

PERSONAL INFORMATION

Beniamino Di Girolamo

High Energy Physicist

WORK EXPERIENCE

June 2024-now

Principal Applied Physicist

CERN – Switzerland

2024-now Technology Department.

- Technical Coordinator for the Technology Department (TE) activities during the Long Shutdown 3 (LS3). In charge of the overall coordination of the groups and teams intervening during the LS3 for the dismantling of the old elements, maintenance and installation of the new elements of the accelerators during the period 2026-2030.
- Member of the LS3 Committee Core Team for the TE activities and as Progress Reporting and Monitoring Officer, in charge of the collection in specialised dashboard of the activities reporting and monitoring with forecasts for managerial steering during the Long Shutdown 3.
- Head of the High Field Magnets Program Office, in charge of budget and collaborations follow-up.
- Member of the CERN team in charge of development of an inspection robotic solution for the LHC Arcs beam screens.

Feb. 2023-May 2024

Dirigente Tecnologo

INFN – Sezione di Milano

Infrastructure Manager of the IRIS project funded by the Italian Ministry for University and Research within the framework of the Italian National Recovery and Resilience Plan implementation of NextGenerationEU funding plans. Member of the Project Steering Committee and chair of the Project Office meetings. Development of the Quality Plan, of the monitoring tools for the Project with a MS Project and Power BI-based implementation of project planning, work and expenditures using EVM techniques. Development of the sustainability plan for the medium- and long-term life of the infrastructure being built. Handover of the activity to a younger colleague.

2001-now

Principal Applied Physicist

CERN – Switzerland (on special leave 01/02/2023-31/05/2024)

2015-2023 HL-LHC project.

- Member of the Project Office and Management Team of the HL-LHC Project as Coordinator of the Collaboration Office in charge of negotiation and follow-up of International Collaborations for in-kind contribution from CERN Member States, Non-Member States and Observer States.
- Deputy Work Package leader for the Technical Infrastructure, Logistics and Civil Engineering for the HL-LHC Project
- In 2020 Chair of the CERN against COVID-19 Task Force. CERN contact person with WHO and World Economic Forum.
- Development of a novel instrument for the detection of nano-radians tilts for the detection of earth movements including studies and development of earthquake early warning systems, The Precision Laser Inclinator. Several devices installed at the Virgo Experiment in Pisa and at LHC service underground galleries for seismic monitoring.
- HL-LHC project contact person for e-cloud suppression measures with active participation to the development of a miniature robotic mole for the transport of a photonic optical fibre for the laser ablation of LHC beam screens surface.
- Scientific Chair of the APPEC, NuPPEC, ECFA Technology Forum dedicated to Robotics in Harsh Environment, scheduled in 2023 in Prague.
- Coordination for the CERN Accelerator and Technology Sector of the impact study for the LHCb Upgrade 2 at high luminosity ($1 \cdot 10^{34} \text{ cm}^{-2}\text{s}^{-1}$).

2013-2015 ATLAS Technical Coordination.

- Technical Coordinator of the ATLAS Experiment during the LHC Long Shutdown 1 (LS1) and start of operation in LHC Run II.
- Coordination of the large ATLAS Project Office Unit with direct supervision of a pool of four engineers

of the ATLAS Project Office and several CERN Users.

- Coordination of 250 work packages executed during the LHC LS1 (2013-2014).
- Management of large Maintenance and Operations and Consolidation budgets.
- Regular reports to the international Resource Review Board, to the LHC Committee and CERN Management. Member of the ATLAS Experiment Management and Executive Board (deputy chair). Chair of the ATLAS Collaboration weekly meetings. Ex-officio member of the ATLAS Collaboration Board. Collaboration work with ~180 institutes from ~40 countries. Member of the CERN Crisis Management Unit.

▪ **2009-2013 ATLAS Pixel Detector Project Leader.**

- Commissioning and operation of the 80 million channels pixel detector (the detector with the largest number of channels in HEP at the time).
- Large scale procurements and management of the budgets for maintenance and operations.
- Reports to the ATLAS Management, member of the ATLAS Executive Board and of the Pixel Detector Collaboration Board. Regular reports to the M&O budget international scrutiny groups.
- Technical and financial coordination of the construction of replacement services (optoboards and cables) for restoring the Pixel detector channels availability.
- B-tagging and tracking studies. Supervision of five CERN fellows and two doctoral students (co-advisor of the two PhD theses).

▪ **2005-2009 Deputy ATLAS Technical Coordinator and activity in forward physics and Inner Detector.**

- Coordination of the procurement and construction of Roman Pots for the ATLAS Experiment for forward physics. Trigger expert for the fibre tracker of the ATLAS Roman Pots installation.
- Development of time-critical configuration databases for the data acquisition of the ATLAS Inner Detector.
- Detector expert for the calibration and commissioning of the ATLAS Pixel detector. Member of the ATLAS Pixel Collaboration Board as CERN representative.
- Deputy ATLAS Technical Coordinator supervising the construction of several parts for the ATLAS Experiment installation in the underground cavern.

▪ **2001-2009 ATLAS Testbeam Coordinator.**

- Organisation of the schedule for beam allocation of all ATLAS sub-detectors on the H6 and H8 lines of the SPS Accelerator North Area at CERN and of the usage of the GIF irradiation facility at CERN.
- Organisation of the ATLAS Combined Testbeam in 2004: a 170-m long setup with all ATLAS sub-detectors with combined readout from front-end to event building with implementation of all three levels of trigger. Coordination of around hundred physicists and organization of 9-month data taking with secondary and tertiary beams (p, m, e, g) from 1 to 400 GeV and primary proton beam at 400 GeV with 25-ns bunches.

▪ **2001-2005 Member of the ATLAS Trigger/DAQ group.**

- Responsible of the DAQ-Detector Interface Group.
- Member of the Trigger/DAQ Steering Committee.
- Expert of run control and configuration databases. Detector monitoring developments.

Business or sector Research

2000-2001 **Assistant Physicist**

University of Bern – Switzerland

- Expert of high-speed networking for the ATLAS Event Building. Study of Higgs decays in supersymmetric invisible particles (neutralinos). Teacher for the Laboratory of hydrodynamics for university students. Supervision of graduate and undergraduate students.

Business or sector Research

1999-2000 **Applied Fellow**

CERN – Switzerland

- Instrumentation of the barrel hadronic calorimeter modules of ATLAS and development of the analysis for the Cs source calibration data. Development of weighting techniques for energy reconstruction in

the e.m. and hadronic calorimetry in ATLAS. Trigger and data acquisition setup for several testbeam periods of the barrel hadronic calorimetry. Characterisation of scintillators, WLS fibre and photomultipliers (including timing and quantum efficiency).

Business or sector Research

1994-1995 **Collaboration grants**

University of Pisa

- Participation to RD34 – Tilecal and ATLAS Experiment: development of timing measurements for the WLS fibres characterisation and for the measurement of absolute quantum efficiency of photomultipliers
- Studies of hadronic and electromagnetic calorimetry instrumented cracks with presentation at the first ATLAS physics workshop in Czech Republic

Business or sector Research

EDUCATION AND TRAINING

1995-1998 **Dottorato di ricerca in fisica nucleare e subnucleare**

PhD

University of Torino – Italy

- Thesis: The BaBar Silicon Vertex Tracker for the CP violation study at PEP-II
- Visiting scientist at Stanford University, SLAC, UC-Berkeley, LBNL, UCSB, University of Pisa, École Polytechnique Palaiseau – France, CERN
- Technical and Safety Coordination of the BaBar SVT testbeams at CERN
- Test of the silicon vertex trackers modules and expert of powering, grounding and shielding
- Participation to the commissioning of the High and Low Energy Rings of the PEP-II accelerator at SLAC with a mini-SVT setup
- Study of charmless pure-penguin B decays ($B \rightarrow K\phi$)

1995 **Corso di Perfezionamento in Fisica**

University of Pisa – Italy

- Participation to proposal for a VLPC-readout scintillating fibres intermediate tracker detector for the CDF experiment at Fermilab
- Measurements of WLS fibres and photomultipliers characteristics for the RD34 – Tilecal project at CERN (then part of the ATLAS Experiment)

1987-1994 **Laurea in Fisica**

MSc

University of Pisa – Italy

- Thesis: Scintillating fibre detectors for high energy physics
- Development and construction of trackers based on scintillating fibres and capillaries filled with liquid scintillators with multi-anode photomultiplier readout
- Characterisation of fibre emitting light in a wide range of wavelengths and of photo-detectors.
- Collaboration with the RD17 project with participation of institutions from France, Japan, Russia, Italy, USA and CERN

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

- Organisational / managerial skills**
- Project management of large facilities with decision power and responsibility for large-value experiment and detectors.
 - Responsible of the safety of a large number (>500) of persons during intervention in underground premises
 - Management of large units at CERN with mixed composition of staff members and collaborators from external institutes, with a mix of physicists, engineers, computer scientists and mechanics and electronics technicians
 - Management of multi-million yearly budgets for the construction, consolidation, operation and maintenance of large facilities and high-reliability detectors operating in harsh environments
- Job-related skills**
- Expert of high-energy physics detectors based on several technologies (silicon detectors, scintillators, trackers, calorimeters)
 - Developer of time critical processes in data acquisition and trigger
 - Developer of micro-robotics and embedded processors projects (Arduino, Raspberry PI, ESP32)
 - Expert of lasers and nano-radians precision metrology
 - Monte Carlo physics simulation
 - Monte Carlo simulation for project management (PERT)
 - Decision making, crisis management, application of standard and agile project management techniques
 - Expertise in large procurements and setup of production lines for a variety of electronics product for high-energy physics experiments
 - Earned Value Management, Quality Plans and detailed planning for large projects
- Computer skills**
- Expert user of Microsoft Office tools (advanced user of Excel and power queries)
 - Expert user of Microsoft Project and PowerBI
 - MS-DOS, Windows, MacOS, UNIX, Linux operating systems advanced user and system manager
 - FORTRAN77, JAVA, C, C++, Python and PHP programmer

ADDITIONAL INFORMATION

- Publications**
- Author of around 900 scientific articles published on peer-reviewed journals. Eight articles as single author and thirty-seven with ten co-authors or less. h-index 126 (Scopus) – 172 (Google Scholar), i10-index 471
 - Author of several technical and conceptual design reports in high energy physics and for the CERN accelerator sector
- Referee**
- Referee of large high energy physics projects for the UK Science and Technology Facilities Council and Research and Innovation (STFC & RI) and for the Swiss National Foundation (SNF)
 - Referee of several physics and instrumentation international journals



Enrica Chiadroni - Curriculum Vitae

Academic Appointments

I am currently, since September 2021, an **Associate Professor** at the *Department of Basic and Applied Sciences for Engineering* at *Sapienza University of Rome*.

Before my current position, I served as a **Senior Scientist** at the *Laboratori Nazionali di Frascati (LNF) – Istituto Nazionale di Fisica Nucleare (INFN)* until August 2021. Since January 2011, I have worked as a staff scientist at the **SPARC_LAB Test Facility** of LNF, where I coordinated the **Machine Operation of the SPARC photo-injector** from January 2015 to June 2018. Within SPARC_LAB, I have been the reference person for the **THz radiation source**, which was included in the *CalipsoPlus* program until October 2021.

Previous Positions and Research Activities

I have been a member of the **SPARC group** at LNF since March 2001, when I began my Master's thesis in Physics with a study on **Free-Electron Lasers (FELs)**. I obtained my Master's degree in June 2002 from *Sapienza University of Rome* and subsequently earned my **Ph.D. in Physics** from *University of Rome Tor Vergata* in April 2006, with a dissertation on **Bunch Length Characterization at the TTF VUV-FEL**.

Throughout my career, I have developed significant expertise in **radiation-based techniques** for measuring both transverse and longitudinal beam properties. I have collaborated with **DESY** on an experiment—partially funded by *INFN-CSN5*—to measure **beam emittance** using **Optical Diffraction Radiation** in a non-intercepting configuration at **FLASH (DESY, Hamburg)**.

From 2013 to 2015, I served as **Local Coordinator** of *SL_Femtoter*, an *INFN-CSN5*-funded experiment for the development and application of a **high peak power THz source** at SPARC_LAB, leading to the first **user experiments** at the facility. In 2013, I was an **invited speaker** at the *38th International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz 2013)*, presenting “*The SPARC_LAB High Peak Power THz Source: Different Methods of Generation and Characterization.*”

Research Coordination and Funded Projects

In 2013, I was awarded a **FIRB 2012 grant**, a three-year research fund from the *Italian Ministry of Research* to develop **plasma-based acceleration experiments** for high-brightness electron beams at SPARC_LAB, where I served as **Principal Investigator** for the plasma acceleration activities.

From 2015 to 2023, I served as **National Coordinator** of the *SL_COMB* and *SL_COMB2FEL* experiments—both *INFN-CSN5*-funded—focused on the **characterization, manipulation, transport, and application** of plasma-based accelerators driven by **high-brightness multi-bunch**



trains at SPARC_LAB for SASE FEL applications. These projects achieved major milestones, including the **proof-of-principle demonstrations** of the **first SASE and Seeded FELs driven by a Plasma Wakefield Accelerator (PWFA)**.

I have delivered several **invited talks** at international conferences, including:

- *13th International Particle Accelerator Conference (IPAC2022)* – Plenary Talk: “*Progress Towards Demonstration of a Plasma-Based FEL*”
- *9th International Particle Accelerator Conference (IPAC2018)* – Parallel Session: “*Status of Plasma-Based Experiments at the SPARC_LAB Test Facility*”
- *3rd European Advanced Accelerator Concepts (EAAC2017)* – Plenary Talk: “*Overview of Plasma Lens Experiments and Recent Results*”

I am currently the **National Coordinator** of *SL_BetaTest* (2024–2027), a four-year INFN-CSN5-funded experiment aimed at demonstrating a **plasma-based undulator** using **betatron radiation**.

In 2015, a **bilateral project** under the *ASRT (Egypt)–INFN* cooperation agreement, titled “*THz Radiation for Medical and Other Applications in Egypt, Italy and Beyond*,” was approved for funding, where I served as the **INFN corresponding person**.

From November 2015 to December 2018, I led **Work Package 5 – Electron Beam Design and Optimization** within the **EU-funded EuPRAXIA Design Study**, aimed at developing a **plasma-based user facility**. Since November 1, 2022, I have been **Co-Leader of Work Package 11 – Applications** in the **EuPRAXIA Preparatory Phase (EuPRAXIA-PP)** project, also funded by the EU.

Within the Italian pillar **EuPRAXIA@SPARC_LAB**, I serve as **Leader of the working area** focusing on the **injector and ancillary components** and as **responsible author** of the **Injector Chapter** in the *Technical Design Report*.

I have been a **Member of the Steering Committee and Collaboration Board of EuPRAXIA** (Nov 2015 – Dec 2018) representing INFN, and I am currently a **Member of the Steering Committee of EuPRAXIA-PP**, representing Sapienza University, included in the *ESFRI 2021 Roadmap*.

Since March 2025, I serve as **Sapienza University Representative** for the EU-funded *PACRI Project* (2025–2029).

Conference Organization and Scientific Committees

I have been a **Member of the Scientific Advisory Board** of the *International Particle Accelerator Conference (IPAC)* since 2018, contributing to editions including IPAC2021–2023. Since June 2017, I have been a **Member of both the Scientific Program Committee (SPC) and the International Organizing Committee (IOC)** of the *LINAC Conference*.



Since May 2023, I have served as a **Board Member** of the *Accelerator Group of the European Physical Society (EPS-AG)*, and since January 2025, as a **Member-at-Large** of the *American Physical Society (APS) Division of Physics of Beams (DPB)*.

I chaired the **Scientific Program Committee** of the *6th European Advanced Accelerator Concepts (EAAC2023) Conference* (La Biodola, Isola d'Elba, Italy, September 17–23, 2023). Currently, I am a member of the **IOC and SPC** for:

- *IPAC'25* (Chair of MC1 – Novel Particle Sources and Acceleration Techniques)
- *IPAC'26* (Chair of MC3 – Alternative Particle Sources and Acceleration Techniques)
- *IPAC'27 (Observer of MC3 – Alternative Particle Sources and Acceleration Techniques)*
- *AAC'26*
- *LEDS'26*

Additionally, I have contributed to the organization of numerous international conferences, including:

- 2009 – Chair, *Working Group on Manipulation and Diagnosis of High-Brightness Beams*, Workshop on *The Physics and Applications of High-Brightness Electron Beams*, Maui (Hawaii);
- 2015 – Co-Chair, *SPIE Optics+Optoelectronics Conference*, Prague, session on *Novel Source Developments*;
- 2015 – Co-Chair, *2nd EAAC Conference (EAAC2015)*, Working Group on *High-Gradient Plasma Structures and Advanced Beam Diagnostics*.

I have served on the **Local Organizing Committees (LOC)** of: *Channeling* (2012, 2014, 2016, 2018), *CERN School on Excellence in Detectors and Instrumentation Technologies (EDIT2015)*, *1st EAAC* (2013), *3rd ICFDT* (2013), *5th ICFDT* (2018), and the *Physics and Applications of High-Brightness Beams Conference* (Crete, 2019).

I was also a **Program Committee Member** of *SPIE Optics+Optoelectronics (2015)*, session on *Advances in X-ray Free-Electron Laser Instrumentation*.

Other Teaching Experience and Supervision

I have been a **lecturer** at the *CERN Accelerator School (CAS)* in Geneva (Nov 2015) and Hamburg (June 2016), teaching on **High-Brightness Photo-injectors**, at the *International School of Particle Accelerators (Erice, 2023)* and at the *IPAC 2023* in Venice in the Student Tutorial program (2023) where I delivered two lectures on **Plasma Acceleration**.

I have supervised several **Master's and Ph.D. theses** and currently serve as a **Member of the Doctoral Board (Collegio Docenti)** for the *Ph.D. program in Accelerator Physics* at *Sapienza University of Rome*.



Publications and Scientific Impact

I am the co-author of **more than 250 papers** in international, peer-reviewed journals, including several in *Nature* journals, such as:

- W. Ackermann et al., *Nature Photonics* 1, 336–342 (2007);
- F. Giorgianni, E. Chiadroni et al., *Nature Communications* 7, 11421 (2016);
- R. Pompili et al., *Scientific Reports* 6, 35000 (2016);
- R. Pompili et al., *Nature Physics* 17 (4), 499–503 (2021);
- R. Pompili et al., *Nature* (2022), DOI: 10.1038/s41586-022-04589-1.

My research spans **high-brightness beam dynamics, FEL physics, linac-based THz radiation sources, beam diagnostics, and advanced acceleration techniques.**

On May 23, 2023, I obtained the **Italian National Scientific Qualification as Full Professor** in the disciplinary field 02/A1 – *Experimental Physics of Fundamental Interactions* (Academic Recruitment Field 02/A – Physics of Fundamental Interactions), under *Ministerial Decrees 553/2021* and *589/2021*.

My current **h-index is 37** (Scopus).

Peer Review and Scientific Evaluation

I regularly serve as a **reviewer** for *Nuclear Instruments and Methods in Physics Research*, *Journal of Applied Physics*, *Physical Review Letters*, *Physical Review Accelerators and Beams*, and *Journal of Modern Optics*.

I have also acted as a **reviewer for research and development proposals** submitted to the *Science and Technology Facilities Council (STFC)* and the *Helmholtz Association* (for the *Helmholtz Young Investigators Groups* program).

In October 2023, I was appointed **External Reviewer** for the **Scientific and Technological Objectives** of the *CERN AWAKE Project*.

Rome, 10/02/2026

Curriculum vitae di Veronica VALSECCHI

Contratti per attività tecnologiche presso Istituto Nazionale di Fisica Nucleare	
01/01/2023 –	Tecnologo II livello professionale a tempo indeterminato Bando 26026/2023 – Concorso per titoli ed esame colloquio Sede di lavoro: Sezione INFN di Milano Bicocca, Piazza della Scienza 3 - 20126 Milano – Italia
01/05/2019 – 31/12/2022	Tecnologo III livello professionale a tempo indeterminato Vincitrice bando 20485/2018 – Concorso per titoli ed esami Sede di lavoro: Sezione INFN di Milano Bicocca, Piazza della Scienza 3 - 20126 Milano – Italia <i>Attività: coordinamento e supporto professionale alla scrittura e presentazione dei progetti nazionali, regionali e locali e dei relativi bandi, scouting delle competenze scientifiche e tecnologiche allo scopo di promuovere collaborazioni scientifico-tecnologiche con le imprese. Coordinamento e supporto professionale alle attività degli Uffici Fondi Esterni locali per i progetti regionali e nazionali di interesse dell'Istituto.</i>
06/10/2018 – 30/04/2019	Tecnologo III livello professionale a tempo determinato Chiamata diretta ai sensi dell'art. 20, del Decreto Legislativo 4 giugno 2003, n. 127, con contratto a tempo determinato per specifici progetti di ricerca Sede di lavoro: Sezione INFN di Milano Bicocca, Piazza della Scienza 3 - 20126 Milano – Italia <i>Attività: Progettazione e supporto a programmi di tipo bottom-up e mobilità dei ricercatori: ERC, FET, MSCA; docenza in corsi di formazione per i giovani ricercatori sulla scrittura di progetti europei del pilastro Excellent Science di Horizon2020; collaborazione e coordinamento con le attività del Comitato Nazionale Trasferimento Tecnologico</i>
06/10/2015 – 05/10/2018	Assegno di ricerca tecnologica (Senior) Vincitrice, bando 17497/2015 Sede di lavoro: Sezione INFN di Milano Bicocca, Piazza della Scienza 3 - 20126 Milano – Italia <i>Attività: "Sviluppo e supporto alle realizzazione di progetti scientifici in ambito europeo, nazionale e regionale"</i>
04/10/2013 – 03/10/2015	Assegno di ricerca tecnologica (Junior) Vincitrice, bando 15815/2013 Sede di lavoro: Sezione INFN di Milano Bicocca, Piazza della Scienza 3 - 20126 Milano – Italia <i>Attività: "Sviluppo e supporto alle realizzazione di progetti scientifici in ambito europeo, nazionale e regionale"</i>

Elenco degli incarichi di responsabilità o coordinamento	
01/08/2025 –	Direttore Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
01/02/2023 – 18/12/2025	Vice Direttore Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
01/02/2023 – 18/12/2025	Responsabile Servizio Progetti Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
24/12/2022 –	Componente del PNRR Governing Board e Responsabile del Project Management Office del PNRR e fondi complementari (PMO – PNRR)
23/12/2022 – 1/12/2025	Responsabile Ufficio Project Management Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
01/12/2022 –	Responsabile del WP1, Project Management – Progetto Kilometer Cube Neutrino Telescope for Recovery and Resilience – KM3NeT4RR Progetto finanziato su fondi PNRR, Avviso 3264/2021, Missione 4 “Istruzione e Ricerca” - Componente 2 “Dalla ricerca all’impresa”, Linea di investimento 3.1, “Fondo per la realizzazione di un sistema integrato di infrastrutture di ricerca e innovazione” Importo finanziato: 67,186,973.06 €, INFN coordinatore di altri 8 Enti/Università
01/08/2021 – 31/01/2023	Responsabile Servizio Progettazione Nazionale Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
21/12/2018 – 31/07/2021	Responsabile Ufficio Ricerca di Eccellenza Servizio Progettazione Bandi Internazionali – Divisione Fondi Esterni – Direzione Servizi alla Ricerca, Amministrazione Centrale INFN
Elenco dei ruoli di servizio	

18/07/2022	Componente Commissione esaminatrice del concorso di cui al bando n° 24253/2022 per titoli ed esami relativo ad un posto di V livello professionale con profilo di Funzionario di Amministrazione dell'INFN, sede di lavoro Laboratori Nazionali del Gran Sasso
21/06/2021	Componente Commissione esaminatrice, esperta della materia, del concorso Cod. 21PTA006, per titoli ed esami relativo ad un posto di Tecnologo di secondo livello, Categoria D, posizione economica D3 per le esigenze dell'Area della ricerca dell'Università di Milano Bicocca, nell'ambito della "Valorizzazione delle attività di ricerca nell'ambito dei domini applicativi del programma di finanziamento ERC
27/09/2020 –	Rappresentante del Personale Tecnologo per la Sezione di Milano Bicocca, INFN
10/06/2020 – 31/07/2022	Componente Commissione esaminatrice per la selezione dei candidati al fine dell'attribuzione di assegni di ricerca e borse di studio, banditi per il progetto Pignoletto: "Monitoraggio del territorio e l'agricoltura di precisione mediante sistemi a pilotaggio remoto" – POR FESR Regione Lombardia 2014 – 2020. La Commissione ha gestito procedure relative a 6 bandi per assegno di ricerca per attività scientifica o tecnologica, e 8 bandi per borsa di studio ad indirizzo scientifico e tecnologico.
22/05/2020	Componente Commissione esaminatrice del concorso di cui al bando n. 21547/2020 per titoli ed esami relativo ad un posto di VII livello professionale con profilo di Collaboratore di Amministrazione dell'INFN, sede di lavoro Milano Bicocca
03/2020 – 07/2020	Componente del gruppo di lavoro APRE su European Innovation Council partecipazione in particolare al sotto-gruppo "Pathfinder for Advanced research" – Agenzia per la Promozione della Ricerca Europea
Ruoli in progetti scientifici e collaborazioni internazionali	
01/12/2022 –	Responsabile del Work Package Project Management, Progetto PNRR " Kilometer Cube Net for Recovery and Resilience" - KM3NeT4RR
07/2022 –	Membro della Collaborazione internazionale Kilometer Cube Neutrino Telescope – KM3NeT

Istruzione	
01/2016 – 07/2017	Master di secondo livello in Management of Research, Innovation and Technology, IV edizione - Voto finale 110/110 e lode Consorzio MIP, Politecnico di Milano, Graduate School of Business - Via Lambruschini 4C, 20156 Milano - Italia Titolo tesi: "Approcci di Open Innovation in istituti di ricerca, in particolare nell'ambito dei progetti collaborativi di Horizon 2020" L. Fagarazzi (Università Cà Foscari di Venezia), V. Valsecchi (INFN)
12/2008 – 03/2013	Laurea Magistrale in Fisica, Applicata all'Ambiente e alla Medicina - Voto finale 110/110 e lode – Università degli Studi di Milano Bicocca - Piazza della Scienza 3, 20126 Milano – Italia Titolo Tesi "Cone beam CT in Radiotherapy: image quality, dose and replanning" Relatore: Dott. Ezio Previtali, INFN – Sez. Milano Bicocca; Correlatore: Dott. Alberto Torresin, Direttore della Struttura Complessa di Fisica Sanitaria dell'Ospedale Niguarda Cà Granda, Milano La tesi ha comportato un anno di esperienza presso l'Ospedale Niguarda Cà Granda di Milano Nota: durante il periodo indicato ho avuto una esperienza lavorativa a tempo pieno, non inerente gli studi
09/2005 – 12/2008	Laurea Triennale in Fisica, percorso in Fisica Applicata all'Ambiente – Voto finale 110/110 e lode - Università degli Studi di Milano Bicocca - Piazza della Scienza 3, 20126 Milano – Italia Titolo Tesi: "Ottimizzazione strumentazione di misura a bassa radioattività basata su rivelatori al Germanio operanti in coincidenza" – Relatore: Dott. Ezio Previtali, INFN – Sez. Milano Bicocca
Certificazioni professionali	
17/07/2015	Istituto Italiano di Project Management, Viale Regina Margherita 306, Roma (RM) - Italia <i>Project Manager</i> - certificazione ISIPM-Base coerente con le normative di riferimento per la gestione dei progetti UNI ISO 21500 e UNI 11648
Pubblicazioni	
16/12/2022	"Technology transfer from procurement relationships in big science contexts" Martina dal Molin; Deepa Scarrà; Andrea Piccaluga; Veronica Valsecchi (2022) – <i>Industry and Higher Education</i> Documento di riferimento: https://doi.org/10.1177/09504222221145434
17/06/2019 – 21/06/2019	"Big Science, technology transfer and industry: evidence from a collection of case studies" Dal Molin, M., Scarrà, D. and Valsecchi, V. (2019) Presentazione finale e <i>Full paper</i> , R&D Management Conference "The Innovation Challenge: Bridging

	<i>Research, Industry and Society” Paris, France</i>
2019	“Horizon 2020 - European research funding” V. Valsecchi, 2019 – Il Nuovo Cimento 42 C – Proceedings, 17th Incontri di Fisica delle Alte Energie, 4-6 April 2018 (IFAE 2018) – (DOI: 10.1393/ncc/i2019-19217-4)
2017	“Approcci di <i>Open Innovation</i> in istituti di ricerca, in particolare nell’ambito dei progetti collaborativi di <i>Horizon2020</i>” - Project Work, Tesi finale del Master MIT

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e ai sensi dell' Art. 13 GDPR 679/16.

Gianluca Cavoto

Curriculum Vitae

Roma, set 2025

Part I – General Information

Full Name	Gianluca Cavoto
E-mail	gianluca.cavoto@uniroma1.it
Web page	https://sites.google.com/uniroma1.it/gianlucacavoto-eng/home?authuser=0
Spoken Languages	Italian, English, French

Part II – Education

Type	Year	Institution	Notes
Master graduation	1998	Dip.Fisica Sapienza	Thesis title: “ <i>CP Violation at BaBar: isospin analysis for $\sin 2\alpha$ measurement</i> ” (110/100 e lode)
Post-graduate studies	1998	INFN Sezione di Roma	Borsa per laureati
PhD XIV ciclo	1998-2001	Stanford Linear Accelerator Center	About 1.5 year with the BaBar experiment at SLAC
PhD graduation	2002	Dip. Fisica Sapienza	Thesis title: “ <i>Measurements of Branching Ratios and CP violating asymmetries in $B \rightarrow \pi\pi$ and $B \rightarrow K\pi$ decays with the BaBar experiment</i> ”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2024		Dip. Fisica Sapienza	Full professor
2016	2024	Dip. Fisica Sapienza	Associate professor

IIIB – Other Appointments

Start	End	Institution	Position
2005	2016	INFN Roma	Permanent Staff Researcher
2002	2004	Princeton University	PhD Staff Researcher (R.H. Dicke Fellow)
2002	2005	Dip.Fisica Sapienza	Research associate
2014			Abilitazione Nazionale <i>Associate prof.</i> 02/A1 FIS-01
2018			Abilitazione Nazionale <i>Full professor</i> 02/A1 FIS-01

Part IV – Teaching and tutoring experience

I am teaching experimental physics courses for the Master in Physics at Sapienza (LM-17). Every year about 80 students attend my laboratory classes.

I was one of the proponents and now one of the managers of the *Lasca* program aiming at establishing a new European Joint Master degree in Accelerator Physics.

I directly supervised **10 PhD students**, I was supervisor or co-supervisor of **more than 20 master (laurea)** students. Some of my PhD students are now permanent researchers (E.Di Marco, M.Pelliccioni, F.Renga at INFN, E.Ripiccini at EPFL). On average I was supervisor of about **two post-doc per year** in the last 5 years – some of them are now permanent INFN staff researchers (L.Bandiera, F.Iacoangeli, A.Mazzolari).

Currently I also lead the **Job Placement** committee of the Physics department and I am responsible for stages (“*tirocini*”) of students at our Physics Department.

Year	Institution	Lecture/Course
2023	Facoltà di SMFN	Organization of the Career day for Science students at Sapienza
2020- now	Dip.Fisica Sapienza	Job Placement activity: organization of seminars by companies for students, contacts with the stakeholders of the Physics courses
2021- now	Dip.Fisica Sapienza	Sapienza coordinator for the <i>Lascaia</i> Erasmus Mundus Joint Master degree in Accelerator Physics
2017- now	Dip.Fisica Sapienza	Responsible of the Laboratory for Nuclear and Subnuclear Physics for master students in Physics.
2020- now	Dip.Fisica Sapienza	Mini-courses for <i>percorsi di eccellenza</i> (Physics bachelor)
2018- now	Dip.Fisica Sapienza	Physics Laboratory I and II (15 CFU, cv in <i>Particle and Astroparticle Physics</i> , now <i>Fundamental Interactions: Theory and experiment</i> , in English)
2017-2018	Dip.Fisica Sapienza	Physics Laboratory I and II (cv in <i>Particle and Astroparticle Physics</i> , 18 CFU – in English)
2018- 2019	Dip.Fisica Sapienza	Fisica per CTF (1 CFU)
2016-2017	Dip.Fisica Sapienza	Fisica per Farmacia (8 CFU)
2009- now	Dip.Fisica Sapienza	Tutor for groups of students in the Laboratory for Nuclear and Subnuclear Physics
2004-2007	Dip.Fisica Sapienza	Four semesters co-teaching general physics, mechanics and laboratory courses.
2000-2001	Dip.Fisica Sapienza	Three Semesters co-teaching general physics and particle physics

Part V – Coordination roles, society memberships, awards, honors.

Year	Title
2023- 2026	Joint Laboratories WG coordinator for Spoke 8 PE4 NQSTI (National Quantum Science and Technology Institute)
2023- 2026	Scientific contact of PE4 NQSTI (PNRR) in spoke 8 for Sapienza
2023- now	Coordinator of the scientific collaboration between Sapienza and Princeton Physics departments on carbon nanostructure for hydrogen and tritium loading

2023- now	<i>Responsible</i> of the joint INFN-Sapienza laboratory “TITAN- <i>Technology Innovation Through Advanced Nanostructures</i> ” for the Department of Physics.
2021- 2025	<i>Coordinator</i> of the Ptolemy WG for the cosmological neutrino target (graphene-based)
2021- now	<i>Member</i> of the management board of the aMUSE project – advanced Muon Campus in US and Europe
2021- now	<i>Member</i> of the management board of the Lascala Erasmus mundus project
2021- now	<i>Member</i> of the Sapienza task force for Task Force Erasmus Mundus Joint Master Degree
2021	<i>Responsible</i> of the laboratory “ <i>Nuovi Rivelatori</i> ” at the Department of Physics.
2021- now	<i>Chair</i> of the Steering committee of the <i>Amaldi Research Center</i> at Dip. di Fisica Sapienza
2020- now	<i>Chair</i> of Job Placement committee of Dipartimento Fisica - Sapienza
2018- now	Member of the collaboration board of the PTOLEMY collaboration and PI of the INFN Roma group
2024- now	Chair of the collaboration board of the PTOLEMY collaboration
2018- now	Member of the Physics Beyond collider WG’s (Technology, Fixed target and BSM physics)
2018-2020	Coordinator of Light Dark matter WG PTOLEMY collaboration
2018-2020	Member of Job Placement committee of Dipartimento Fisica - Sapienza
2019- now	Member of the Advisory board for new ERC grantees – Dipartimento Fisica Sapienza
2018-2021	Member of the Steering comm. of the <i>Amaldi Research Center</i> at Dip. di Fisica Sapienza
2018- now	Member of the JUAS (Joint Universities Accelerator School) Advisory Board
2016- now	Member of the board of teachers of the Ph.D. school in Accelerator Physics at Sapienza.
2017- now	Member of various selection committees for RTD-A, RTD-B, INFN researchers
2010-2018	INFN member in the Executive Board of the UA9 collaboration
2010-2018	Member of the Editorial Board of the UA9 collaboration
2010-2013	MEG Physics Coordinator
2008- now	MEG and MEG-II Shift Coordinator
2012-2014	INFN Premio Resmini and Premio Conversi committee member
2009-2011	INFN Researchers representative in Consiglio di Sezione at INFN Roma
2007-2009	Convenor for Heavy Flavour Averaging WG (<i>HFAG</i>) for Particle Data Group
2004-2008	Chairs of several Babar internal review committees
2004-2006	Chairman of Italian BaBar Physics Committee
2005- now	Physics Review Letters, Physics Review D, Physics Letters B and IEEE Transactions on Nuclear Science, JHEP referee
2000-2004	Charmless B decays and Charmless Twobody B decay analysis WG convenor
2000-2002	BaBar Tracking Efficiency WG convenor
2003	BaBar IFR Operation manager

Part VI - Funding Information

Principal Investigator: **PI**; Member of the management board: **Co-PI**; Component: **I**

Year	Title	Program	Grant value[keuro]
2023-2025	Spoke 8 Tech transfer	PE4 NQSTI (PNRR)	~100
2023- 2025	<i>ShareScience</i> con la scuola e	Progetto Terza Missione Sapienza	11

	con l'industria/ PI	(con Facoltà di SMFN)	
2022- 2024	CNT for composite materials/ Co-PI	Progetto di Ateneo Sapienza	50
2022- 2025	Andromeda/ Co-PI	MUR PRIN 2020	217
2025-2027	PACE/ Co-PI	MUR PRIN 2022	~30
2022- 2024	Ptolemy/ Co-PI	INFN CNS5	~200
2021- 2025	aMUSE/ Co-PI	H2020-MSCA-RISE-2020	150
2018-2022	Amaldi Research Center/ PI (since 2021)	MUR	10000
2021- 2030	Lascala/ Co-PI	EU Erasmus	~9000
2021-2022	NanoBio/ PI	Progetto di Ateneo Sapienza	13
2017- now	Phys Lab for master students/ PI	Finanziamento ordinario Sapienza	20/year
2019-2020	NanoUV/ Co-PI	EU Attract	100
2019-2021	Ptolemy/ Co-Pi	Ptolemy/ Co-Pi	200
2025-2027	Ptolemy/ Co-Pi	Ptolemy/ Co-Pi	50
2014-2019	CRYSBEAM/ PI	EU ERC Consolidator Grant	2000
2017-2019	CNT for Dark Matter/ PI	Grande Progetto di Ateneo Sapienza	53
2016-2017	Dcant/ PI	INFN CNS5	55
2010-2014	Crystal channeling for future accelerators/ PI	FIRB-MIUR	303
2009-2019	INFN UA9/ PI	INFN CNS1	1100
2010-2013	EuCard WP8/ I	EU FP7	40
2008-2009	Super B project and LFV/ I	Royal Society	8
2006-2008	INFN Roma H8RD22/ PI	INFN Special projects	60
2007-2008	Crystal channeling/ I	PRIN/MIUR	30

Part VII – Research Activities

My research activity started with the study of *CP* violation in the *B* meson weak decays and in the search for indirect signs of physics beyond the Standard Model in flavour physics (**BaBar** collaboration -about **500 people** - from 1997 to 2012).

I was the main author of the analysis that lead to the discovery of direct *CP* violation in *B* decays in 2004.

Extending the realm of search for New Physics phenomena in particle physics has been the goal of my more recent scientific activity. I have been a member of the **MEG** international collaboration – about **50 people** - since 2007, striving for observing charged lepton flavor violation (**cLFV**) with the ultra-rare decay μ into $e\gamma$ at the Paul Scherrer Institut (Switzerland). During the 2010-2013 period I was the Physics coordinator of MEG, leading the effort of data-analysis and of the publication of the highly cited MEG results setting various world record limits on the existence of cLFV.

Since no evidence of cLFV has been found and given the vast interest of the community, I joined the **MEG-II** collaboration for the upgrade of the MEG detector. I have now a primary role in designing novel detectors for future and even more ambitious project for cLFV searches (**aMUSE** project). One of my former student F.Renga (now INFN permanent researcher) is now leading this effort.

I have recently proposed to MEG-II the experimental study of the hypothetical **X(17)** particle proposed to explain an exotic phenomenon in p Li and p ^3H nuclear reaction.

Very recently I joined the **muonEDM** collaboration.

At the same time, I started to be interested in the developments of **new tools** for experimental particle physics, in particular experiments in the physics of the particle accelerators.

During the last decade the High Luminosity LHC project (HL-LHC) at CERN was approved with the aim of adding higher sensitivity to the search for new physics phenomena at the high energy frontier. During the 2009 – 2019 period I was the leader of the INFN team (**15 people**) in the **UA9** international collaboration (about 50 people in total) – aiming at demonstrating the bent crystal collimation at the CERN SPS accelerator in view of extending it to the HL-LHC. A successful demonstration of it appeared in several publications.

During those years I developed the idea of using special bent crystals for the **extraction** of the 7 TeV **LHC proton (or ion) beam** to measure cross sections relevant for the study of **Ultra-High energy cosmic rays**. This was financed during the 2014-2019 period with the **ERC Consolidator Grant CRYSBREAM** (<http://crysbeam.roma1.infn.it/>). I lead a team of **about 10 people** that primarily focused on the development and characterization of long bent crystals for both the SPS and the LHC beam extractions and on detectors for the extracted beam monitoring, now installed at the LHC and SPS machines at CERN.

A landmark success of this research was obtained in 2016 in the context of the UA9 collaboration with the observation of crystal channeling at the LHC.

The use of bent crystal for high energy beam extraction is now an affirmed experimental tool at CERN and in other laboratories, as witnessed by the Physics Beyond Collider program (<https://indico.cern.ch/event/827066/timetable/>). CRYSBREAM-type bent crystals are being considered for various fixed target experiments in the next decade and for heavy baryon magnetic and electric dipole moments measurements at the SPS and the LHC. In particular, I was involved as advisor of the ERC CoG SELDOM proposing to study of EDM of heavy baryons at the LHC with bent crystals - which I initially produced with CRYSBREAM.

More generally, important advances in the physics of charged particle coherent interaction were obtained thanks to CRYSBREAM and UA9. Crystals are even considered as targets for the muon production in the LEMMA scheme for the futuristic muon collider – a project I have recently given a contribution in studying the on-threshold muon production and the thermo-mechanical stability of targets for muon production from positrons.

I am now a member of the international advisory board of the *Channeling* conference and L.Bandiera and A.Mazzolari, former post-docs with CRYSBREAM, are now permanent INFN researchers, leading various projects advancing in the technological transfer of the use crystal as collimators and in the study of crystals as radiation sources.

In the last years I move forward to port this **coherent interactions concept** to a different realm, proposing innovative detectors of the elusive dark matter particles. I then proposed **light dark matter** detection scheme based on **aligned carbon nanotubes (CNT)**. First pilot projects were financed and some early results obtained on this. I am now leading a group including condensed matter and particle physics experts that studies carbon nanostructure for a variety of applications, including the development of graphene-based target to host tritium atoms for the Cosmic Neutrino Background detection (CNB). I became part of the **PTOLEMY collaboration** that aims at developing a full detector for neutrino mass and CNB searches.

While aligned Carbon nanotubes are being studied as a promising tool for light DM directional detection, I am also involved in the development of a gas TPC prototype for DM directional detection – the CYGNO and INITIUM projects, also financed by the an ERC CoG with E.Baracchini as PI, one of my early students.

I currently co-lead a dedicated laboratory (TITAN lab) for the development of new detectors where an advanced facility for carbon nanostructure synthesis is operational. We study several applications of CNT beyond the particle physics as enhanced sensitivity biosensors, anti-microbial surfaces, novel composite materials, additive manufacturing with CNT, sensors for UV light for environmental applications, hydrogen storage.

One key development is the study of **tritium** storage on carbon nanostructure for the Ptolemy demonstrator from theoretical and experimental point of view.

The development of new detectors for extra-terrestrial particles is conducted also in collaboration with the Amaldi Research Center of the department of Physics - an interdisciplinary Center for Gravitational Physics and Astrophysics – that I have been leading since 2021.

Dark Matter detection		
2019- now	Light DM, carbon nanotube for particle detectors	Development of a detector prototypes based on CNT to detect UV light and light DM (ATTRACT project NanoUV and PRIN 2020 Andromeda)
2018- now	Light Dark Matter, Cosmological neutrinos, carbon nanotubes, graphene	PTOLEMY project, develop of a demonstrator for cosmological relic neutrinos detection based on a tritium-doped graphene target. New electromagnetic field filter concept, graphene studies, hydrogen-loading
2017- now	Directional Dark Matter search, Time Projection Chamber	CYGNO project, develop a demonstrator for directional dark matter searches with optically readout gas TPC using GEM amplification
2016- now	Directional Dark Matter search, Time Projection Chamber	member of the CYGNUS proto-collaboration for the development of a directional dark matter searches with a 1000 m ³ gas TPC
2017	Sub-GeV DM detection, CNT	First proposal to use CNT as target for MeV mass dark matter particles
2016-2017	DM detection	White papers on future research on Dark matter
2016-2018	Gas TPC, GEM, optical readout	CYGNUS–RD project – operation of an optically readout of GEM for a He-based TPC gas detector for low mass and directional dark matter searches
2016-2017	Ion channeling, CNT	DCaNT project - demonstrator of carbon ion channeling in carbon nanotubes with a TPC-GEM. Development of a low pressure negative ion TPC prototype. First tests of a CNT target with a ultrarelativistic beam
2016	Axion detection	STAX Project – proposal of axion-like particle detection in the micro-wave range. Sensors for sub-THz single photon detection, testing of SQUID device for a TES sensor readout
2015	Directional dark matter detection	Proposal of a new scheme of detection of galactic dark matter WIMP direction exploiting coherent interactions in carbon nanotubes

Lepton Flavour violation		
2022- now	μ EDM search	Member of the muonEDM collaboration
2007- now	$\mu \rightarrow e\gamma$ search	Member of the MEG and MEG-II collaboration
2017- now	$\mu \rightarrow e\gamma$ search	Future $\mu \rightarrow e\gamma$ experiments with higher intensity beams
2012-2017	$\mu \rightarrow e\gamma$ search	MEG upgrade (DCH upgrade project, active target project)
2016-2017		Study of LFV at FCC-hh collider
2009-2012	$\mu \rightarrow e\gamma$ search	Main author of the MEG data analysis (Physics coordinator, about 20 people working group)
2013		Proposal to use IRIDE machine for LFV measurements
2008-2009	$\mu \rightarrow e\gamma$ search	MEG detector commissioning (Timing counter calibration)

Accelerator Physics		
2022-now	Muon Collider	Member of the Muon collider international collaboration (target studies) and RD_MUCOLL INFN project
2017-2021	Muon collider	member of the LEMMA collaboration, muon detection and production on threshold, crystalline target studies, thermomechanical studies
2018	Crystal beam extraction	Demonstration of various crystal aided schemes of SPS beam extraction
2018	SPS beam dump experiment	SPS extracted beam time structure study for future beam dump experiments
2017-2018	LHC beam extraction	Large bending crystals for LHC 7 TeV beam extraction productions and tests.
2017	LHC collimation	Demonstration of LHC ion and proton beam crystal collimation (UA9 collaboration)
2017	Beam loss monitor	Development of a pixelated diamond detector (segmented beam loss monitor)
2016-2017	Channeling	Study of elastic and inelastic hadronic interaction in channeling condition
2016-2017	Crystal beam extraction	Studies of focusing crystal for a double crystal beam extraction scheme
2016	Crystal beam extraction	First study of crystal-aided slow extraction at SPS
2015	Channeling, LHC	Observation of channeling of 6.5 TeV protons at the LHC in bent crystals
2011	Crystal collimation, LHC	Proposal of extension of crystal collimation tests to the LHC
2010-2013	Crystal collimation, coherent interaction in crystals	Demonstration of crystal channeling collimation feasibility in SPS , innovative crystal production and tests
2006-2019	Crystal collimation, coherent interaction in crystals	Member of H8-RD22 and UA9 collaborations: crystal channeling and related phenomena at CERN-SPS; observation of volume reflection with 400 GeV/c protons nuclear

		dechanneling, PXR production and other phenomena ; development of new technique of collimation for future colliders.
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Detector R&D		
2020-now	Sensors, novel materials	<i>NanoBio</i> project – development of electrochemical sensors aided with VA-CNT, antimicrobial CNT-treated surface. New composite materials (CNT-added copper, CNT-enhanced basalt fibers)
2018-2022	Gas detectors	Member of the RD-51 collaboration
2017-2018	Optically readout gas TPC	CYGNUS-RD : operation of a 10 liter gas TPC with a GEM optical readout as prototype for neutron and dark matter detections
2015-2018	Cherenkov detectors, Beam loss monitor	Construction, installation, and operation of Cherenkov detectors in the SPS to monitor extracted beams.
2014-now	LHC collimation, bent crystals	Installation into the LHC of bent crystals for crystal collimation tests
2012-2015	Particles targets	MEG upgrade, development of an Active Target based on thin scintillating fibers readout by SiPM
2012-2013	Beam monitors	Development of fast hodoscopes for circulating beams (SPS)
2003-2004	Gas detectors	Limited-Streamer tubes (LST) production for IFR-Barrel upgrade (BaBar experiment)
2003	Gas detectors	RPC ageing studies
2002	Gas detectors	Installation and commissioning of RPC (BaBar exp)
2001-2002	Gas detectors	RPC production, quality assurance (BaBar exp)

Heavy quark physics		
2017-now	Electric dipole moments, baryons	Proposal to measure MDM and EDM of heavy quark baryons with bent crystal at the LHC (collaboration with EU ERC CoG project <i>SELDOM</i>)
2011	Charm quark	Review on charm mixing
2006-2009	Charm quark	D⁰-mixing analyses , main author at BaBar of time-dependent Dalitz analysis of $D^0 \rightarrow K\pi\pi^0$
2005-2007	Charm quark, scalar mesons	D^0 Dalitz analyses at BaBar, study of scalar mesons in $D^0 \rightarrow K_S \pi^+ \pi^-$ decays
2007		Conceptual design report for a Super Flavour factory
2004-2006	B mesons	Analysis searching for the very rare leptonic decays $B^0 \rightarrow l^+ l'^-$
2004-2006	CKM matrix	Analysis to extract the angle γ of CKM matrix in $B^- \rightarrow D^{(*)0} K^-$ with a Dalitz analysis at BaBar
2005-2007	New physics in flavor physics	Analyses measuring time-dependent CP violation in $b \rightarrow s$ and $b \rightarrow d$ transitions , searching for New Physics effect with Dalitz analyses, branching fractions and CP violation measurements at BaBar

2004	Direct CP violation	Observation of direct CP violation in $B^0 \rightarrow K^+\pi^-$ decays at BaBar see also press release http://www.infn.it/news/news.php?id=332 .
2000-2004	CKM matrix	BaBar Charmless B decays analysis working group coordinator . Charge of this group is the measurement of α and γ angles of the CKM unitarity triangle with branching ratio and CP violation measurements. I lead a group of about 15 physicists working on 7 different analyses.

Part VII.B – Outreach and technological transfer Activities

I am active in various outreach and technological transfer projects with Sapienza and INFN.

Some of the crystal and CNT based materials I have been studying are now considered for technology transfer or are patented. With my group and the INFN Hammer group we developed an innovative copper powder (*Dragon Copper*) for 3D laser printing for additive manufacturing now **patented** and in the process of being produced by a company.

I am currently leading the **ShareScience** committee of the Science Faculty of Sapienza (web.uniroma1.it/fac_smfn/share-science) which was created to disseminate academic research results to SMEs and large industries of the region of Lazio and improve the connections of the Science Faculty to secondary high school.

In the context of the **PNRR PE4 NQSTI** (quantum science and tech.) I coordinate the Joint Laboratories WG of the Spoke 8 (devoted to technological transfer). I am also the scientific contact for Sapienza in Spoke 8 of NQSTI.

In the recent years I was one of the early funding members of the **Lab2go** project that was proposed to empower the laboratory activity in secondary schools - first in Roma and now in Italy.

Year	Activity
2023	Industrial Collaboration on additive manufacturing with <i>Add-To-Shape srl</i> for Dragon Copper production on industrial scale (with Sapienz and INFN)
2023	Patent <i>Dragon Copper</i> : international extension (PCT/IB2023/055084).
2022	Patent n. 102022000010511 <i>Metodo di produzione di una miscela di rame puro e nanotubi di carbonio e di manifattura additiva di un materiale nanocomposito a matrice metallica di rame puro rinforzato con nanotubi di carbonio per mezzo di detta miscela (Dragon Copper)</i>
2021- now	<i>Co-Chair</i> of the Share-Science committee
2020-2021	Member of the Share-Science committee
2018-2019	Organization of the Gravitational Wave day at Dip.Fisica Sapienza
2017-2018	Serial production of bent crystal for the LHC crystal collimation project-technological transfer of INFN towards CERN
2017	Collaboration with <i>Asimmetrie</i> (INFN outreach journal)
2017-2021	Tutor of the phase 2 of the Lab2go
2016-2017	Tutor of the first edition of the Lab2go project

Part VII.B – Conferences and workshops organization

2021	<i>Chair</i> of the organizing comm. for Scienze Aperte workshop (Roma)
2021	Organizer of <i>Shedding light on XI7</i> Workshop (Roma)
2019	<i>Chair</i> of organizing committee of CYGNUS 2019 (Roma)
2018- now	Committee <i>member</i> for colloquia organization at Dip.Fisica Sapienza
2018- now	<i>Member</i> of the Scientific Committee of the INFN School of Statistics
2017- now	<i>Member</i> of Channeling conference International Advisory Board
2010-2019	INFN Roma experimental seminars organizer
2015	Convener IFAE 2015 (Roma Tor Vergata)
2010-2016	International program committee member of four editions of Channeling conference
2008	CKM workshop organizing committee
2005-2008	CKM workshops WG convener in various edition

Part VIII – Summary of Scientific Achievements

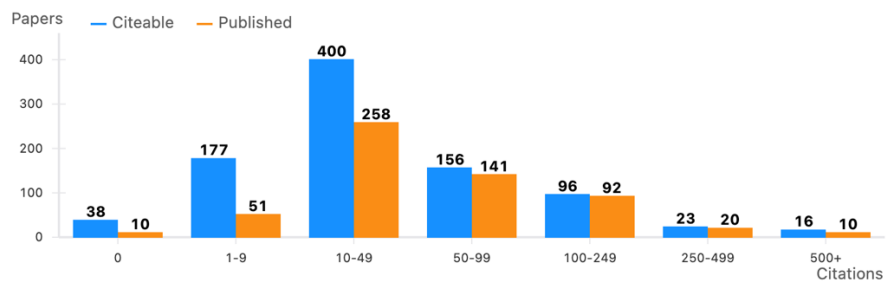
	Last 15 years	Total
Number of paper (ISI)	338	640
Total Citations (ISI)	11470	25502
Average Citations per Product (ISI)	33.93	39.97
Hirsch (H) index (ISI)	55	87

From <https://inspirehep.net>

Citation Summary

Exclude self-citations ⓘ

	Citeable ⓘ	Published ⓘ
Papers	906	582
Citations	57,831	47,563
h-index ⓘ	113	109
Citations/paper (avg)	63.8	81.7



I was invited to give **more than 30 talks** in international conferences, and I gave tens of seminars in universities and research centers.

Part IX– Selected Publications

1. J. Adam et al. [MEG Collaboration],
“New constraint on the existence of the μ^+ to $e^+\gamma$ decay, Phys. Rev. Lett. 110 (2013) 201801
694 Cit, IF 7.73
2. A. M. Baldini et al. [MEG Collaboration],
“Search for the lepton flavour violating decay μ^+ to $e^+\gamma$ with the full dataset of the MEG experiment,” Eur. Phys. J. C 76, no. 8, 434 (2016)
956 Cit, IF 5.30
3. A. M. Baldini et al., [MEG Collaboration],
“The design of the MEG-II experiment”, Eur. Phys. J. C 78, no. 5, 380 (2018)
294 Cit, IF 5.25
4. L. M. Capparelli, G. Cavoto, D. Mazzilli and A. D. Polosa, “Directional Dark Matter Searches with Carbon Nanotubes,” Phys. Dark Univ. 9-10, 24 (2015)
30 Cit, IF 5.22
5. W. Scandale et al., [UA9 Collaboration],
“Observation of channeling for 6500 GeV/c protons in the crystal assisted collimation setup for LHC,” Phys. Lett. B 758, 129 (2016).
111 Cit, IF 4.81
6. L. Capparelli, G. Cavoto, J. Ferretti, F. Giazotto, A. D. Polosa and P. Spagnolo
“Axion-like particle searches with sub-THz photons,”
Phys. Dark Univ. 12, 37 (2016)
42 Cit, IF 5.43
7. G. Cavoto, E. N. M. Cirillo, F. Cocina, J. Ferretti and A. D. Polosa, “WIMP detection and slow ion dynamics in carbon nanotube arrays,” Eur. Phys. J. C 76, no. 6, 349 (2016)
33 Cit, IF 5.30
8. E. Bagli, L. Bandiera, G. Cavoto, V. Guidi, L. Henry, D. Marangotto, F. Martinez Vidal, A. Mazzolari, A. Merli, N. Neri
“Electromagnetic dipole moments of charged baryons with bent crystals at the LHC,”
Eur. Phys. J. C 77, no. 12, 828 (2017)
49 Cit, IF 5.17
9. G. Cavoto, A. Papa, F. Renga, E. Ripiccini and C. Voena,
“The quest for μ to $e\gamma$ and its experimental limiting factors at future high intensity muon beams,” Eur. Phys. J. C 78, no. 1, 37 (2018)
33 Cit, IF 5.17
10. G. Cavoto, F. Luchetta and A. D. Polosa,
“Sub-GeV Dark Matter Detection with Electron Recoils in Carbon Nanotubes,” Phys. Lett. B 776, 338 (2018)
75 Cit, IF 4.25
11. M.G.Betti et al [PTOLEMY Collaboration]
“A design for an electromagnetic filter for precision energy measurements at the tritium endpoint”
Prog.Part.Nucl.Phys. 106 (2019), 120-131
18 Cit, IF 13.4
12. M. G. Betti et al. [PTOLEMY Collaboration],
“Neutrino physics with the PTOLEMY project: active neutrino properties and the light sterile case,” JCAP 07 (2019), 047
139 Cit, IF 3.16
13. C. Hadjidakis, , et al.
“A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies,”
Phys. Rept. 911 (2021), 1-83

97 Cit, IF 25.6

14. E. Baracchini et al. [CYGNO collaboration]
“Identification of low energy nuclear recoils in a gas time projection chamber with optical readout”
Measur.Sci.Tech. 32 (2021) 2, 025902
17 Cit, IF 2.4
15. Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene
Abdelnabi, Mahmoud Mohamed Saad, et al.
Nanotechnology (2021) 32,3
16 Cit., IF 4.0
16. A. Apponi et al. [PTOLEMY Collaboration]
“Heisenberg’s uncertainty principle in the PTOLEMY project: a theory update”
Phys.Rev.D 106 (2022) 5, 053002
17 Cit, IF 5.4

Citations from da INSPIRE and Google Scholar 21 July 2023, Impact factor (IF) from JCR and Academic Accelerator.

The lists of all my publications and of my talks at conferences are attached here below.

Roma, 20 settembre 2025

In fede, Gianluca Cavoto

Att.A: List of all the talks at conferences

Mar 2023 Invited talk on “The role of neutrons sources in dark matter measurements” at the FNG 30 years anniversary in Frascati

Mar 2023 Invited talk on Ptolemy at the 23rd conference on radionuclide metrology and its application (ICRM 23) in Magurele (Romania)

Nov 2022 Invited talk on Ptolemy at the International Conference on Quantum Technology for High-Energy Physics at CERN

Sep 2022, invited talk on “Searches with the MEG-II Experiment” at BLV 2022 in Brussels

July 2022 invited talk on “Innovative avenues for dark matter and neutrinos detection” at Symposium on Experimental Particle Physics at MPP in Munich

July 2022 talk on “Searching for Light Dark Matter with Aligned Carbon Nanotubes: the ANDROMEa Project” at the 41st International Conference on High Energy physics ICHEP 2022 in Bologna

Jul 2021, EPS 2021, Prague, talk on “The Cygno Experiment”

Sep 2019, TAUP 2019, Toyama (Japan), talk on “Carbon Nanotube as anisotropic target for dark matter”.

Feb 2019, VCI 2019, Vienna Conference on Instrumentation, talk on "Micro Pattern Gas Detector Optical Readout for Directional Dark Matter Searches"

Jun 2018, GEMMA, Gravitational waves, Electromagnetic and Dark Matter Physics Workshop, Lecce, invited talk on "Novel technologies for direct dark matter detection"

May 2018, Searching for Physics Beyond the Standard Models Using Charged Leptons Workshop at COFI, Puerto Rico (USA) invited talk on $\mu \rightarrow e\gamma$ and $\mu \rightarrow 3e$ searches.

Jun 2017 CYGNUS 2017 workshop on directional dark matter detection Xichang, Sichuan (China), invited talk on Experimental tests of negative ion TPC

Sep 2016, Nano Innovation 2016, Roma 20-23 Sep 2016 invited talk on Carbon nanotubes as a target for directional WIMP detection

Jul 2016, IDM 16 Sheffield (UK) talk on Carbon nanotubes as a target for directional WIMP detection

Jun 2016, FPCP 16 Los Angeles (USA), invited talk on The $\mu \rightarrow e\gamma$ final search with MEG and MEG-II status

Jun 2015, CYGNUS 2015 workshop on directional dark matter detection Los Angeles (USA), invited talk on Experimental tests of ion channelings in carbon nanotubes

Jun 2015, LDMA2015 International Workshop, Camogli (Italy), invited talk on Carbon nanotubes potentialities for directional searches of dark matter particles with $M < 10$ GeV

Oct 2015, Small Angle Spectrometer at LHC workshop, talk on Channeling for high- xF

May 2014, FPCP 14 Marseille (France), invited talk on Searching for $\mu \rightarrow e\gamma$ with MEG and MEG-II ;

Apr 2013, International Workshop on Baryon and Lepton Number Violation From the Cosmos to the LHC, April 8-11, 2013, MPIK Heidelberg, Germany” invited talk Searching for the mu into e gamma decay with the present and future MEG experiment”

Jun 2012, ATHOS 2012, Jun 2012 Camogli International Workshop on new partial wave analysis tools for next generation hadron spectroscopy experiments, invited talk on ”Analysis tools: the heavy quark sector”,

Mar 2012, 26-me Rencontres de Physique de La Valle d’Aoste, 26-3 Mar 2012, La Thuile, Italy invited talk Lepton Flavour Violation with MEG,

Apr 2011, Incontri di Fisica delle Alte Energie, Perugia Apr 2011, talk ”Crystal collimation of hadron beam at CERN, the UA9 experiment”

Sep 2010, Neutrino Oscillation Workshop (NOW 2010), 4 -11 Sep 2010, Conca Specchiulla (Otranto) Italy, invited talk “Recent MEG results”

Sep 2010, Societa` Italiana di Fisica, Congresso Nazionale 2010, invited talk on “Bent crystals and accelerator collimation”

Sep 2009, Societa` Italiana di Fisica, Congresso Nazionale 2009 invited talk on “First results of MEG experiment”

Feb 2009, PSI BVR meeting invited talk on “Timing Counter calibration of MEG experiment”

May 2007, FPCP 07 Bled (Slovenia), invited talk on “Charm Dalitz analyzes”

Feb 2007, Incontri italiani di Fisica del B, invited talk on “Rare Hadronic Charmless B decays at BaBar”

Dec 2006, CKM Workshop 2006 - Nagoya (Japan), WG5 summary talk;

Dec 2006, CKM Workshop 2006 - Nagoya (Japan), invited talk on “ $B \rightarrow \rho\pi$ decays”;

Oct 2006, CERN, Flavour in the era of LHC workshop, invited talk on “CKM angles from Babar”;

Sep 2006, Societa` Italiana di Fisica, Congresso Nazionale 2006, Torino (Italy), invited talk “Measurement of sides and angles of the CKM Unitarity triangle” ;

Nov 2005, CERN, Flavour in the era of LHC workshop, invited talk “Measurements of γ and V_{ub} ”

Aug 2004, 32nd International Conference on High Energy Physics, ICHEP04, Beijing (China), invited talk “Measurement of γ and $\sin 2\beta + \gamma$ in BaBar”

Apr 2004, XVI Incontro Fisica della Alte Energie, Parma (Italy), invited talk “Measurements of $\sin 2\alpha$ at B-factories”

Oct 2003, VII Workshop on Resistive Plate Chambers and related detectors, invited talk “BaBar Forward EndCap RPCs”

Jan 2003, Aspen Winter 2003 Conference on Particle Physics At the Frontiers of Particle Physics, invited talk “Rare B Decays and direct CP violation at BaBar”;

Apr 2002, XIV Incontro Fisica della Alte Energie, Parma (Italy), invited talk “Measurements of Branching fractions and CP-violating asymmetries in $B^0 \rightarrow \pi^+\pi^-$, $K^+\pi^-$, K^+K^- decays”;

Sep 2001, Società Italiana di Fisica, Congresso Nazionale 2001, Milano-Bicocca (Italy), invited talk “B meson decays to final states with various charm multiplicity in BaBar”

Mar 2001, XXXVI QCD Rencontres de Moriond, Les Arcs (France), invited talk “Charmless Hadronic B decays at BaBar”

Sep 1999, Società Italiana di Fisica, Congresso Nazionale 1999, Pavia (Italy), talk on “First results of BaBar”

Mar 1997, BaBar Physics Workshop, Princeton (USA), talk on “Towards a isospin analysis in two pions B^0 decays”.

Att. B: List of all the publications (journal, preprints, proceedings, books)

G.Cavoto, Translation to Italian of L.Randall Warped Passages, Il Saggiatore (2006).

Plasma-etched vertically aligned CNTs with enhanced antibacterial power
E.Schifano, G.Cavoto, F.Pandolfi, G.Pettinari, A.Apponi, A.Ruocco, D.Uccelletti, I.Rago
DOI: 10.3390/nano13061081
Nanomaterials,13:6 (2023)

The CYGNO/INITIUM experiment
F.D. Amaro et al.
DOI: 10.21468/SciPostPhysProc.12.019
Published in: SciPost Phys.Proc. 12 (2023), 019

The CYGNO experiment, a directional detector for direct Dark Matter searches
F.D.Amaro et al.
DOI: 10.1016/j.nima.2023.168325
Published in: Nucl.Instrum.Meth.A 1054 (2023), 168325,

Shedding light on X17: community report
Daniele S.M. Alves et al.
DOI: 10.1140/epjc/s10052-023-11271-x
Published in: Eur.Phys.J.C 83 (2023) 3, 230

LIME — A gas TPC prototype for directional Dark Matter search for the CYGNO experiment
F.D.Amaro et al.
DOI: 10.1016/j.nima.2023.168207
Published in: Nucl.Instrum.Meth.A 1051 (2023), 168207
The dark-PMT: A novel directional light dark matter detector based on vertically-aligned carbon nanotubes
F. Pandolfi, G.Cavoto et al.
DOI: 10.1016/j.nima.2023.168116
Published in: Nucl.Instrum.Meth.A 1050 (2023), 168116

The Cylindrical Drift Chamber of the MEG II experiment
M. Chiappini et al.
DOI: 10.1016/j.nima.2022.167740
Published in: Nucl.Instrum.Meth.A 1047 (2023), 167740

Astroparticle Experiments to Improve the Biological Risk Assessment of Exposure to Ionizing Radiation in the Exploratory Space Missions: The research topic initiative
A. Bartoloni, N. Ding, G. Cavoto, C. Consolandi, L. Strigari
DOI: 10.1016/j.nima.2022.167738
Published in: Nucl.Instrum.Meth.A 1047 (2023), 167738

50 litres TPC with sCMOS-based optical readout for the CYGNO project
G. Mazzitelli (Frascati), et al.
DOI: 10.1016/j.nima.2022.167584 x

Published in: Nucl.Instrum.Meth.A 1045 (2023), 167584

Searching for Light Dark Matter with Aligned Carbon Nanotubes: The ANDROMEa Project
Federico Virzi et al.

DOI: 10.1051/epjconf/202328006001

Published in: EPJ Web Conf. 280 (2023), 06001

Astroparticle experiments to improve the biological risk assessment of exposure to ionizing radiation in the exploratory space missions: a research topic initiative

Alessandro Bartoloni, Cristina Consolandi, Gianluca Cavoto, Nan Ding, Lidia Strigari

DOI: 10.22323/1.414.0964

Published in: PoS ICHEP2022, 964

The CYGNO experiment

F.D. Amaro et al.

DOI: 10.22323/1.414.1036

Published in: PoS ICHEP2022, 1036,

Relativistic corrections to polarized-tritium β decay

Gianluca Cavoto, Angelo Esposito, Guglielmo Papiri, Antonio Davide Polosa

DOI: 10.1103/PhysRevC.107.064603 (publication)

Published in: Phys.Rev.C 107 (2023) 6, 064603

LIME: a gaseous TPC with optical readout

F.D. Amaro et al.

DOI: 10.22323/1.414.0334

Published in: PoS ICHEP2022, 334,

Analysis and study of the problems on the wires used in the MEG CDCH and the construction of the new drift chamber

G. Chiarello, G. Cavoto et al.

DOI: 10.1016/j.nima.2022.167735

Published in: Nucl.Instrum.Meth.A 1046 (2023), 167735

Commissioning and preliminary performance of the MEG II drift chamber

M. Chiappini (INFN, Pisa) et al.

DOI: 10.1016/j.nima.2022.167314

Published in: Nucl.Instrum.Meth.A 1041 (2022), 167314

Exploiting INFN-Cloud to implement a Cloud solution to support the CYGNO computing model

F.D. Amaro et al.

DOI: 10.22323/1.415.0021

Published in: PoS ISGC2022 (2022), 021

The measuring systems of the wire tension for the MEG II Drift Chamber by means of the resonant frequency technique

A.M. Baldini et al.

DOI: 10.1016/j.nima.2022.167534 (publication)

Published in: Nucl.Instrum.Meth.A 1045 (2023), 167534

Highly aligned growth of carbon nanotube forests with in-situ catalyst generation. A route to multifunctional basalt fibres.

F.Sarasini, J. Tirillò, M. Lilli, M.P. Bracciale, P.E. Vullum, F. Berto, G. De Bellis, A.Tamburrano, G. Cavoto, F. Pandolfi, I. Rago.

DOI: 10.1016/j.compositesb.2022.110136

Composite Part B, Engineering 243 (2022) 1-13.

Feasibility of crystal-assisted collimation in the CERN accelerator complex

W. Scandale, G.Cavoto et al. [UA9 Collaboration]

DOI: 10.1142/S0217751X22300046

Published in: Int.J.Mod.Phys.A 37 (2022) 13, 2230004

Heisenberg's uncertainty principle in the PTOLEMY project: A theory update

A. Apponi et al. [PTOLEMY Collaboration]

DOI: 10.1103/PhysRevD.106.053002 (publication)

Published in: Phys.Rev.D 106 (2022) 5, 053002

Crystal-based pair production for a lepton collider positron source

L. Bandiera, G. Cavoto et al.

DOI: 10.1140/epjc/s10052-022-10666-6

Published in: Eur.Phys.J.C 82 (2022) 8, 699

The CYGNO Experiment

F.D.Amaro et al.

DOI: 10.3390/instruments6010006

Published in: Instruments 6 (2022) 1, 6

Theoretical Modeling for the Thermal Stability of Solid Targets in a Positron-Driven Muon Collider

Cesarini, Gianmario, G.Cavoto, et al.

DOI: 10.1007/s10765-021-02913-x

Published in: Int. J. of Thermophysics (2021) 42, 12

Deuterium Adsorption on Free-Standing Graphene

Abdelnabi, Mahmoud Mohamed Saad, G.Cavoto et al.

DOI: 10.3390/nano11010130

Published in: Nanomaterials (2021) 11, 1

Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphane

Abdelnabi, Mahmoud Mohamed Saad, G.Cavoto et al.

DOI: 10.1088/1361-6528/abbe56

Published in: Nanotechnology (2021) 32,3

Multiple scattering of channeled and non-channeled positively charged particles in bent monocrystalline silicon

W. Scandale, G. Cavoto, et al.
DOI: 10.1140/epjp/s13360-022-03034-6
Published in: Eur.Phys.J.Plus 137 (2022) 7, 811

Absolute efficiency of a two-stage microchannel plate for electrons in the 30–900 eV energy range
A. Apponi, F. Pandolfi, I. Rago, G. Cavoto, C. Mariani and A. Ruocco,
DOI: 10.1088/1361-6501/ac3d07
Published in: 2022 Meas. Sci. Technol. 33 025102

Detailed analysis of chemical corrosion of ultra-thin wires used in drift chamber detectors
A.M. Baldini, G. Cavoto, F. Cei, M. Chiappini, G. Chiarello et al.
e-Print: 2108.13948 [physics.ins-det]
DOI: 10.1088/1748-0221/16/12/T12003
Published in: JINST 16 (2021) 12, T12003

Implementation and optimization of the PTOLEMY transverse drift electromagnetic filter
A. Apponi, Calle et al. [PTOLEMY Collaboration]
DOI: 10.1088/1748-0221/17/05/P05021
Published in: JINST 17 (2022) 05, P05021

The Search for $\mu^+ \rightarrow e^+\gamma$ with 10–14 Sensitivity: The Upgrade of the MEG Experiment
MEG II Collaboration • Alessandro M. Baldini (INFN, Pisa) et al.
e-Print: 2107.10767 [hep-ex]
DOI: 10.3390/sym13091591
Published in: Symmetry 13 (2021) 9, 1591

Directional Dark Matter Searches with CYGNO
Fernando Domingues Amaro (Coimbra U.), Elisabetta Baracchini (GSSI, Aquila and Gran Sasso),
Luigi Benussi (Frascati), Stefano Bianco (Frascati), Cesidio Capoccia (Frascati) et al.
DOI: 10.3390/particles4030029
Published in: Particles 4 (2021) 3, 343-353

Muon detection in electron-positron annihilation for muon collider studies
N. Amapane (Turin U. and INFN, Turin), M. Antonelli (Frascati), F. Anulli (INFN, Rome3), G.
Ballerini (Insubria U., Como and INFN, Milan Bicocca), L. Bandiera (INFN, Ferrara) et al.
DOI: 10.1016/j.nima.2021.166129
Published in: Nucl.Instrum.Meth.A 1024 (2022), 166129

Heavy-flavour studies with a high-luminosity fixed-target experiment at the LHC
Barbara Trzeciak (Prague, Tech. U.), S.J. Brodsky (SLAC), G. Cavoto (INFN, Rome and Rome
U.), C. Da Silva (Los Alamos), M.G. Echevarria (UCM, Madrid, Dept. Phys.) et al.
e-Print: 2104.10926 [nucl-ex]
DOI: 10.22323/1.387.0190
Published in: PoS HardProbes2020 (2021), 190

Search for a muon EDM using the frozen-spin technique
A. Adelman (ETH, Zurich (main) and PSI, Villigen), M. Backhaus (ETH, Zurich (main)), C.
Chavez Barajas (Liverpool U.), N. Berger (Mainz U., Inst. Phys.), T. Bowcock (Liverpool U.) et al.
e-Print: 2102.08838 [hep-ex]

The dark-PMT: a novel directional light Dark Matter detector based on vertically-aligned carbon nanotubes

F. Pandolfi, G. Cavoto et al.

DOI: 10.1088/1742-6596/2156/1/012051

Published in: J.Phys.Conf.Ser. 2156 (2021), 012051

Carbon Nanostructures for Directional Light Dark Matter Detection

Alice Apponi (Rome U. and INFN, Rome), Gianluca Cavoto (Rome U. and INFN, Rome), Carlo Mariani (Rome U.), Francesco Pandolfi (INFN, Rome), Ilaria Rago (Rome U. and INFN, Rome) et al.

DOI: 10.22323/1.390.0648

Published in: PoS ICHEP2020 (2021), 648

Next-generation ultra-compact calorimeters based on oriented crystals

Mattia Soldani (Ferrara U. and INFN, Ferrara), Laura Bandiera (INFN, Ferrara), Luca Bomben (Insubria U., Como and INFN, Milan Bicocca), Claudia Brizzolari (INFN, Milan Bicocca and Milan Bicocca U.), Riccardo Camattari (Ferrara U. and INFN, Ferrara) et al.

DOI: 10.22323/1.390.0872

Published in: PoS ICHEP2020 (2021), 872

Progress towards the first measurement of charm baryon dipole moments

S. Aiola (INFN, Milan), L. Bandiera (INFN, Ferrara), G. Cavoto (INFN, Rome and Rome U., La Sapienza, Dip. di Astron.), F. De Benedetti (INFN, Milan), J. Fu (INFN, Milan and Milan U.) et al.
e-Print: 2010.11902 [hep-ex]

DOI: 10.1103/PhysRevD.103.072003

Published in: Phys.Rev.D 103 (2021) 7, 072003

A photogrammetric method for target monitoring inside the MEG II detector

G. Cavoto (Rome U.), G. Chiarello (INFN, Rome), M. Hildebrandt (PSI, Villigen), A. Hofer (PSI, Villigen), K. Ieki (Tokyo U., ICEPP) et al.

e-Print: 2010.11576 [physics.ins-det]

DOI: 10.1063/5.0034842 (publication)

Published in: Rev.Sci.Instrum. 92 (2021) 4, 043707

LEMMA approach for the production of low-emittance muon beams

N. Amapane (Turin U. and INFN, Turin), M. Antonelli (Frascati), F. Anulli (INFN, Rome), G. Ballerini (INFN, Milan Bicocca and Insubria U., Como), L. Bandiera (INFN, Ferrara) et al.

DOI: 10.1393/ncc/i2019-19259-6

Published in: Nuovo Cim.C 42 (2020) 6, 259

Response of windowless silicon avalanche photo-diodes to electrons in the 90–900 eV range

Alice Apponi, Gianluca Cavoto, Marco Iannone, Carlo Mariani, Francesco Pandolfi et al.

e-Print: 2008.07169 [physics.ins-det]

DOI: 10.1088/1748-0221/15/11/P11015

Published in: JINST 15 (2020) 11, P11015

CYGNO: a gaseous TPC with optical readout for dark matter directional search

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.12627 [physics.ins-det]

DOI: 10.1088/1748-0221/15/07/C07036 (publication)
Published in: JINST 15 (2020) 07, C07036

Identification of low energy nuclear recoils in a gas time projection chamber with optical readout
E Baracchini (GSSI, Aquila and Gran Sasso), L Benussi (Frascati), S Bianco (Frascati), C Capocchia (Frascati), M Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.12508 [physics.ins-det]

DOI: 10.1088/1361-6501/abbd12 (publication)

Published in: Measur.Sci.Tech. 32 (2021) 2, 025902

An automatic system for the wiring of Drift Chambers for modern high intensity and high precision particle physics experiments

G. Chiarello (Rome U. and INFN, Rome), A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa) et al.

DOI: 10.1088/1748-0221/15/07/C07034

Published in: JINST 15 (2020) 07, C07034

A density-based clustering algorithm for the CYGNO data analysis

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.01763 [physics.ins-det]

DOI: 10.1088/1748-0221/15/12/T12003 (publication)

Published in: JINST 15 (2020) 12, T12003

Stability and detection performance of a GEM-based Optical Readout TPC with He/CF₄ gas mixtures

E. Baracchini (GSSI, Aquila and Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2007.00608 [physics.ins-det]

DOI: 10.1088/1748-0221/15/10/P10001

Published in: JINST 15 (2020) 10, P10001

Silicon crystals for steering high-intensity particle beams at ultrahigh-energy accelerators

A. Mazzolari (INFN, Ferrara), M. Romagnoni (INFN, Ferrara and Ferrara U.), E. Bagli (INFN, Ferrara), L. Bandiera (INFN, Ferrara), S. Baricordi (Ferrara U.) et al.

e-Print: 2006.15582 [physics.acc-ph]

DOI: 10.1103/PhysRevResearch.3.013108

Published in: Phys.Rev.Res. 3 (2021) 1, 013108

Performance of Prototype of Optically Readout TPC with a ^{55}Fe source

I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), F. Bellini (INFN, Rome and Rome U.), L. Benussi (Frascati), S. Bianco (Frascati) et al.

DOI: 10.1088/1742-6596/1498/1/012017

Published in: J.Phys.Conf.Ser. 1498 (2020), 012017

The Drift Chamber of the MEG II experiment

G.F. Tassielli (INFN, Lecce), A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa) et al.

e-Print: 2006.02378 [physics.ins-det]

DOI: 10.1088/1748-0221/15/09/C09051

Published in: JINST 15 (2020) 09, C09051

Performance of an optically read out time projection chamber with ultra-relativistic electrons
V.C. Antochi (Rome U. and Stockholm U., OKC), G. Cavoto (Rome U. and INFN, Rome), I.A. Costa (Rome U. and Juiz de Fora U.), E. Di Marco (INFN, Rome), G. D'Imperio (INFN, Rome) et al.

e-Print: 2005.12272 [physics.ins-det]

DOI: 10.1016/j.nima.2021.165209

Published in: Nucl.Instrum.Meth.A 999 (2021), 165209

Observation of strong reduction of multiple scattering for channeled particles in bent crystals
W. Scandale (CERN), G. Arduini (CERN), F. Cerutti (CERN), M. Garattini, S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2020.135396

Published in: Phys.Lett.B 804 (2020), 135396

Commissioning of the MEG II tracker system

M. Chiappini (INFN, Pisa), A.M. Baldini (INFN, Pisa), G. Cavoto (INFN, Rome and Rome U.), F. Cei (INFN, Pisa and Pisa U.), G. Chiarello (INFN, Rome and Rome U.) et al.

e-Print: 2005.02242 [physics.ins-det]

DOI: 10.1088/1748-0221/15/06/C06056

Published in: JINST 15 (2020) 06, C06056

Search for lepton flavour violating muon decay mediated by a new light particle in the MEG experiment

MEG Collaboration • A.M. Baldini (INFN, Pisa and Pisa U.) et al.

e-Print: 2005.00339 [hep-ex]

DOI: 10.1140/epjc/s10052-020-8364-1

Published in: Eur.Phys.J.C 80 (2020) 9, 858

First evidence of luminescence in a He/CF₄ gas mixture induced by non-ionizing electrons
E. Baracchini (Gran Sasso), L. Benussi (Frascati), S. Bianco (Frascati), C. Capocchia (Frascati), M. Caponero (Frascati and ENEA, Frascati) et al.

e-Print: 2004.10493 [physics.ins-det]

DOI: 10.1088/1748-0221/15/08/P08018

Published in: JINST 15 (2020) 08, P08018

The ultra light Drift Chamber of the MEG II experiment

A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (Pisa U. and INFN, Pisa), M. Chiappini (INFN, Pisa and U. Siena, DSFTA), G. Chiarello (Rome U. and INFN, Rome) et al.

DOI: 10.1016/j.nima.2019.04.106

Published in: Nucl.Instrum.Meth.A 958 (2020), 162152

Micro pattern gas detector optical readout for directional dark matter searches

G. Cavoto (Rome U. and INFN, Rome), I. Abritta (Rome U. and INFN, Rome), E. Baracchini (GSSI, Aquila), M. Angelone (ENEA, Frascati), F. Bellini (Rome U. and INFN, Rome) et al.

DOI: 10.1016/j.nima.2019.162400

Published in: Nucl.Instrum.Meth.A 958 (2020), 162400

Directional Dark Matter Searches with the CYGNO Project

E. Baracchini (GSSI, Aquila and Gran Sasso), R. Bedogni (Frascati), F. Bellini (INFN, Rome and Rome U.), L. Benussi (Frascati), S. Bianco (Frascati) et al.

DOI: 10.1088/1742-6596/1468/1/012039

Published in: J.Phys.Conf.Ser. 1468 (2020) 1, 012039

CYGNO: Light Dark Matter search with an optically readout TPC

D. Pinci (INFN, Rome), I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), R. Bedogni (Frascati), F. Bellini (Rome U.) et al.

DOI: 10.1393/ncc/i2020-20091-6

Published in: Nuovo Cim.C 43 (2020) 2-3, 91

Muon collider: the Low EMittance Muon Accelerator (LEMMA) approach

Nazar Bartosik (INFN, Turin), M. Antonelli (Frascati), O.R. Blanco-Garcia (Frascati), M. Boscolo (Frascati), M. Iafrati (Frascati) et al.

DOI: 10.22323/1.367.0047

Published in: PoS LeptonPhoton2019 (2019), 047

Carbon nanotubes as anisotropic target for dark matter

G. Cavoto (INFN, Rome and Rome U.), M.G. Betti (INFN, Rome and Rome U.), C. Mariani (INFN, Rome and Rome U.), F. Pandolfi (INFN, Rome and Rome U.), A.D. Polosa (INFN, Rome and Rome U.) et al.

e-Print: 1911.01122 [physics.ins-det]

DOI: 10.1088/1742-6596/1468/1/012232

Published in: J.Phys.Conf.Ser. 1468 (2020) 1, 012232

CYGNO: Triple-GEM Optical Readout for Directional Dark Matter Search

I. Abritta Costa (INFN, Rome), E. Baracchini (GSSI, Aquila), R. Bedogni (Frascati), F. Bellini (Rome U.), L. Benussi (Frascati) et al.

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Tests of Eco-Friendly Gas Mixtures in GEM Based Detectors with Optical Readout

I. Abritta Costa, E. Baracchini, R. Bedogni, F. Bellini, L. Benussi et al.

DOI: 10.1109/NSS/MIC42101.2019.9059721

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CYGNO Collaboration • E. Baracchini (GSSI, Aquila) et al.

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Operation stability of a prototype for CYGNO experiment

A. Apponi (Rome U.), E. Baracchini (GSSI, Aquila), R. Bedogni (Frascati), F. Bellini (INFN, Rome), L. Benussi (Frascati) et al.

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Study of muon pair production from positron annihilation at threshold energy

N. Amapane (Turin U. and INFN, Turin), M. Antonelli (Frascati), F. Anulli (INFN, Rome), G. Ballerini (Insubria U., Como and INFN, Milan Bicocca), L. Bandiera (INFN, Ferrara) et al.
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High resolution TPC based on optically readout GEM
D. Pinci (INFN, Rome), E. Baracchini (GSSI, Aquila), G. Cavoto (Rome U.), E. Di Marco (INFN, Rome), M. Marafini (Enrico Fermi Ctr., Rome) et al.
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The construction technique of the new MEG II tracker
G. Chiarello (Rome U. and INFN, Rome), A.M. Baldini (INFN, Pisa), G. Cavoto (Rome U. and INFN, Rome), F. Cei (Pisa U. and INFN, Pisa), M. Chiappini (INFN, Pisa and U. Siena, DSFTA) et al.
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F.M. Addesa (INFN, Rome), D. Breton (Orsay, LAL), L. Burmistrov (Orsay, LAL), G. Cavoto (INFN, Rome and Rome U.), V. Chaumat (Orsay, LAL) et al.

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M.G. Echevarria (INFN, Pavia), S.J. Brodsky (SLAC), G. Cavoto (INFN, Rome and Rome U.), C. Da Silva (Los Alamos), F. Donato (INFN, Turin and Turin U.) et al.

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PTOLEMY Collaboration • M.G. Betti (U. Rome La Sapienza (main) and INFN, Rome) et al.

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CYGNO: a CYGNUs Collaboration 1 m³ Module with Optical Readout for Directional Dark Matter Search

CYGNUS Collaboration • G. Mazzitelli (Frascati) et al.

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Aleksander Kusina (Cracow, INP), C. Hadjidakis (Orsay, IPN), D. Kikola (Warsaw U. of Tech.), J.P. Lansberg (Orsay, IPN), L. Massacrier (Orsay, IPN) et al.

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Characterisation of the fused silica surface quality with a β -source

A. Natochii (Orsay, LAL and Taras Shevchenko U. and CERN), L. Burmistrov (Orsay, LAL), F. Addesa (INFN, Rome), O. Bezshyyko (Taras Shevchenko U.), D. Breton (Orsay, LAL) et al.

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Experimental Limiting Factors for the Search of $\mu \rightarrow e\gamma$ at Future Facilities
Francesco Renga (INFN, Rome), Gianluca Cavoto (INFN, Rome and Rome U.), Angela Papa (INFN, Pisa and PSI, Villigen), Emanuele Ripiccini (Geneva U.), Cecilia Voena (INFN, Rome)
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F. Iacoangeli (INFN, Rome), F. Addesa (INFN, Rome), L. Bandiera (INFN, Ferrara), E. Bagli (INFN, Ferrara), G. Cavoto. (Rome U.)
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A fixed-target programme at the LHC for heavy-ion, hadron, spin and astroparticle physics:
AFTER@LHC
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Bent crystals for efficient beam steering of multi TeV-particle beams
A. Mazzolari (INFN, Ferrara), M. Romagnoni (INFN, Ferrara and Ferrara U.), R. Camattari (INFN, Ferrara), E. Bagli (INFN, Ferrara), L. Bandiera (INFN, Ferrara) et al.

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PTOLEMY Collaboration • E. Baracchini (GSSI, Aquila) et al.
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A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies

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Study of inelastic nuclear interactions of 400 GeV/c protons in bent silicon crystals for beam steering purposes

W. Scandale (CERN), F. Andrisani (CERN), G. Arduini (CERN), F. Cerutti (CERN), M. Garattini (CERN and Imperial Coll., London) et al.

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Gas Distribution and Monitoring for the Drift Chamber of the MEG-II Experiment

A.M. Baldini (INFN, Pisa), E. Baracchini (Tokyo U., ICEPP), G. Cavoto (INFN, Rome and Rome U.), F. Cei (INFN, Pisa and Pisa U.), M. Chiappini (INFN, Pisa and U. Siena, DSFTA) et al.
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The SE-CpFM Detector for the Crystal-Assisted Extraction at CERN-SPS

Francesca Addesa (INFN, Rome), Leonid Burmistrov (Orsay, LAL), Gianluca Cavoto (INFN, Rome), Sebastien Dubos (Orsay, LAL), Francesco Iacoangeli (INFN, Rome) et al.

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The quest for $\mu \rightarrow e \gamma$ and its experimental limiting factors at future high
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G. Cavoto (Rome U. and INFN, Rome), A. Papa (PSI, Villigen), F. Renga (INFN, Rome), E. Ripiccini (Geneva U.), C. Voena (INFN, Rome)
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Experimental results of crystal-assisted slow extraction at the SPS
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A smart adjustable Inelastic Nuclear Interactions counter based on compact Arduino control system and readout

F. Iacoangeli (INFN, Rome), A. Natochii (CERN), Y. Gavrikov (St. Petersburg, INP), M. Garattini (CERN), G. Cavoto (INFN, Rome) et al.

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Characterization of the quartz surface quality with β -source

A. Natochii (Taras Shevchenko U. and Orsay, LAL), F. Addesa (INFN, Rome), O. Bezshyyko (Taras Shevchenko U.), D. Breton (Orsay, LAL), L. Burmistrov (Orsay, LAL) et al.

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Observation of channeling in bent crystals at the CERN LHC

Roberto Rossi (CERN and INFN, Rome and U. Rome La Sapienza (main)), Walter Scandale (CERN), Gianluigi Arduini (CERN), Mark Butcher (CERN), Francesco Cerutti (CERN) et al.

DOI: 10.22323/1.282.0867

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Nuclear interaction detector system for UA9 experiments based on ArduSiPM prototype

F. Iacoangeli (INFN, Rome and Rome U.), V. Bocci (INFN, Rome and Rome U.), G. Cavoto (INFN, Rome and Rome U.), M. Garattini (CERN), L. Recchia (INFN, Rome and Rome U.) et al.

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Nuclear Interaction Detector system for UA9 experiments based on ArduSiPM prototype

F. Iacoangeli (INFN, Rome and Rome U.), F. Addesa (INFN, Rome and Rome U.), V. Bocci (INFN, Rome and Rome U.), G. Cavoto (INFN, Rome and Rome U.), M. Garattini (CERN) et al.

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High-efficiency deflection of high energy protons due to channeling along the $\langle 110 \rangle$ axis of a bent silicon crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

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Dark Sectors 2016 Workshop: Community Report

Jim Alexander (Cornell U., Phys. Dept.), Marco Battaglieri (INFN, Genoa), Bertrand Echenard (Caltech), Rouven Essig (SUNY, Stony Brook), Matthew Graham (SLAC) et al.

e-Print: 1608.08632 [hep-ph]

The $\mu \rightarrow e \gamma$ final search with MEG and the MEG-II status

Gianluca Cavoto (INFN, Rome)

DOI: 10.22323/1.280.0031

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A new cylindrical drift chamber for the MEG II experiment

A.M. Baldini, E. Baracchini, L. Berretta, S. Bianucci, G. Cavoto et al.

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W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1016/j.physletb.2016.05.004

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Very Low Emittance Muon Beam using Positron Beam on Target

Mario Antonelli (Frascati), Enrico Bagli (INFN, Ferrara), Maria Biagini (Frascati), Manuela Boscolo (Frascati), Gianluca Cavoto (INFN, Rome) et al.

DOI: 10.18429/JACoW-IPAC2016-TUPMY001

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Single-hit resolution measurement with MEG II drift chamber prototypes

A.M. Baldini (INFN, Pisa), E. Baracchini (Tokyo U., ICEPP), G. Cavoto (INFN, Rome), M. Cascella (Salento U. and INFN, Lecce), F. Cei (INFN, Pisa and Pisa U.) et al.

e-Print: 1605.07970 [physics.ins-det]

DOI: 10.1088/1748-0221/11/07/P07011

Published in: JINST 11 (2016), P07011

Search for the lepton flavour violating decay $\mu^+ \rightarrow e^+ \gamma$ with the full dataset of the MEG experiment

MEG Collaboration • A.M. Baldini (INFN, Pisa) et al.

e-Print: 1605.05081 [hep-ex]

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Published in: Eur.Phys.J.C 76 (2016) 8, 434

Measurement of the DAFNE Beam Test Facility's microbunching structure with Micro-Channel Plate based Cherenkov detector

F. Iacoangeli (INFN, Rome), B. Buonomo (Frascati), G. Cavoto (INFN, Rome), L. Foggetta (Frascati), P. Valente (INFN, Rome)

DOI: 10.1109/NSSMIC.2014.7431157

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WIMP detection and slow ion dynamics in carbon nanotube arrays

G. Cavoto (INFN, Rome), E.N.M. Cirillo (Rome U.), F. Cocina (Rome U.), J. Ferretti (Rome U. and INFN, Rome), A.D. Polosa (Rome U. and INFN, Rome and CERN)

e-Print: 1602.03216 [physics.ins-det]

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New detectors for axions

Caterina Braggio (INFN, Padua and Padua U.), G. Carugno (INFN, Padua and Padua U.), M. Guarise (INFN, Padua and Padua U.), L. Santamaria (CNR, Italy), V. Di Sarno (CNR, Italy) et al.

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UA9 Collaboration • R. Rossi (CERN and INFN, Rome) et al.

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Axion-like particle searches with sub-THz photons

L. Capparelli (UCLA), G. Cavoto (INFN, Rome), J. Ferretti (INFN, Rome and Rome U.), F. Giazotto (Pisa, Scuola Normale Superiore), A.D. Polosa (INFN, Rome and Rome U. and CERN) et al.

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Muon polarization in the MEG experiment: predictions and measurements

MEG Collaboration • A.M. Baldini (Pisa U. and INFN, Pisa) et al.

e-Print: 1510.04743 [hep-ex]

DOI: 10.1140/epjc/s10052-016-4047-3

Published in: Eur.Phys.J.C 76 (2016) 4, 223

Observation of strong leakage reduction in crystal assisted collimation of the SPS beam

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1016/j.physletb.2015.07.040 , 10.1016/j.physletb.2015.09.001 (erratum)

Published in: Phys.Lett.B 748 (2015), 451-454, Phys.Lett.B 750 (2015), 666-666 (erratum)

Measurements of coherent interactions of 400 GeV protons in silicon bent crystals

Roberto Rossi (CERN and INFN, Rome), Gianluca Cavoto (INFN, Rome), Daniele Mirarchi (CERN), Stefano Redaelli (CERN), Walter Scandale (CERN)

DOI: 10.1016/j.nimb.2015.03.001

Published in: Nucl.Instrum.Meth.B 355 (2015), 369-373

Deflection of positively charged heavy particles by the crystal miscut surface

A. Babaev, G. Cavoto, S.B. Dabagov

DOI: 10.1016/j.nimb.2015.01.018

Published in: Nucl.Instrum.Meth.B 355 (2015), 356-359

Test of full size Cherenkov detector for proton Flux Measurements

L. Burmistrov (Orsay, LAL), D. Breton (Orsay, LAL), G. Cavoto (INFN, Rome), V. Chaumat (Orsay, LAL), J. Collin (Orsay, LAL) et al.

DOI: 10.1016/j.nima.2014.11.089

Published in: Nucl.Instrum.Meth.A 787 (2015), 173-175

Observation of nuclear dechanneling length reduction for high energy protons in a short bent crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1016/j.physletb.2015.02.072

Published in: Phys.Lett.B 743 (2015), 440-443

Comparative results on the deflection of positively and negatively charged particles by multiple volume reflections in a multi-strip silicon deflector

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), M. Garattini (CERN) et al.

DOI: 10.1134/S0021364015100124

Published in: JETP Lett. 101 (2015) 10, 679-684

Directional Dark Matter Searches with Carbon Nanotubes

L.M. Capparelli (Rome U.), G. Cavoto (INFN, Rome), D. Mazzilli (Rome U.), A.D. Polosa (Rome U. and INFN, Rome)

e-Print: 1412.8213 [physics.ins-det]

DOI: 10.1016/j.dark.2015.08.002 , 10.1016/j.dark.2015.12.004 (erratum)

Published in: Phys.Dark Univ. 9-10 (2015), 24-30, Phys.Dark Univ. 11 (2016), 79-80 (erratum)

Study of the single cluster response of a helium-isobutane drift chamber prototype using 8 keV X-rays

G. Cavoto (INFN, Rome), S. Dabagov (Lebedev Inst. and Moscow Phys. Eng. Inst.), D. Hampai (Frascati), G. Piredda (INFN, Rome), F. Renga (INFN, Rome) et al.

e-Print: 1410.8719 [physics.ins-det]

DOI: 10.1088/1748-0221/10/03/P03012

Published in: JINST 10 (2015) 03, P03012

Deflection of high energy protons by multiple volume reflections in a modified multi-strip silicon deflector

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.nimb.2014.08.013

Published in: Nucl.Instrum.Meth.B 338 (2014), 108-111

Searching for the mu into e gamma decay with MEG and MEG-II

Gianluca Cavoto (INFN, Rome)

e-Print: 1407.8327 [hep-ex]

Mirroring of 400 GeV/c protons by an ultra-thin straight crystal

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2014.04.062

Published in: Phys.Lett.B 734 (2014), 1-6

The Physics of the B Factories

BaBar and Belle Collaborations • A.J. Bevan (Queen Mary, U. of London) et al.

e-Print: 1406.6311 [hep-ex]

DOI: 10.1140/epjc/s10052-014-3026-9

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Observation of focusing of 400 GeV/c proton beam with the help of bent crystals

W. Scandale (INFN, Rome and Orsay, LAL and CERN), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2014.05.051 (erratum)

Published in: Phys.Lett.B 733 (2014), 366-372, Phys.Lett.B 734 (2014), 408-408

IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers

M. Ferrario, D. Alesini, M. Alessandrini, M.P. Anania, S. Andreas et al.

DOI: 10.1016/j.nima.2013.11.040

Published in: Nucl.Instrum.Meth.A 740 (2014), 138-146

Deflection of proton beams by crystal miscut surface

A.A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (Frascati and Lebedev Inst. and Moscow Phys. Eng. Inst.)
e-Print: 1401.5271 [physics.acc-ph]

Measurement of Inner Bremsstrahlung in Polarized Muon Decay with MEG

J. Adam (PSI, Villigen and Zurich, ETH), X. Bai (Tokyo U., ICEPP), A.M. Baldini (INFN, Pisa), E. Baracchini (UC, Irvine and KEK, Tsukuba and Tokyo U., ICEPP), C. Bemporad (INFN, Pisa and Pisa U.) et al.

DOI: 10.1016/j.nuclphysbps.2014.02.019

Published in: Nucl.Phys.B Proc.Suppl. 248-250 (2014), 108-111

On the deflection of a positron beam by the miscut surface of an oriented crystal

A.A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (Frascati and Lebedev Inst. and Moscow Phys. Eng. Inst.)

DOI: 10.1134/S0021364014210036

Published in: JETP Lett. 100 (2015) 9, 550-554, Pisma Zh.Eksp.Teor.Fiz. 100 (2014) 9, 627-632

A simulation tool for scintillating fibers coupled to SiPM for MIP and heavy ionizing particle identification

A. Papa, G. Cavoto, E. Ripiccini, M.De Gerone

DOI: 10.1088/1748-0221/9/05/C05066

Published in: JINST 9 (2014), C05066

Feasibility study of an active target for the MEG experiment

A. Papa (PSI, Villigen), G. Cavoto (INFN, Rome), E. Ripiccini (INFN, Rome and Rome U.)

DOI: 10.1016/j.nuclphysbps.2014.02.023

Published in: Nucl.Phys.B Proc.Suppl. 248-250 (2014), 121-123

Measurement of the radiative decay of polarized muons in the MEG experiment

MEG Collaboration • A.M. Baldini (INFN, Pisa and Pisa U.) et al.

e-Print: 1312.3217 [hep-ex]

DOI: 10.1140/epjc/s10052-016-3947-6

Published in: Eur.Phys.J.C 76 (2016) 3, 108

Optimization of the crystal assisted collimation of the SPS beam

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), M. Butcher (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2013.08.028

Published in: Phys.Lett.B 726 (2013), 182-186

IRIDE White Book, An Interdisciplinary Research Infrastructure based on Dual Electron linacs&lasers

D. Alesini (Frascati), M. Alessandrini (Unlisted, IT), M.P. Anania (Frascati), S. Andreas (DESY), M. Angelone (ENEA, Rome) et al.

e-Print: 1307.7967 [physics.ins-det]

The BABAR Detector: Upgrades, Operation and Performance

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: 1305.3560 [physics.ins-det]

DOI: 10.1016/j.nima.2013.05.107

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The MEG detector for $\mu^+ \rightarrow e^+ \gamma$ decay search

J. Adam (PSI, Villigen and Zurich, ETH), X. Bai (Tokyo U., ICEPP), A.M. Baldini (INFN, Pisa and Pisa U.), E. Baracchini (Tokyo U., ICEPP and KEK, Tsukuba and UC, Irvine), C. Bemporad (INFN, Pisa and Pisa U.) et al.

e-Print: 1303.2348 [physics.ins-det]

DOI: 10.1140/epjc/s10052-013-2365-2

Published in: Eur.Phys.J.C 73 (2013) 4, 2365

New constraint on the existence of the $\mu^+ \rightarrow e^+ \gamma$ decay

MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.

e-Print: 1303.0754 [hep-ex]

DOI: 10.1103/PhysRevLett.110.201801

Published in: Phys.Rev.Lett. 110 (2013), 201801

MEG Upgrade Proposal

A.M. Baldini (INFN, Pisa), F. Cei (INFN, Pisa and Pisa U.), C. Cerri (INFN, Pisa), S. Dussoni (INFN, Pisa), L. Galli (INFN, Pisa) et al.

e-Print: 1301.7225 [physics.ins-det]

Development of an active target for $\mu \rightarrow e \gamma$ search

A. Papa (PSI, Villigen), G. Cavoto (INFN, Rome), E. Ripiccini (Rome U. and INFN, Rome)

DOI: 10.1016/j.nima.2012.11.111

Published in: Nucl.Instrum.Meth.A 718 (2013), 580-581

Cherenkov detector for proton flux measurement for UA9 project

L. Burmistrov (Orsay, LAL), D. Breton (Orsay, LAL), V. Chaumat (Orsay, LAL), S. Conforti Di Lorenzo (Orsay, LAL), J. Jeglot (Orsay, LAL) et al.

DOI: 10.1109/NSSMIC.2013.6829430

Published in:

The Thin Light Trigger for the UA9 experiment

F. Iacoangeli, V. Bocci, G. Cavoto, L. Recchia, F. Pallotto

DOI: 10.1109/NSSMIC.2013.6829750

Published in:

The loss of ions at beam multiple passage through a bent crystal

A. Babaev (INFN, Rome and Tomsk Polytechnic U.), G. Cavoto (INFN, Rome), S.B. Dabagov (LNF, Dafne Light and LPI, Moscow (main))

DOI: 10.1016/j.nimb.2013.02.018

Published in: Nucl.Instrum.Meth.B 309 (2013), 120-123

Strong reduction of the off-momentum halo in crystal assisted collimation of the SPS beam

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2012.07.006

Published in: Phys.Lett.B 714 (2012), 231-236

A search for the decay modes $B^{+-} \rightarrow h^{+-} \tau^{+-} \nu$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1204.2852 [hep-ex]

DOI: 10.1103/PhysRevD.86.012004
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BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1202.1313 [hep-ex]
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A Beam Profile Monitor for the UA9 Experiment
Francesco Iacoangeli (INFN, Rome), G. Cavoto (INFN, Rome), R. Santacesaria (INFN, Rome), P. Valente (INFN, Rome)
DOI: 10.1109/NSSMIC.2012.6551206
Published in:

Position, timing and particle ID with scintillating fibers read-out by SiPM
Angela Papa (PSI, Villigen), Aldo Antognini (Zurich, ETH), Gianluca Cavoto (INFN, Rome), Emanuele Ripiccini (INFN, Rome)
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BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1201.5677 [hep-ex]
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Published in: Phys.Rev.D 85 (2012), 112009

Searching for $\mu \rightarrow e \gamma$ with MEG
G. Cavoto
DOI: 10.1393/ncc/i2012-11355-9
Published in: Nuovo Cim.C 035 (2012) 06, 97-104, Frascati Phys.Ser. 57 (2013), 97-104

Study of CP violation in Dalitz-plot analyses of $B^0 \rightarrow K^+K^-K^0(S)$, $B^+ \rightarrow K^+K^-K^+$, and $B^+ \rightarrow K^0(S)K^0(S)K^+$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1201.5897 [hep-ex]
DOI: 10.1103/PhysRevD.85.112010
Published in: Phys.Rev.D 85 (2012), 112010

Study of $\bar{B} \rightarrow X_u \ell \bar{\nu}$ decays in \bar{B} events tagged by a fully reconstructed B-meson decay and determination of $|V_{ub}|$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1112.0702 [hep-ex]
DOI: 10.1103/PhysRevD.86.032004
Published in: Phys.Rev.D 86 (2012), 032004

B^0 meson decays to $\rho^0 K^{*0}$, $f_0 K^{*0}$, and $\rho^- K^{*+}$, including higher K^{*} resonances
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1112.3896 [hep-ex]
DOI: 10.1103/PhysRevD.85.072005

Published in: Phys.Rev.D 85 (2012), 072005

Observation and study of the baryonic B-meson decays $B \rightarrow D^{(*)} p \bar{p} \pi$ (π)

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1111.4387 [hep-ex]

DOI: 10.1103/PhysRevD.85.092017

Published in: Phys.Rev.D 85 (2012), 092017

Amplitude analysis and measurement of the time-dependent CP asymmetry of $B^0 \rightarrow K_S^0 K_S^0 K_S^0$ decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1111.3636 [hep-ex]

DOI: 10.1103/PhysRevD.85.054023

Published in: Phys.Rev.D 85 (2012), 054023

Search for the $Z_1(4050)^+$ and $Z_2(4250)^+$ states in $\bar{B}^0 \rightarrow \chi_{c1} K^- \pi^+$ and $B^+ \rightarrow \chi_{c1} K^0_S \pi^+$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1111.5919 [hep-ex]

DOI: 10.1103/PhysRevD.85.052003

Published in: Phys.Rev.D 85 (2012), 052003

Quark flavor mixing, last came the charm

G. Cavoto (INFN, Rome), M. Pelliccioni (INFN, Turin)

DOI: 10.1393/ncr/i2011-10071-6

Published in: Riv.Nuovo Cim. 34 (2011) 11, 643-678

Search for the Decay $D^0 \rightarrow \gamma \gamma$ and Measurement of the Branching Fraction for $D^0 \rightarrow \pi^0 \pi^0$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1110.6480 [hep-ex]

DOI: 10.1103/PhysRevD.85.091107

Published in: Phys.Rev.D 85 (2012), 091107

A Measurement of the Semileptonic Branching Fraction of the B_s Meson

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.85.011101

Published in: Phys.Rev.D 85 (2012), 011101

Search for $\bar{B} \rightarrow \Lambda_c^+ X \ell^- \nu_\ell$ Decays in Events With a Fully Reconstructed B Meson

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1110.6005 [hep-ex]

DOI: 10.1103/PhysRevD.85.011102

Published in: Phys.Rev.D 85 (2012), 011102

Search for CP Violation in the Decay $\tau^- \rightarrow \pi^- K^0_S (\geq 0 \pi^0) \nu_\tau$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1109.1527 [hep-ex]

DOI: 10.1103/PhysRevD.85.031102 , 10.1103/PhysRevD.85.099904

Published in: Phys.Rev.D 85 (2012), 031102, Phys.Rev.D 85 (2012), 099904 (erratum)

Observation of the rare decay $B^+ \rightarrow K^+ \pi^0 \pi^0$ and measurement of the quasi-two body contributions $B^+ \rightarrow K^*(892)^+ \pi^0$, $B^+ \rightarrow f_0(980) K^+$ and $B^+ \rightarrow \chi_{c0} K^+$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1109.0143 [hep-ex]

DOI: 10.1103/PhysRevD.84.092007

Published in: Phys.Rev.D 84 (2011), 092007

Observation of the baryonic B decay $\bar{B}^0 \rightarrow \Lambda_c^+ \bar{\Lambda} K^-$
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 84 (2011), 071102

Study of $\Upsilon(3S,2S) \rightarrow \eta \Upsilon(1S)$ and $\Upsilon(3S,2S) \rightarrow \pi^+ \pi^- \Upsilon(1S)$ hadronic transitions

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1108.5874 [hep-ex]

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Published in: Phys.Rev.D 84 (2011), 092003

Search for hadronic decays of a light Higgs boson in the radiative decay $\Upsilon \rightarrow \gamma A^0$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 107 (2011), 221803

Branching Fraction Measurements of the Color-Suppressed Decays $\bar{B}^0 \rightarrow D^{(*)0} \pi^0$, $D^{(*)0} \eta$, $D^{(*)0} \omega$, and $D^{(*)0} \eta'$ and Measurement of the Polarization in the Decay $\bar{B}^0 \rightarrow D^{*0} \omega$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1107.5751 [hep-ex]

DOI: 10.1103/PhysRevD.84.112007 , 10.1103/PhysRevD.87.039901

Published in: Phys.Rev.D 84 (2011), 112007, Phys.Rev.D 87 (2013) 3, 039901 (erratum)

New limit on the lepton-flavour violating decay $\mu^+ \rightarrow e^+ \gamma$

MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.

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Published in: Phys.Rev.Lett. 107 (2011), 171801

Searches for Rare or Forbidden Semileptonic Charm Decays

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.84.072006

Published in: Phys.Rev.D 84 (2011), 072006

The UA9 experimental layout

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), C. Bracco (CERN), F. Cerutti (CERN) et al.
e-Print: 1106.5861 [physics.acc-ph]
DOI: 10.1088/1748-0221/6/10/T10002
Published in: JINST 6 (2011), T10002

Search for CP violation using T -odd correlations in $D^+ \rightarrow K^+ K^0_S \pi^+ \pi^-$ and $D_s^+ \rightarrow K^+ K^0_S \pi^+ \pi^-$ decays
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Study of di-pion bottomonium transitions and search for the $\chi_{b(1P)}$ state
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 84 (2011), 011104

Amplitude Analysis of $B^0 \rightarrow K^+ \pi^- \pi^0$ and Evidence of Direct CP Violation in $B \rightarrow K^* \pi$ decays
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1105.0125 [hep-ex]
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Measurements of branching fractions and CP asymmetries and studies of angular distributions for $B \rightarrow \phi \phi K$ decays
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1105.5159 [hep-ex]
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Published in: Phys.Rev.D 84 (2011), 012001

Search for $B \rightarrow u$ Transitions in $B^{\pm} \rightarrow [K^{\pm} \pi^{\pm} \pi^0]_D K^{\pm}$ Decays
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1104.4472 [hep-ex]
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Study of radiative bottomonium transitions using converted photons
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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Measurement of the mass and width of the $D(s_1)(2536)^+$ meson
BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
e-Print: 1103.2675 [hep-ex]
DOI: 10.1103/PhysRevD.83.072003
Published in: Phys.Rev.D 83 (2011), 072003

Observation of $\eta_c(1S)$ and $\eta_c(2S)$ decays to $K^+ K^- \pi^+ \pi^- \pi^0$ in two-photon interactions

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.84.012004

Published in: Phys.Rev.D 84 (2011), 012004

Cross Sections for the Reactions $e^+e^- \rightarrow K^+ K^- \pi^+ \pi^-$, $K^+ K^- \pi^0 \pi^0$, and $K^+ K^- K^+ K^-$ Measured Using Initial-State Radiation Events

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1103.3001 [hep-ex]

DOI: 10.1103/PhysRevD.86.012008

Published in: Phys.Rev.D 86 (2012), 012008

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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1011.5477 [hep-ex]

DOI: 10.1103/PhysRevD.83.071103

Published in: Phys.Rev.D 83 (2011), 071103

Evidence for the $h_b(1P)$ meson in the decay $\Upsilon(3S) \rightarrow \pi^0 h_b(1P)$

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

e-Print: 1102.4565 [hep-ex]

DOI: 10.1103/PhysRevD.84.091101

Published in: Phys.Rev.D 84 (2011), 091101

Crystal collimation of hadron beam, the UA9 experiment

G. Cavoto

DOI: 10.1393/ncc/i2011-11031-8

Published in: Nuovo Cim.C 034N06 (2011), 36-40

Comparative results on collimation of the SPS beam of protons and Pb ions with bent crystals

W. Scandale (CERN and Orsay, LAL and INFN, Rome), G. Arduini (CERN), R. Assmann (CERN), C. Bracco (CERN), F. Cerutti (CERN) et al.

DOI: 10.1016/j.physletb.2011.08.023

Published in: Phys.Lett.B 703 (2011), 547-551

Calibration and monitoring of the MEG experiment by a proton beam from a Cockcroft-Walton accelerator

MEG Collaboration • J. Adam et al.

DOI: 10.1016/j.nima.2011.03.048

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Searches for the baryon- and lepton-number violating decays $B^0 \rightarrow \Lambda_c^+ e \ell^-$, $B^+ \rightarrow \Lambda e \ell^+$, and $B^+ \rightarrow \bar{\Lambda} e \ell^+$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1101.3830 [hep-ex]

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Published in: Phys.Rev.D 83 (2011), 091101

Observation of parametric X-rays produced by 400-GeV/c protons in bent crystals

W. Scandale (CERN and Orsay, LAL), G. Arduini (CERN), R. Assmann (CERN), F. Cerutti (CERN), S. Gilardoni (CERN) et al.

DOI: 10.1016/j.physletb.2011.05.060

Published in: Phys.Lett.B 701 (2011), 180-185

The MEG timing counter calibration and performance

M. De Gerone (INFN, Genoa and Genoa U.), S. Dussoni (INFN, Genoa and Genoa U.), K. Fratini (INFN, Genoa and Genoa U.), F. Gatti (INFN, Genoa and Genoa U.), R. Valle (INFN, Genoa and Genoa U.) et al.

DOI: 10.1016/j.nima.2011.02.044

Published in: Nucl.Instrum.Meth.A 638 (2011), 41-46

Measurement of the $\gamma \gamma^* \rightarrow \eta$ and $\gamma \gamma^* \rightarrow \eta'$ transition form factors

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1101.1142 [hep-ex]

DOI: 10.1103/PhysRevD.84.052001

Published in: Phys.Rev.D 84 (2011), 052001

Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B^+ \rightarrow \rho^0 K^{*+}$ and $B^+ \rightarrow f_0(980) K^{*+}$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.4044 [hep-ex]

DOI: 10.1103/PhysRevD.83.051101

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Analysis of the $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$ decay channel

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 83 (2011), 072001

Observation of the Decay $B^{\pm} \rightarrow D_{s1}^{(*)\pm} K^{\pm} \ell^{\pm} \bar{\nu}_{\ell}$

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 107 (2011), 041804

Measurement of partial branching fractions of inclusive charmless B meson decays to K^+ , K^0 , and π^+

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

e-Print: 1012.5031 [hep-ex]

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Dalitz plot analysis of $D_s^+ \rightarrow K^+ K^- \pi^+ \pi^0$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Studies of $\tau \rightarrow \eta K \nu$ and $\tau \rightarrow \eta \pi \nu(\tau)$ at BaBar and a search for a second-class current
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Search for the Decay $B^0 \rightarrow \gamma \gamma$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
e-Print: 1010.2229 [hep-ex]
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Published in: Phys.Rev.D 83 (2011), 032006

Measurement of the $B^0 \rightarrow \pi^+ \ell \ell^+ \nu$ and $B^+ \rightarrow \eta^{(\prime)} \ell \ell^+ \nu$ Branching Fractions, the $B^0 \rightarrow \pi^- \ell \ell^+ \nu$ and $B^+ \rightarrow \eta \ell \ell^+ \nu$ Form-Factor Shapes, and Determination of $|V_{ub}|$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.83.052011
Published in: Phys.Rev.D 83 (2011), 052011

Averages of b -hadron, c -hadron, and τ -lepton properties
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Observation of new resonances decaying to $D \pi$ and $D^* \pi$ in inclusive $e^+ e^-$ collisions near $\sqrt{s} = 10.58$ GeV
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Search for the Rare Decay $B \rightarrow K \bar{\nu} \nu$
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Exclusive Production of $D^+ D^-$, $D^{*+} D^-$, and $D^{*+} D^{*-}$ via $e^+ e^-$ Annihilation with Initial-State-Radiation
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Search for J/ψ in radiative $B \rightarrow J/\psi$ decays
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Search for $B^+ \rightarrow a_1^+(1260) K^{*0}(892)$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Search for Production of Invisible Final States in Single-Photon Decays of $\Upsilon(1S)$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Correlated leading baryon-antibaryon production in $e^+e^- \rightarrow c\bar{c} \rightarrow \Lambda_c^+ \bar{\Lambda}_c^- X$
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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Search for $b \rightarrow u$ transitions in $B^- \rightarrow DK^-$ and D^*K^- Decays
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Study of $B \rightarrow X\gamma$ Decays and Determination of $|V_{td}|/|V_{ts}|$
BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.
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Search for $B^+ \rightarrow D^+ K^0$ and $B^+ \rightarrow D^+ K^{*0}$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Evidence for direct CP violation in the measurement of the Cabibbo-Kobayashi-Maskawa angle γ with $B^+ \rightarrow D^{(*)} K^{*-}$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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Measurement of D^0 -anti D^0 mixing parameters using $D^0 \rightarrow K(S)^0 \pi^+ \pi^-$ and $D^0 \rightarrow K(S)^0 K^+ K^-$ decays

BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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BaBar Collaboration • P. del Amo Sanchez (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.82.031101

Published in: Phys.Rev.D 82 (2010), 031101

Measurement of the Branching Fraction for $D^+ \rightarrow \tau^+ \nu_\tau$ and Extraction of the Decay Constant f_{D_s}

BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.

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Measurement of the $\gamma \rightarrow \eta_c$ transition form factor
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{BaBar}
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BaBar Collaboration • J.P. Lees (Annecy, LAPP) et al.
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First results on the SPS beam collimation with bent crystals
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A Search for $B^+ \rightarrow \ell^+ \nu_\ell$ Recoiling Against $B^0 \rightarrow \ell^+ \bar{\nu}_\ell X$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation and study of baryonic B decays: $B \rightarrow D^{(*)} p \text{ anti-}p$, $D^{(*)} p \text{ anti-}p \pi$, and $D^{(*)} p \text{ anti-}p \pi \pi$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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MEG Collaboration • J. Adam (PSI, Villigen and Zurich, ETH) et al.

e-Print: 0908.2594 [hep-ex]

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B meson decays to charmless meson pairs containing eta or eta' mesons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Flavor Physics in the Quark Sector

Mario Antonelli (Frascati), David Mark Asner (Carleton U.), D. Bauer (Imperial Coll., London), Thomas G. Becher (Fermilab), M. Beneke (Aachen, Tech. Hochsch.) et al.
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Observation of the baryonic B-decay $\text{anti-B}^0 \rightarrow \Lambda^0(c)^+ \text{anti-p} K^- \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.80.051105
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Measurement of Branching Fractions and CP and Isospin Asymmetries in $B \rightarrow K^*(892)\gamma$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for Dimuon Decays of a Light Scalar Boson in Radiative Transitions $\text{Upsilon} \rightarrow \gamma A_0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for B^0 Meson Decays to $\pi^0 K^0(S) K^0(S)$, $\eta K^0(S) K^0(S)$, and $\eta\text{-prime} K^0(S) K^0(S)$

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Measurement of $|V_{cb}|$ and the Form-Factor Slope in anti-B \rightarrow D l- anti- ν Decays in Events Tagged by a Fully Reconstructed B Meson
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DOI: 10.1103/PhysRevLett.104.011802
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Improved limits on lepton flavor violating tau decays to l phi, l rho, l K* and l anti-K*
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for b \rightarrow u transitions in B0 \rightarrow D0 K*0 decays
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for Second-Class Currents in tau- \rightarrow omega pi- nu(tau)
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Search for the Rare Leptonic Decays B+ \rightarrow l+ nu(l) (l=e,mu)
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 79 (2009), 091101

Exclusive Initial-State-Radiation Production of the D anti-D, D* anti-D*, and D* anti-D* Systems
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Evidence for the eta(b)(1S) Meson in Radiative Upsilon(2S) Decay
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Observation of Multiple Volume Reflection of Ultrarelativistic Protons by a Sequence of Several Bent Silicon Crystals

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.
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Measurement of the Semileptonic Decays $B \rightarrow D \tau^- \bar{\nu}(\tau)$ and $B \rightarrow D^* \tau^- \bar{\nu}(\tau)$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0902.2660 [hep-ex]
DOI: 10.1103/PhysRevD.79.092002
Published in: Phys.Rev.D 79 (2009), 092002

Dalitz Plot Analysis of $B^+ \rightarrow \pi^+ \pi^+ \pi^-$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 79 (2009), 072006

Measurement of Time-Dependent CP Asymmetry in $B^0 \rightarrow c \bar{c} K^{*0}$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.79.072009
Published in: Phys.Rev.D 79 (2009), 072009

Search for Dimuon Decays of a Light Scalar in Radiative Transitions $\tau(3S) \rightarrow \gamma A^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Improved Measurement of $B^+ \rightarrow \rho^+ \rho^0$ and Determination of the Quark-Mixing Phase Angle α

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevLett.102.141802
Published in: Phys.Rev.Lett. 102 (2009), 141802

Evidence for $B^+ \rightarrow \bar{K}^{*0} K^{*+}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.79.051102
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Search for Lepton Flavor Violating Decays $\tau \rightarrow l^- K^0(s)$ with the BABAR Experiment

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.79.012004
Published in: Phys.Rev.D 79 (2009), 012004

Observation of B Meson Decays to ωK^* and Improved Measurements for $\omega \rho$ and ωf_0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.79.052005

Published in: Phys.Rev.D 79 (2009), 052005

Experimental study of the radiation emitted by 180-GeV/c electrons and positrons volume-reflected in a bent crystal

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.

DOI: 10.1103/PhysRevA.79.012903

Published in: Phys.Rev.A 79 (2009), 012903

Dalitz Plot Analysis of $B^- \rightarrow D^+ \pi^- \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0901.1291 [hep-ex]

DOI: 10.1103/PhysRevD.79.112004

Published in: Phys.Rev.D 79 (2009), 112004

Observation of nuclear dechanneling for high-energy protons in crystals

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the decay $B^+ \rightarrow K_0(S) K_0(S) \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0811.1979 [hep-ex]

DOI: 10.1103/PhysRevD.79.051101

Published in: Phys.Rev.D 79 (2009), 051101

Search for the $Z(4430)^-$ at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0811.0564 [hep-ex]

DOI: 10.1103/PhysRevD.79.112001

Published in: Phys.Rev.D 79 (2009), 112001

A Search for $B^+ \rightarrow \ell^+ \nu_{\ell}$ Recoiling Against $B^+ \rightarrow D^0 \ell^+ \bar{\nu}_{\ell}$ X

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.4027 [hep-ex]

Measurement of the $e^+ e^- \rightarrow b \bar{b}$ cross section between $\sqrt{s} = 10.54$ -GeV and 11.20-GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.4120 [hep-ex]

DOI: 10.1103/PhysRevLett.102.012001
Published in: Phys.Rev.Lett. 102 (2009), 012001

Measurements of the Semileptonic Decays $\bar{B} \rightarrow D \ell \bar{\nu}$ and $\bar{B} \rightarrow D^* \ell \bar{\nu}$
Using a Global Fit to $D \ell \bar{\nu}$ Final States

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.0828 [hep-ex]

DOI: 10.1103/PhysRevD.79.012002

Published in: Phys.Rev.D 79 (2009), 012002

Evidence for $X(3872) \rightarrow \psi_{2S} \gamma$ in $B^{\pm} \rightarrow X_{3872} K^{\pm}$ decays, and a
study of $B \rightarrow c \bar{c} \gamma K$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of time dependent CP asymmetry parameters in B^0 meson decays to $\omega K^0(S)$,
 η' K^0 , and $\pi^0 K^0(S)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0809.1174 [hep-ex]

DOI: 10.1103/PhysRevD.79.052003

Published in: Phys.Rev.D 79 (2009), 052003

Time-Dependent and Time-Integrated Angular Analysis of $B \rightarrow \phi K_S \pi^0$ and $B \rightarrow \phi K^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.3586 [hep-ex]

DOI: 10.1103/PhysRevD.78.092008

Published in: Phys.Rev.D 78 (2008), 092008

Measurements of time-dependent CP asymmetries in $B^0 \rightarrow D^{(*)} + D^{(*)} -$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1866 [hep-ex]

DOI: 10.1103/PhysRevD.79.032002

Published in: Phys.Rev.D 79 (2009), 032002

Update of Time-Dependent CP Asymmetry Measurements in $B \rightarrow c \bar{c} s$ Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1903 [hep-ex]

Measurement of Branching Fractions and CP and Isospin Asymmetries in $B \rightarrow K^{*} \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.1915 [hep-ex]

Search for the highly suppressed decays $B^{\pm} \rightarrow K^{\pm} \pi^{\pm} \pi^{\mp}$ and $B^{\pm} \rightarrow K^{\pm} \pi^{\pm} \pi^{\pm}$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0808.0900 [hep-ex]

DOI: 10.1103/PhysRevD.78.091102

Published in: Phys.Rev.D 78 (2008), 091102

Observation of $B^0 \rightarrow \chi(c_0) K^0$ and evidence for $B^+ \rightarrow \chi(c_0) K^{*+}$
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0808.1487 [hep-ex]
DOI: 10.1103/PhysRevD.78.091101
Published in: Phys.Rev.D 78 (2008), 091101

Measurement of the Branching Fractions of anti-B $\rightarrow D^{*+} l^- \text{ anti-}\nu(l)$ Decays in Events Tagged
by a Fully Reconstructed B Meson
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0528 [hep-ex]
DOI: 10.1103/PhysRevLett.101.261802
Published in: Phys.Rev.Lett. 101 (2008), 261802

Evidence for B semileptonic decays into the charmed baryon $\Lambda_b(c)^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0011 [hep-ex]

Search for $B \rightarrow K^{*+} \nu \bar{\nu}$ decays
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0808.1338 [hep-ex]
DOI: 10.1103/PhysRevD.78.072007
Published in: Phys.Rev.D 78 (2008), 072007

Dalitz Plot Analysis of $D_s^+ \rightarrow \pi^+ \pi^- \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0971 [hep-ex]
DOI: 10.1103/PhysRevD.79.032003
Published in: Phys.Rev.D 79 (2009), 032003

Measurement of the Branching Fractions of the Radiative Charm Decays $D^0 \rightarrow \text{anti-}K^0 \gamma$
and $D^0 \rightarrow \pi \gamma$
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0808.1838 [hep-ex]
DOI: 10.1103/PhysRevD.78.071101
Published in: Phys.Rev.D 78 (2008), 071101

Measurements of Branching Fractions for $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$
, and $B^0 \rightarrow \omega \gamma$
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0808.1379 [hep-ex]
DOI: 10.1103/PhysRevD.78.112001
Published in: Phys.Rev.D 78 (2008), 112001

Study of the $\pi^+ \pi^- J/\psi$ Mass Spectrum via Initial-State Radiation at BABAR
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.1543 [hep-ex]

Measurement of CP-Violating Asymmetries in the $B^0 \rightarrow K^+ K^- K_s^0$ Dalitz Plot
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0700 [hep-ex]

Search for $B^+ \rightarrow K^{*0} \ell^+ \nu_\ell$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0579 [hep-ex]

Measurement of the $B^+ \rightarrow \omega \ell^+ \nu_\ell$ and $B^+ \rightarrow \eta \ell^+ \nu_\ell$
Branching Fractions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.3524 [hep-ex]
DOI: 10.1103/PhysRevD.79.052011
Published in: Phys.Rev.D 79 (2009), 052011

Measurement of Semileptonic B Decays into Orbitally-Excited Charmed Mesons
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0333 [hep-ex]
DOI: 10.1103/PhysRevLett.103.051803
Published in: Phys.Rev.Lett. 103 (2009), 051803

Averages of b -Hadron and c -Hadron Properties at the End of 2007
Heavy Flavor Averaging Group • E. Barberio et al.
e-Print: 0808.1297 [hep-ex]

Search for $B^+ \rightarrow \mu^+ \nu_\mu$ with inclusive reconstruction at BaBar
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4187 [hep-ex]

Measurement of the Branching Fraction, Polarization, and CP Asymmetries in $B^0 \rightarrow \rho^0 \rho^0$ Decay, and Implications for the CKM Angle α
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0807.4977 [hep-ex]
DOI: 10.1103/PhysRevD.78.071104
Published in: Phys.Rev.D 78 (2008), 071104

Measurement of CP Asymmetries and Branching Fractions in $B^0 \rightarrow \pi^+ \pi^-$, $B^0 \rightarrow K^+ \pi^-$, $B^0 \rightarrow \pi^0 \pi^0$, $B^0 \rightarrow K^0 \pi^0$ and Isospin Analysis of $B \rightarrow \pi \pi$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching fractions of B^0 decays to $K(1)(1270)^+ \pi^-$ and $K(1)(1400)^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4760 [hep-ex]

Measurement of $|V_{cb}|$ and the form-factor slope for $\text{anti-}B \rightarrow D \ell^+ \text{anti-}\nu_\ell$ decays on the recoil of fully reconstructed B mesons
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.4978 [hep-ex]

Measurements of $B(\text{anti-}B^0 \rightarrow \Lambda_c^+ \text{anti-}p)$ and $B(B^- \rightarrow \Lambda_c^+ \text{anti-}p \pi^-)$ and Studies of $\Lambda_c^+ \pi^-$ Resonances
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0807.4974 [hep-ex]

DOI: 10.1103/PhysRevD.78.112003
Published in: Phys.Rev.D 78 (2008), 112003

Study of the decay $D^+_{s1} \rightarrow K^+ K^- e^+ \nu_e$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.1599 [hep-ex]
DOI: 10.1103/PhysRevD.78.051101
Published in: Phys.Rev.D 78 (2008), 051101

Measurement of Time-Dependent CP Asymmetry in $B^0 \rightarrow K^0_S \pi^0 \gamma$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.3103 [hep-ex]
DOI: 10.1103/PhysRevD.78.071102
Published in: Phys.Rev.D 78 (2008), 071102

Measurement of the branching fractions of the color-suppressed decays $\bar{B}^0 \rightarrow D^0 \pi^0$,
 $D^*0 \pi^0$, $D^0 \eta$, $D^*0 \eta$, $D^0 \omega$, $D^*0 \omega$, $D^0 \eta'$ and $D^*0 \eta'$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.0697 [hep-ex]

Amplitude Analysis of the Decay $B^0 \rightarrow K^+ \pi^- \pi^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of $B(\tau^- \rightarrow \bar{K}^0 \pi^- \nu_\tau)$ using the BaBar detector
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0808.1121 [hep-ex]
DOI: 10.1016/j.nuclphysbps.2009.03.034
Published in: Nucl.Phys.B Proc.Suppl. 189 (2009), 193-198

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Upsilon(1S) decay
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0807.2014 [hep-ex]
DOI: 10.1103/PhysRevD.78.112002
Published in: Phys.Rev.D 78 (2008), 112002

Measurement of Ratios of Branching Fractions and CP-Violating Asymmetries of $B^{\pm} \rightarrow D^{*\pm} K^{\pm}$ Decays
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
e-Print: 0807.2408 [hep-ex]
DOI: 10.1103/PhysRevD.78.092002
Published in: Phys.Rev.D 78 (2008), 092002

Searches for B meson decays to phi phi, phi rho, phi f0(980), and f0(980) f0(980) final states
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0807.3935 [hep-ex]
DOI: 10.1103/PhysRevLett.101.201801
Published in: Phys.Rev.Lett. 101 (2008), 201801

Measurement of $D^0 - \bar{D}^0$ mixing from a time-dependent amplitude analysis of $D^0 \rightarrow K^+ \pi^- \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 103 (2009), 211801

Search for Invisible Decays of a Light Scalar in Radiative Transitions $\Upsilon_{3S} \rightarrow \gamma A_0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0808.0017 [hep-ex]

Search for Second-Class Currents in $\tau^- \rightarrow \omega \pi^- \nu_\tau$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4900 [hep-ex]

Observation of the bottomonium ground state in the decay $\Upsilon_{3S} \rightarrow \gamma \eta_b$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0807.1086 [hep-ex]

DOI: 10.1103/PhysRevLett.101.071801 , 10.1103/PhysRevLett.102.029901 (erratum)

Published in: Phys.Rev.Lett. 101 (2008), 071801, Phys.Rev.Lett. 102 (2009), 029901 (erratum)

Measurement of $B \rightarrow X \gamma$ Decays and Determination of $|V(td)/V(ts)|$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4975 [hep-ex]

DOI: 10.1103/PhysRevLett.102.161803

Published in: Phys.Rev.Lett. 102 (2009), 161803

Direct CP, Lepton Flavor and Isospin Asymmetries in the Decays $B \rightarrow K^{(*)} \ell^+ \ell^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0807.4119 [hep-ex]

DOI: 10.1103/PhysRevLett.102.091803

Published in: Phys.Rev.Lett. 102 (2009), 091803

Search for $B^0 \rightarrow K^{*+} K^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0806.4467 [hep-ex]

DOI: 10.1103/PhysRevD.78.051103

Published in: Phys.Rev.D 78 (2008), 051103

Observation and Polarization Measurements of $B^{\pm} \rightarrow \phi K_{1}^{\pm}$ and $B^{\pm} \rightarrow \phi K_{2}^{*\pm}$

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0806.4419 [hep-ex]

DOI: 10.1103/PhysRevLett.101.161801

Published in: Phys.Rev.Lett. 101 (2008), 161801

Observation of $e^+ e^- \rightarrow \rho^+ \rho^-$ near $\sqrt{s} = 10.58$ -GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0806.3893 [hep-ex]

DOI: 10.1103/PhysRevD.78.071103

Published in: Phys.Rev.D 78 (2008), 071103

Deflection of 400 GeV/c proton beam with bent silicon crystals at the CERN Super Proton Synchrotron

Walter Scandale (CERN), Alberto Carnera (INFN, Legnaro and Padua U.), Gianantonio Della Mea (INFN, Legnaro and Trento U.), Davide De Salvador (INFN, Legnaro and Padua U.), Riccardo Milan (INFN, Legnaro) et al.

DOI: 10.1103/PhysRevSTAB.11.063501

Published in: Phys.Rev.ST Accel.Beams 11 (2008), 063501

Measurements of $B \rightarrow \pi, \eta, \eta'$ $\ell \bar{\nu}_\ell$ Branching Fractions and Determination of $|V_{ub}|$ with Semileptonically Tagged B Mesons

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0805.2408 [hep-ex]

DOI: 10.1103/PhysRevLett.101.081801

Published in: Phys.Rev.Lett. 101 (2008), 081801

Constraints on the CKM angle γ in $B^0 \rightarrow \text{anti-}D^0 (D^0) K^{*0}$ with a Dalitz analysis of $D^0 \rightarrow K(S) \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.2001 [hep-ex]

DOI: 10.1103/PhysRevD.79.072003

Published in: Phys.Rev.D 79 (2009), 072003

Branching Fractions and CP-Violating Asymmetries in Radiative B Decays to $\eta K \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.1317 [hep-ex]

DOI: 10.1103/PhysRevD.79.011102

Published in: Phys.Rev.D 79 (2009), 011102

A Measurement of CP Asymmetry in $B \rightarrow s \gamma$ using a Sum of Exclusive Final States

BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.

e-Print: 0805.4796 [hep-ex]

DOI: 10.1103/PhysRevLett.101.171804

Published in: Phys.Rev.Lett. 101 (2008), 171804

Measurement of the Mass Difference $m(B^0) - m(B^+)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.0497 [hep-ex]

DOI: 10.1103/PhysRevD.78.011103

Published in: Phys.Rev.D 78 (2008), 011103

Observation of $B^+ \rightarrow b(1)^+ K^0$ and search for B-meson decays to $b(1)^0 K^0$ and $b(1) \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0805.1217 [hep-ex]

DOI: 10.1103/PhysRevD.78.011104

Published in: Phys.Rev.D 78 (2008), 011104

Study of B-meson decays to $\eta(c) K^*$, $\eta(c)(2S) K^*$ and $\eta(c) \gamma K^*$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0804.1208 [hep-ex]

DOI: 10.1103/PhysRevD.78.012006
Published in: Phys.Rev.D 78 (2008), 012006

Evidence for CP violation in $B^0 \rightarrow J/\psi \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.0896 [hep-ex]
DOI: 10.1103/PhysRevLett.101.021801
Published in: Phys.Rev.Lett. 101 (2008), 021801

Observation of $B^+ \rightarrow \eta \rho^+$ and search for B^0 decays to $\eta' \eta$, $\eta \pi^0$, $\eta' \pi^0$, and $\omega \pi^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.2422 [hep-ex]
DOI: 10.1103/PhysRevD.78.011107
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Improved measurement of the CKM angle γ in $B^{\mp} \rightarrow D^{(*)} K^{(*)\mp}$ decays with a Dalitz plot analysis of D decays to $K^0_S \pi^+ \pi^-$ and $K^0_S K^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.2089 [hep-ex]
DOI: 10.1103/PhysRevD.78.034023
Published in: Phys.Rev.D 78 (2008), 034023

Angular Distributions in the Decays $B \rightarrow K^* l^+ l^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.4412 [hep-ex]
DOI: 10.1103/PhysRevD.79.031102
Published in: Phys.Rev.D 79 (2009), 031102

Study of B Meson Decays with Excited eta and eta-prime Mesons
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0804.0411 [hep-ex]
DOI: 10.1103/PhysRevLett.101.091801
Published in: Phys.Rev.Lett. 101 (2008), 091801

Measurement of the $\tau^- \rightarrow \eta \pi^- \pi^0 \nu_{\tau}$ Branching Fraction and a Search for a Second-Class Current in the $\tau^- \rightarrow \eta' \pi^- \nu_{\tau}$ Decay
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.0772 [hep-ex]
DOI: 10.1103/PhysRevD.77.112002
Published in: Phys.Rev.D 77 (2008), 112002

Measurement of the Branching Fractions of the Rare Decays $B^0 \rightarrow D_s^* (\pi^+ \pi^-)$, $B^0 \rightarrow D_s^* (\pi^+ \rho^-)$, and $B^0 \rightarrow D_s^* (\pi^+ K^0)$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0803.4296 [hep-ex]
DOI: 10.1103/PhysRevD.78.032005
Published in: Phys.Rev.D 78 (2008), 032005

Measurement of the Spin of the $\Xi(1530)$ Resonance

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0803.1863 [hep-ex]

DOI: 10.1103/PhysRevD.78.034008

Published in: Phys.Rev.D 78 (2008), 034008

Evidence for Direct CP Violation from Dalitz-plot analysis of $B^{\pm} \rightarrow K^{\pm} \pi^{\mp} \pi^{\pm}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0803.4451 [hep-ex]

DOI: 10.1103/PhysRevD.78.012004

Published in: Phys.Rev.D 78 (2008), 012004

A Study of $B \rightarrow X(3872) K$, with $X_{3872} \rightarrow J/\Psi \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0803.2838 [hep-ex]

DOI: 10.1103/PhysRevD.77.111101

Published in: Phys.Rev.D 77 (2008), 111101

Study of the Exclusive Initial-State-Radiation Production of the D anti-D System

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0710.1371 [hep-ex]

Measurement of CP observables in $B^{\pm} \rightarrow D^0_{CP} K^{\pm}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0802.4052 [hep-ex]

DOI: 10.1103/PhysRevD.77.111102

Published in: Phys.Rev.D 77 (2008), 111102

Search for CP Violation in Neutral D Meson Cabibbo-suppressed Three-body Decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0802.4035 [hep-ex]

DOI: 10.1103/PhysRevD.78.051102

Published in: Phys.Rev.D 78 (2008), 051102

High-Efficiency Deflection of High-Energy Protons through Axial Channeling in a Bent Crystal

Walter Scandale (CERN), Alberto Vomiero (INFN, Brescia), Stefano Baricordi (INFN, Ferrara and Ferrara U.), Pietro Dalpiaz (INFN, Ferrara and Ferrara U.), Massimiliano Fiorini (INFN, Ferrara and Ferrara U.) et al.

DOI: 10.1103/PhysRevLett.101.164801

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Searches for the decays $B^0 \rightarrow \ell^{\pm} \tau^{\mp}$ and $B^{\pm} \rightarrow \ell^{\pm} \nu$ ($\ell=e, \mu$) using hadronic tag reconstruction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0801.0697 [hep-ex]

DOI: 10.1103/PhysRevD.77.091104

Published in: Phys.Rev.D 77 (2008), 091104

Volume reflection dependence of 400-GeV/c protons on the bent crystal curvature

W. Scandale (CERN), A. Vomiero (INFN, Brescia), S. Baricordi (INFN, Ferrara and Ferrara U.), P. Dalpiaz (INFN, Ferrara and Ferrara U.), M. Fiorini (INFN, Ferrara and Ferrara U.) et al.

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Published in: Phys.Rev.Lett. 101 (2008), 234801

Double volume reflection of a proton beam by a sequence of two bent crystals

Walter Scandale (CERN), Alberto Carnera (INFN, Legnaro and Padua U.), Gianantonio Della Mea (INFN, Legnaro and Trento U.), Davide De Salvador (INFN, Legnaro and Padua U.), Riccardo Milan (INFN, Legnaro) et al.

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Apparatus to study crystal channeling and volume reflection phenomena at the SPS H8 beamline

Walter Scandale (CERN), Ilias Efthymiopoulos (CERN), Dean A. Still (Fermilab), Alberto Carnera (Fermilab and Padua U.), Gianantonio Della Mea (INFN, Legnaro and Trento U.) et al.

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Measurement of the Decay $B^0 \rightarrow D^* e^- \bar{\nu}_e$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of $D^0 - \bar{D}^0$ mixing using the ratio of lifetimes for the decays $D^0 \rightarrow K^- \pi^+$, $K^- K^+$, and $\pi^- \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.78.011105

Published in: Phys.Rev.D 78 (2008), 011105

Time-dependent Dalitz plot analysis of $B^0 \rightarrow D \pi K^0$ π^+ - decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0712.3469 [hep-ex]

DOI: 10.1103/PhysRevD.77.071102

Published in: Phys.Rev.D 77 (2008), 071102

A Measurement of the branching fractions of exclusive $B \rightarrow D^{(*)} (\pi) \ell^- \bar{\nu}_\ell$ decays in events with a fully reconstructed B meson

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: 0712.3503 [hep-ex]

DOI: 10.1103/PhysRevLett.100.151802

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Search for decays of B^0 mesons into $e^+ e^-$, $\mu^+ \mu^-$, and $e \mu$ final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for lepton flavor violating decays $\tau^{\pm} \rightarrow l^{\pm} \omega$ ($l = e, \mu$)

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0711.0980 [hep-ex]
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0711.2713 [hep-ex]
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Observation of $Y(3940) \rightarrow J/\psi \omega$ in $B \rightarrow J/\psi \omega K$ at BABAR

BaBar Collaboration • Bernard Aubert et al.
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A Study of anti- $B \rightarrow \Xi(c) \text{ anti-}\Lambda(c)$ and anti- $B \rightarrow \text{ anti-}\Lambda(c) \text{ anti-}\Lambda(c)$ anti- K decays at BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of the semileptonic decays $B \rightarrow D^{(*)} \tau^{-} \bar{\nu}_{\tau}$ and evidence for $B \rightarrow D \tau^{-} \bar{\nu}_{\tau}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.100.061803

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Study of $e^{+} e^{-} \rightarrow \Lambda \bar{\Lambda}, \Lambda \bar{\Sigma}^0, \Sigma^0 \bar{\Sigma}^0$ using initial state radiation with BABAR

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Observation of $B^+ \rightarrow a(1)^+(1260) K^0$ and $B^0 \rightarrow a(1)^-(1260) K^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.99.201801

Published in: Phys.Rev.Lett. 99 (2007), 201801

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 99 (2007), 251803

Observation of $B^0 \rightarrow K^0 \bar{K}^0$ and search for $B^0 \rightarrow K^0 K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.100.081801

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Measurement of $\cos^2 \beta$ in $B^0 \rightarrow D^{(*)} h^0$ Decays with a Time-Dependent Dalitz Plot Analysis of $D \rightarrow K^0_S \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 99 (2007), 231802

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0708.1630 [hep-ex]

Improved Measurement of Time-Dependent CP Asymmetries and the CP-Odd Fraction in the
Decay $B^0 \rightarrow D^{*+} D^{*-}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.76.111102
Published in: Phys.Rev.D 76 (2007), 111102

Search for $B \rightarrow u$ transitions in $B^{\pm} \rightarrow [K^{\pm} \pi^{\pm} \pi^0]$ (D^{\pm}) K^{\pm}
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0708.0182 [hep-ex]
DOI: 10.1103/PhysRevD.76.111101
Published in: Phys.Rev.D 76 (2007), 111101

Measurements of Partial Branching Fractions for $\bar{B} \rightarrow X_u \ell \bar{\nu}$ and
Determination of $|V_{ub}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the Branching Fractions of Exclusive $\bar{B} \rightarrow D/D^*/D(*) \pi \ell \bar{\nu}$
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of the Branching Fractions of $B^0 \rightarrow K^0 K^+ K^-$, $B^0 \rightarrow K^0 \pi^+ K^-$,
 $B^0 \rightarrow K^0 K^+ \pi^-$, and $B^0 \rightarrow K^0 \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of The Time-Dependent CP Asymmetry in $B^0 \rightarrow K^*0 \gamma$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 77 (2008), 011102

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Evidence for $b \rightarrow d \gamma$ Transitions From a Sum of Exclusive Final States in the Hadronic
Final State Mass Range $1.0\text{-GeV}/c^2 < M(X(d)) < 1.8\text{-GeV}/c^2$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching fraction and CP asymmetries in $B^{+} \rightarrow D^0_{CP} K^{-}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: 0708.1534 [hep-ex]

Measurement of the $B^0 \rightarrow X(u) l^+ \nu(l)$ decays near the kinematic endpoint of the lepton
spectrum and search for violation of isospin symmetry
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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The $e^+ e^- \rightarrow 2(\pi^+ \pi^-) \pi^0, 2(\pi^+ \pi^-) \eta, K^+ K^- \pi^+ \pi^- \pi^0$ and $K^+ K^- \pi^+ \pi^- \eta$ Cross Sections
Measured with Initial-State Radiation
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Observation of B-meson decays to $b(1) \pi$ and $b(1) K$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 99 (2007), 241803

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.76.071102

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Charm Dalitz Analyses

Gianluca Cavoto (Rome U. and INFN, Rome)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.76.091102

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Gianluca Cavoto (Rome U. and INFN, Rome), Robert Fleischer (CERN), Karim Trabelsi (KEK, Tsukuba), Jure Zupan (Ljubljana U. and Stefan Inst., Ljubljana)

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Branching fraction and CP-violation charge asymmetry measurements for B-meson decays to ηK^+ , $\eta \pi^+$, $\eta' K$, $\eta' \pi^+$, ωK , and $\omega \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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The $e^+ e^- \rightarrow K^+ K^- \pi^+ \pi^-$, $K^+ K^- \pi^0 \pi^0$ and $K^+ K^- K^+ K^-$ cross-sections measured with initial-state radiation
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with an angular analysis
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Gianluca Cavoto (INFN, Rome)
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of CP Violation Parameters with a Dalitz Plot Analysis of $B^{\pm} \rightarrow D(\pi^{\pm} \pi^{\mp}) K^{\pm}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of CP violation in $B^0 \rightarrow K^{\{+\}} \pi^{\{-\}}$ and $B^0 \rightarrow \pi^{\{+\}} \pi^{\{-\}}$
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Measurement of the relative branching fractions of $\bar{B} \rightarrow D/D^*/D^{**} \ell^{\{-\}} \bar{\nu}$ ($\ell^{\{+\}}$) decays in events with a fully reconstructed B meson
BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
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Improved measurement of CP violation in neutral B decays to $c \text{ anti-}c s$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Paris U., VI-VII) et al.
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Measurement of CP Asymmetry in $B^0 \rightarrow K_s \pi^0 \pi^0$ Decays
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Measurement of CP Asymmetries in $B^0 \rightarrow K^0_S K^0_S K^0_S$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of $B^{+} \rightarrow \rho^{+} K^0$ and Measurement of its Branching Fraction and Charge Asymmetry
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^{\pm} \rightarrow \rho^{\pm} \pi^0$ Branching Fraction and Direct CP Asymmetry
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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High-efficiency volume reflection of an ultrarelativistic proton beam with a bent silicon crystal
W. Scandale (CERN), D.A. Still (Fermilab), A. Carnera (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia), G. Della Mea (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia), D. De Salvador (INFN, Legnaro and Padua U. and Trento U. and INFN, Brescia) et al.
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Measurement of the $B^0 \rightarrow \pi^{\pm} \ell^{\pm} \nu$ form-factor shape and branching fraction, and determination of $|V_{ub}|$ with a loose neutrino reconstruction technique
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Evidence for $B^0 \rightarrow \rho^0 \rho^0$ decay and implications for the CKM angle α
BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.
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Branching fraction measurements of $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Measurements of CP-Violating Asymmetries in $B^0 \rightarrow a^{-(1)}(1260) \pi^{\mp}$ decays

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Observation of the Exclusive Reaction $e^+ e^- \rightarrow \phi \eta$ at $\sqrt{s} = 10.58$ -GeV

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of B Decays to $\phi K \gamma$

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Search for Lepton Flavor Violating Decays $\tau^{\pm} \rightarrow \ell^{\pm} \pi^0$, $\ell^{\pm} \eta$, $\ell^{\pm} \eta'$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Evidence of a broad structure at an invariant mass of 4.32- GeV/c^2 in the reaction $e^+ e^-$

$\rightarrow \pi^+ \pi^- \psi_{2S}$ measured at BaBar

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Structure at 2175-MeV in $e^+ e^- \rightarrow \phi f_0(980)$ Observed via Initial-State Radiation

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Vector-tensor and vector-vector decay amplitude analysis of $B^0 \rightarrow \phi K^0$

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Branching fraction measurement of $B^0 \rightarrow D^{(*)} + \pi^-$, $B^- \rightarrow D^{(*)} 0 \pi^-$ and isospin analysis of $\bar{B} \rightarrow D^{(*)} \pi$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 75 (2007), 031101

Inclusive $\Lambda(c)^+$ Production in $e^+ e^-$ Annihilations at $s^{1/2} = 10.54$ -GeV and in $\Upsilon(4S)$ Decays

BaBar Collaboration • Bernard Aubert (Savoie U. and Annecy, LAPP) et al.

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Published in: Phys.Rev.D 75 (2007), 012003

Measurement of the absolute branching fractions $B \rightarrow D\pi$, $D^*\pi$, D^{π} with a missing mass method

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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DOI: 10.1103/PhysRevD.74.111102

Published in: Phys.Rev.D 74 (2006), 111102

Observation of $B^{*+} \rightarrow \phi \phi K^{*+}$ and evidence for $B^0 \rightarrow \phi \phi K^0$ below $\sqrt{s_{\text{c}}}$ threshold

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 97 (2006), 261803

Observation of CP violation in $B^0 \rightarrow \eta' K^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved Measurements of the Branching Fractions for $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow K^+ \pi^-$, and a Search for $B^0 \rightarrow K^+ K^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 75 (2007), 012008

Measurement of the Branching Fraction and Time-Dependent CP Asymmetry in the Decay $B^0 \rightarrow D^{*+} D^{*-} K^0_{\text{S}}$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Search for Charmonium States Decaying to J/ψ γ γ Using Initial-State Radiation Events

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0608004 [hep-ex]

Measurement of the $B^0 \rightarrow \Lambda^0 \bar{p} \pi^0$ Branching Fraction and Study of the Decay Dynamics

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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A Search for $B^+ \rightarrow \tau^+ \nu$ Recoiling Against $B^- \rightarrow D^0 \ell^- \bar{\nu}$ ($\ell = e, \mu$)

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0608019 [hep-ex]

Observation of $B^+ \rightarrow \bar{K}^0 K^+$ and $B^0 \rightarrow K^0 \bar{K}^0$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Published in: Phys.Rev.Lett. 97 (2006), 171805

Measurement of the CP asymmetry and branching fraction of $B^0 \rightarrow \rho^0 K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Precise Branching Ratio Measurements of the Decays $D^0 \rightarrow \pi^- \pi^+ \pi^0$ and $D^0 \rightarrow K^- K^+ \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.74.091102

Published in: Phys.Rev.D 74 (2006), 091102

Observation of an excited charm baryon $\Omega(C)^*$ decaying to $\Omega(C) \gamma$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Measurement of branching fractions and charge asymmetries in B decays to an eta meson and a K^* meson

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Search for D^0 -anti- D^0 Mixing and Branching-Ratio Measurement in the Decay $D^0 \rightarrow K^+ \pi^- \pi^0$

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Measurement of $\cos_{2\beta}$ in $B^0 \rightarrow D^{(*)} \pi^0$ decays with a time-dependent Dalitz plot analysis of $D^0 \rightarrow K^0_s \pi^+ \pi^-$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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A Study of $\Xi(c)(2980)^+$ and $\Xi(c)(3077)^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of branching fraction, polarization, and charge asymmetry of $B^{\pm} \rightarrow \rho^{\pm} \rho^0$ and a search for $B^{\pm} \rightarrow \rho^{\pm} \rho^0 f_0(980)$

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Measurement of B Decays to ϕ K γ

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Measurement of the $B^0 \rightarrow \pi^{\pm} \ell^{\pm} \nu$ form-factor shape and branching fraction, and determination of $|V_{ub}|$ with a loose neutrino reconstruction technique

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of Decay Amplitudes of $B \rightarrow (\bar{c} s) K^{*}$ with an angular analysis, for $(\bar{c} s) = j/\psi, \psi(2S)$ and $\chi(c1)$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the ratio $B(B^+ \rightarrow X e^+ \nu) / B(B^0 \rightarrow X e^+ \nu)$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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DOI: 10.1103/PhysRevD.74.091105
Published in: Phys.Rev.D 74 (2006), 091105

Measurement of CP-violating asymmetries in the $B^0 \rightarrow K^+ K^- K^0$ Dalitz plot
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the $B^+ \rightarrow \eta \ell^+ \nu$ and $B^+ \rightarrow \eta' \ell^+ \nu$ branching fractions using $\epsilon_{4S} \rightarrow B \bar{B}$ events tagged by a fully reconstructed B meson
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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$\chi(c)$ -prime production at BABAR
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Search for the rare decay $B^+ \rightarrow a(0) + \pi^0$
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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A Search for the decays $B^+ \rightarrow e^+ \nu_e$ and $B^+ \rightarrow \mu^+ \nu_\mu$ using hadronic-tag reconstruction
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for the $B^0 \rightarrow e^+ e^- \gamma$ and $B^0 \rightarrow \mu^+ \mu^- \gamma$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0607058 [hep-ex]

Search for $B^+ \rightarrow X(3872) K^+$, $X_{3872} \rightarrow J/\psi \gamma$
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Published in: Phys.Rev.D 74 (2006), 071101

Study of the Exclusive Initial-State Radiation Production of the D anti-D System

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Published in: Phys.Rev.D 76 (2007), 111105

Measurements of the Decays $B^0 \rightarrow \bar{D}^0 p \bar{p}$, $B^0 \rightarrow \bar{D}^0 \pi^+ p \bar{p}$, $B^0 \rightarrow D^+ p \bar{p} \pi^+$, and $B^0 \rightarrow D^{*-} p \bar{p} \pi^+$

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DOI: 10.1103/PhysRevD.74.051101

Published in: Phys.Rev.D 74 (2006), 051101

Updated measurement of the CKM angle α using $B^0 \rightarrow \rho^+ \rho^-$ decays

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Measurement of CP-Violating Asymmetries in $B^0 \rightarrow (\rho \pi)^0$ Using a Time-Dependent Dalitz Plot Analysis

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0607076 [hep-ex]

Search for the rare decay $B \rightarrow \pi \ell^+ \ell^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0607048 [hep-ex]

Search for inclusive charmless $B \rightarrow K^+ X$ and $B \rightarrow K^0 X$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0607053 [hep-ex]

Evidence for the $B^0 \rightarrow \rho^0 \rho^0$ decay and implications for the CKM angle α

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Measurement of the CP-violating asymmetries in $B^0 \rightarrow K^0_S \pi^0$ and of the branching fraction of $B^0 \rightarrow K^0 \pi^0$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

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Measurement of CP asymmetries and branching fractions in $B \rightarrow \pi \pi$ and $B \rightarrow K \pi$ decays

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
e-Print: hep-ex/0607106 [hep-ex]

Measurement of the Branching Fractions of the Decays $B^0 \rightarrow \Lambda_c^+ \bar{c} \bar{p}$ and $B^- \rightarrow \Lambda_c^+ c \bar{p} \pi^-$

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e-Print: hep-ex/0607055 [hep-ex]

Measurement of the q^2 dependence of the Hadronic Form Factor in $D^0 \rightarrow K^- e^+ \nu_e$ decays

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Observation of the decays $B^- \rightarrow D_s^* K^- \pi^-$ and $B^- \rightarrow D_s^* K^- \pi^-$

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0607062 [hep-ex]

Search for the reactions $e^+ e^- \rightarrow \mu^+ \tau^-$ and $e^+ e^- \rightarrow e^+ \tau^-$

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Measurement of the Mass and Width and Study of the Spin of the $\Xi(1690)^0$ Resonance from $\Lambda_c^+ \rightarrow \Lambda \bar{K}^0 K^+$ Decay at Babar

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0607043 [hep-ex]

Study of the Lepton Flavor Violating Decay $\tau^- \rightarrow \mu^- \eta$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0607045 [hep-ex]

Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow \rho K^*$ and $B \rightarrow f_0(980) K^*$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved measurement of CP asymmetries in $B^0 \rightarrow (S \bar{c}) K^{(*)0}$ decays

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0607107 [hep-ex]

Measurement of the relative branching fractions for $B^- \rightarrow D/D^*/D^{\{D^*\}} \pi^- \ell^+$ with a large sample of tagged B mesons

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0607067 [hep-ex]

Measurement of time-dependent CP asymmetries in $B^0 \rightarrow K^0_S K^0_S K^0_S$ decay

BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.

e-Print: hep-ex/0607108 [hep-ex]

Experimental apparatus to study crystal channeling in an external SPS beamline
Sergey V. Afanasev (Dubna, JINR), Alexander D. Kovalenko (Dubna, JINR), Alexander M. Taratin (Dubna, JINR), A.G. Afonin (Serpukhov, IHEP), Vladimir T. Baranov (Serpukhov, IHEP) et al.
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Measurement of the Pseudoscalar Decay Constant $f(D(s))$ Using Charm-Tagged Events in e^+e^- Collisions at $s^{*1/2} = 10.58\text{-GeV}$
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Observation of a New $D(s)$ Meson Decaying to DK at a Mass of $2.86\text{-GeV}/c^{*2}$
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Search for $D^0\text{-}\bar{D}^0$ mixing in the decays $D^0 \rightarrow K^+ \pi^- \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the $B \rightarrow \pi \ell \nu$ Branching Fraction and Determination of $|V_{ub}|$ with Tagged B Mesons
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Time-dependent CP-violation parameters in $B^0 \rightarrow \eta' K^0$ decay
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurement of the branching fractions for the decays $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$
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Measurement of the branching fraction and photon energy moments of $B \rightarrow X_s \gamma$ and A_{CP} , ($B \rightarrow X_{s+d} \gamma$)
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Measurements of CP-violating asymmetries in B decays to $\omega K_0(s)$
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow \rho K^*$ and $B \rightarrow f_0(980) K^*$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

A Measurement of CP-violation parameters in B_0 anti- B_0 mixing using partially reconstructed $D^{*+} \nu(l)$ events at BaBar
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
e-Print: hep-ex/0607091 [hep-ex]

Branching fraction measurements of charged B decays to $K^{*+} K^+ K^-$, $K^{*+} \pi^+ K^-$, $K^{*+} K^+ \pi^-$ and $K^{*+} \pi^+ \pi^-$ final states
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0607113 [hep-ex]
DOI: 10.1103/PhysRevD.74.051104
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Measurement of the CKM angle γ in $B^{\mp} \rightarrow D^{(*)} K^{\mp}$ decays with a Dalitz analysis of $D^0 \rightarrow K^0_S \pi^+ \pi^-$
BaBar Collaboration • Bernard Aubert (Barcelona U., ECM) et al.
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A Precision measurement of the $D(s_1)(2536)$ meson mass and decay width
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Study of inclusive B- and anti- B_0 decays to flavor-tagged D, D(s) and $\Lambda^+(c)$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Beijing, Inst. High Energy Phys.) et al.
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Dalitz plot analysis of the decay $B^0 \rightarrow K^0 K^0 K^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for $B^+ \rightarrow \phi \pi^+$ and $B^0 \rightarrow \phi \pi^0$ Decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of $B \rightarrow D^{(*)} D^{(*)} (s)$ Decays and Measurement of D_{s1}^- and D_{s1}^0 (2460) - Branching Fractions

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Study of the $D^*(s_1)(2317)$ and $D(s_1)(2460)$ Mesons in Inclusive c anti- c Production Near $\sqrt{s} = 10.6$ -GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fractions and CP-violating charge asymmetries for B meson decays to $D^{(*)}$ anti- $D^{(*)}$, and implications for the CKM angle γ

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the decay $B^0 \rightarrow 3 \pi^+ 2 \pi^- \pi^0 \nu_{\tau}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for T, CP and CPT violation in B^0 anti- B^0 mMixing with inclusive dilepton events

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of CP-violating asymmetries and branching fractions in B decays to ωK and $\omega \pi$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of branching fractions and resonance contributions for $B^0 \rightarrow \bar{D}^0 K^{*+} \pi^-$ and search for $B^0 \rightarrow D^0 K^{*+} \pi^-$ decays

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Measurements of the $B \rightarrow X_s \gamma$ branching fraction and photon spectrum from a sum of exclusive final states

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A study of $b \rightarrow c$ and $b \rightarrow u$ interference in the decay $B^- \rightarrow (K^+ \pi^-) D K^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved measurements of branching fractions for $B^0 \rightarrow \pi^+ \pi^-$, $B^0 \rightarrow K^+ \pi^-$, and search for $B^0 \rightarrow K^+ K^-$ at BABAR

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Measurements of neutral B^0 decay branching fractions to $K^0_S \pi^+ \pi^-$ final states and the charge asymmetry of $B^0 \rightarrow K^{*+} \pi^-$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $B^0 \rightarrow \pi^{\pm} \ell^{\pm} \nu$ and $B^{\pm} \rightarrow \pi^0 \ell^{\pm} \nu$ branching fractions and determination of $|V_{ub}|$ in $\epsilon_{4S} \rightarrow B \bar{B}$ events tagged by a fully reconstructed B meson

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of time-dependent CP-violating asymmetries in $B^0 \rightarrow K^0_{\{S\}} K^0_{\{S\}}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A precision measurement of the Λ_c^{+} baryon mass

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Measurement of CP-violating parameters in fully reconstructed $B \rightarrow D^{(*)} \pi^{\pm}$ and $B \rightarrow D^{\pm} \rho^{\mp}$ decays

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of $J/\psi \pi^+ \pi^-$ states produced in $B^0 \rightarrow J/\psi \pi^+ \pi^- K^0$ and $B^- \rightarrow J/\psi \pi^+ \pi^- K^-$

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DOI: 10.1103/PhysRevD.72.072003 , 10.1103/PhysRevD.74.099903

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Measurement of time-dependent CP-violating asymmetries in $B^0 \rightarrow K^{+} K^{-} K^0_L$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0507016 [hep-ex]

Measurement of the $B^{\pm} \rightarrow \rho^{\pm} \pi^0$ branching fraction and direct CP asymmetry

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506069 [hep-ex]

Determination of $|V_{ub}|$ from measurements of the electron and neutrino momenta in inclusive semileptonic B decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0506036 [hep-ex]
DOI: 10.1103/PhysRevLett.95.111801 , 10.1103/PhysRevLett.97.019903 (erratum)
Published in: Phys.Rev.Lett. 95 (2005), 111801, Phys.Rev.Lett. 97 (2006), 019903 (erratum)

Measurement of double charmonium production in e^+e^- annihilations at $\sqrt{s}=10.6$ GeV
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506062 [hep-ex]
DOI: 10.1103/PhysRevD.72.031101
Published in: Phys.Rev.D 72 (2005), 031101

Branching fraction for $B^0 \rightarrow \pi^+ \ell^+ \nu$ and determination of $|V_{ub}|$ in
 $\epsilon_{4S} \rightarrow B^0 \bar{B}^0$ events tagged by $\bar{B}^0 \rightarrow D^{(*)} + \ell^- \bar{\nu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506064 [hep-ex]

Measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506082 [hep-ex]
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Published in: Phys.Rev.Lett. 95 (2005), 151804

Search for $B^+ \rightarrow D_S^+ (*) \phi$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506073 [hep-ex]

Search for lepton-flavor and lepton-number violation in the decay $\tau^- \rightarrow \ell \bar{\nu}_\ell \mu \bar{\nu}_\mu$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506066 [hep-ex]
DOI: 10.1103/PhysRevLett.95.191801
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Branching fraction for $B^+ \rightarrow \pi^+ \ell^+ \nu$, measured in $\epsilon_{4S} \rightarrow B \bar{B}$
events tagged by $B^+ \rightarrow D^+ \ell^+ \nu$ anti- ν (X) decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0506065 [hep-ex]

Search for the decay $\tau^- \rightarrow 4\pi^- 3\pi^+ (\pi^0) \nu_\tau$
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 72 (2005), 012003

Search for the rare decay $\overline{B}^0 \rightarrow D^{*0} \gamma$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of Γ in $B^{\mp} \rightarrow D^{(*)} K^{\mp}$ decays with a Dalitz analysis of $D \rightarrow K^0_S \pi^- \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of time-dependent CP-violating asymmetries and constraints on $\sin(2\beta + \gamma)$ with partial reconstruction of $B \rightarrow D^{*\mp} \pi^{\pm}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching fraction and CP-violating asymmetry for $B^0 \rightarrow \omega K^0_{S^*}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for $B \rightarrow J/\psi D$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for strange-pentaquark production in e^+e^- annihilation at $\sqrt{s}=10.58$ GeV
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Measurement of CP asymmetries in $B^0 \rightarrow \phi K^0$ and $B^0 \rightarrow K^+ K^- K^0_S$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.71.091102
Published in: Phys.Rev.D 71 (2005), 091102

Branching fraction and CP asymmetries of $B^0 \rightarrow K^0_S K^0_S K^0_S$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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The $e^+e^- \rightarrow \pi^+ \pi^- \pi^+ \pi^-$, $K^+ K^- \pi^+ \pi^-$, and $K^+ K^- K^+ K^-$ cross sections at center-of-mass energies 0.5-GeV - 4.5-GeV measured with initial-state radiation
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^0 \rightarrow D^{*-} D_s^{*+}$ and $D_s^+ \rightarrow \phi \pi^+$ branching fractions
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of branching fractions and time-dependent CP-violating asymmetries in $B \rightarrow \eta' K$ decays
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Published in: Phys.Rev.D 72 (2005), 091103

Search for factorization-suppressed $B \rightarrow \chi_c K^{(*)}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Improved measurements of CP-violating asymmetry amplitudes in $B^0 \rightarrow \pi^+ \pi^-$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A search for CP violation and a measurement of the relative branching fraction in $D^{*+} \rightarrow K^- K^+ \pi^+$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.71.091101

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Measurement of branching fraction and Dalitz distribution for $B^0 \rightarrow D^{*0} K^0 \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 95 (2005), 171802

Measurement of branching fractions and charge asymmetries for exclusive B decays to charmonium

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 94 (2005), 141801

Limit on the $B^0 \rightarrow \rho^0 \rho^0$ branching fraction and implications for the CKM angle α

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.94.131801

Published in: Phys.Rev.Lett. 94 (2005), 131801

Search for a charged partner of the $X(3872)$ in the B meson decay $B \rightarrow X^- K^+$, $X^+ \rightarrow J/\psi \pi^- \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.71.031501

Published in: Phys.Rev.D 71 (2005), 031501

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.94.181802
Published in: Phys.Rev.Lett. 94 (2005), 181802

Measurement of the ratio $B(B^- \rightarrow D^{*0} K^-)/B(B^- \rightarrow D^{*0} \pi^-)$ and of the CP asymmetry of $B^- \rightarrow D^{*0}_{CP+} K^-$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A search for the decay $B^+ \rightarrow K^+ \nu \bar{\nu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0411061 [hep-ex]
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Published in: Phys.Rev.Lett. 94 (2005), 101801

Ambiguity-free measurement of $\cos(2\beta)$: Time-integrated and time-dependent angular analyses of $B \rightarrow J/\psi K \pi$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of $B \rightarrow D^{*+}$ form-factors in the semileptonic decay $\bar{B}^0 \rightarrow D^{*+} \ell^- \bar{\nu}_\ell$ anti-neutrino
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Study of B^0 (anti- B^0) $\rightarrow \pi^0 \pi^0$, $B^{\pm} \rightarrow \pi^{\pm} \pi^0$ and $B^{\pm} \rightarrow K^{\pm} \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408081 [hep-ex]

Measurement of the \bar{B}^0 lifetime and of the $B^0 \bar{B}^0$ oscillation frequency using partially reconstructed $\bar{B}^0 \rightarrow D^{*+} \ell^- \bar{\nu}_\ell (\ell^+)$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for $B^+ \rightarrow \tau^+ \nu_{\tau}$ recoiling against $B^- \rightarrow D^0 \ell^-$
 $\bar{\nu}_{\ell}$ ($\ell = e, \mu$)

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for strange pentaquark production in $e^+ e^-$ annihilations at $\sqrt{s} = 10.58$ -GeV and in $\Upsilon(4S)$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of time-dependent CP-violating asymmetries in B^0 meson decays to η' K^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Measurement of CP violating asymmetries in $B^0 \rightarrow f_0(980) K^0_{S^*}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the $B^0 \rightarrow K^0_{S^*} K^0_{S^*} K^0_{S^*}$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408065 [hep-ex]

Measurement of CP-violating parameters in fully reconstructed $B \rightarrow D^{(*)} \pi$ and $B \rightarrow D \rho$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the branching fractions for the decays $B^0 \rightarrow D^{*-} p \bar{p} \pi^+$, $B^0 \rightarrow D^+ p \bar{p} \pi^+$, $B^0 \rightarrow \bar{D}^0 p \bar{p}$ and $B^0 \rightarrow \bar{D}^0 p \bar{p}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408035 [hep-ex]

Measurement of the $B^0 \rightarrow \phi K^0$ decay amplitudes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevLett.93.231804

Published in: Phys.Rev.Lett. 93 (2004), 231804

A Search for the decay $B^+ \rightarrow K^+ \nu \bar{\nu}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Observation of B^0 meson decays to $a_1(1260) \pi^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408021 [hep-ex]

Constraints on $r(B^0)$ and γ in $B^0 \rightarrow D^{(*)} K^0$ decays by a Dalitz analysis
of $D^0 \rightarrow K_{S^*} \pi^+ \pi^-$
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Improved measurement of CP asymmetries in $B^0 \rightarrow (c \bar{c}) K^{(*)0}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the branching fractions and CP asymmetries of $B^0 \rightarrow D_{CP} K^0$ decays
with the BABAR detector
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Study of $B^0 \rightarrow D_{S^*}^+ \bar{D}^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurements of the branching fraction and CP-violating asymmetries of $B^0 \rightarrow K^0_S \pi^0$
decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Search for decays of B^0 mesons into pairs of charged leptons: $B^0 \rightarrow e^+ e^-$, $B^0 \rightarrow \mu^+ \mu^-$,
 $B^0 \rightarrow e^+ \mu^-$, $B^0 \rightarrow e^+ \mu^+ \mu^-$
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Searches for charmless decays $B^0 \rightarrow \eta \omega$, $B^0 \rightarrow \eta K^0$, $B^+ \rightarrow \eta \rho^+$, and $B^+ \rightarrow \eta' \pi^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408058 [hep-ex]

Measurement of the branching fraction of $e^+ e^- \rightarrow B^0 \bar{B}^0$ at the Υ_{4S} resonance
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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$D^+ \rightarrow K^- K^+ \pi^+$ meson decays: A Search for CP violation and a measurement of the branching ratio
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408136 [hep-ex]

A Search for the Θ^{*++} pentaquark in $B^+ \rightarrow p \bar{K}^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408037 [hep-ex]

Search for the decay $B^0 \rightarrow K^{*+} \rho^-$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of neutral B decay branching fractions to $K^0_S \pi^+ \pi^-$ final states
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Search for the decay $B^0 \rightarrow J/\psi \gamma$
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Search for the $D(sJ)^*(2632)^+$ at BABAR
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Measurements of CP asymmetries in the decay $B \rightarrow \phi K$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic endpoint and determination of $|V_{ub}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0408075 [hep-ex]

Search for $B \rightarrow \chi(\phi) K^{(*)}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408033 [hep-ex]

Measurement of the $\overline{B}^0 \rightarrow D^{*+} \ell \bar{\nu}_\ell$ decay rate and $|V_{cb}|$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.71.051502

Published in: Phys.Rev.D 71 (2005), 051502

Search for the radiative penguin decays $B^{+} \rightarrow \rho^{+} \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.94.011801

Published in: Phys.Rev.Lett. 94 (2005), 011801

Measurements of Λ_c branching fractions of Cabibbo-suppressed decay modes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408024 [hep-ex]

Partial reconstruction of $B^0 \rightarrow D^{*}(S) + D^{*-}$ decays and measurement of the $D_{s1} \rightarrow \phi \pi^{+}$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408040 [hep-ex]

Search for an $X(3872)$ charged partner in the decay mode $X^{-} \rightarrow J/\psi \pi^{-} \pi^0$ in the B meson decays $B^0 \rightarrow X^{-} K^{+}$ and $B^{-} \rightarrow X^{-} K^0_S$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408083 [hep-ex]

A Study of $\bar{b} \rightarrow D^{(*)} \bar{K}^{(*)}$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408052 [hep-ex]

A Search for the rare decay $B^0 \rightarrow D_{s1} \rho^{-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408029 [hep-ex]

Search for the decay $B^0 \rightarrow \rho^0 \rho^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for $D^0 - \bar{D}^0$ mixing using semileptonic decay modes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the branching fractions for inclusive B^0 and \overline{B}^0 decays to flavor-tagged D^0 , D^0_s and Λ_c^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0408080 [hep-ex]

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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G. Cavoto (Princeton U. and Rome U. and INFN, Rome)

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of α at the B-factory

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BaBar forward endcap RPCs
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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J/ψ production via initial state radiation in $e^+e^- \rightarrow \mu^+ \mu^- \gamma$ at an e^+e^- center-of-mass energy near 10.6-GeV
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Measurement of the total width, the electronic width and the mass of the Upsilon(10580) resonance

BaBar Collaboration and PEP-II Machine Group • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of the branching fractions of charged B decays to $K^{\pm} \pi^{\pm} \pi^{\pm}$ final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Search for the B meson decay to eta-prime phi

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $B^0 \rightarrow K^{*0} \gamma$ and $B^+ \rightarrow K^{*0} \gamma$ branching fractions

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Search for $B^+ \rightarrow \mu^+ \nu_{\mu}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of time dependent CP asymmetries with partial reconstruction of $B^0 \rightarrow D^{*-+} \pi^{\pm}$

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Rates, polarizations, and asymmetries in charmless vector-vector B meson decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0307026 [hep-ex]

DOI: 10.1103/PhysRevLett.91.171802

Published in: Phys.Rev.Lett. 91 (2003), 171802

Limits on $D^0 \bar{D}^0$ mixing and CP violation from the ratio of lifetimes for decay to $K^+ \pi^+$, $K^+ K^+$ and $\pi^+ \pi^+$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0306003 [hep-ex]

DOI: 10.1103/PhysRevLett.91.121801

Published in: Phys.Rev.Lett. 91 (2003), 121801

Search for the radiative decays $B \rightarrow \rho \gamma$ and $B^0 \rightarrow \omega \gamma$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306038 [hep-ex]
DOI: 10.1103/PhysRevLett.92.111801
Published in: Phys.Rev.Lett. 92 (2004), 111801

Measurements of branching fractions and CP-violating asymmetries in $B^0 \rightarrow \rho^{\pm} h^{\pm}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306030 [hep-ex]
DOI: 10.1103/PhysRevLett.91.201802
Published in: Phys.Rev.Lett. 91 (2003), 201802

Measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0306052 [hep-ex]
DOI: 10.1103/PhysRevLett.91.131801
Published in: Phys.Rev.Lett. 91 (2003), 131801

Measurement of the branching fractions for the exclusive decays of B^0 and B^+ to $\bar{D}^{(*)} D^{(*)} K$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevD.68.092001
Published in: Phys.Rev.D 68 (2003), 092001

Search for $D^0 - \bar{D}^0$ mixing and a measurement of the doubly Cabibbo-suppressed decay rate in $D^0 \rightarrow K \pi$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304007 [hep-ex]
DOI: 10.1103/PhysRevLett.91.171801
Published in: Phys.Rev.Lett. 91 (2003), 171801

Observation of a narrow meson decaying to $D_s^+ \pi^0$ at a mass of 2.32-GeV/c²
BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304021 [hep-ex]
DOI: 10.1103/PhysRevLett.90.242001
Published in: Phys.Rev.Lett. 90 (2003), 242001

A Search for $B^{\pm} \rightarrow \tau^{\pm} \bar{\nu}$ recoiling against a fully reconstructed B
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304030 [hep-ex]

A Search for the decay $B^{\pm} \rightarrow K^{\pm} \nu \bar{\nu}$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304020 [hep-ex]

Rare B decays into states containing a J/ψ meson and a meson with $s \bar{s}$ quark content
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304014 [hep-ex]

DOI: 10.1103/PhysRevLett.91.071801
Published in: Phys.Rev.Lett. 91 (2003), 071801

Measurements of CP-violating asymmetries and branching fractions in B^0 meson decays to $\eta' K^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303046 [hep-ex]
DOI: 10.1103/PhysRevLett.91.161801
Published in: Phys.Rev.Lett. 91 (2003), 161801

Rates, polarizations, and asymmetries in charmless vector-vector B decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303020 [hep-ex]

Observation of B meson decays to $\omega \pi^+$, ωK^+ , and ωK^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303040 [hep-ex]

Study of time-dependent CP asymmetry in neutral B^0 decays to $J/\psi \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303018 [hep-ex]
DOI: 10.1103/PhysRevLett.91.061802
Published in: Phys.Rev.Lett. 91 (2003), 061802

Measurements of the branching fractions and charge asymmetries of charmless three-body charged B^0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0304006 [hep-ex]
DOI: 10.1103/PhysRevLett.91.051801
Published in: Phys.Rev.Lett. 91 (2003), 051801

Observation of the decay $B^0 \rightarrow \pi^+ \pi^- \pi^0$, study of $B^0 \rightarrow K^+ \pi^- \pi^0$, and search for $B^0 \rightarrow \pi^+ \pi^- \pi^0$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0303028 [hep-ex]
DOI: 10.1103/PhysRevLett.91.021801
Published in: Phys.Rev.Lett. 91 (2003), 021801

Measurement of the branching fraction and CP-violating asymmetries in neutral B^0 decays to $D^{*\mp} D^{\mp}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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DOI: 10.1103/PhysRevLett.90.221801
Published in: Phys.Rev.Lett. 90 (2003), 221801

A Search for $B^+ \rightarrow \tau^+ \nu_\tau$ neutrino recoiling against $B^- \rightarrow D^0 \ell^- \bar{\nu}_\ell$ lepton anti-neutrino X^0

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Limits on the lifetime difference of neutral B mesons and on CP, T, and CPT violation in B0 anti-B0 mixing

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Evidence for $B^+ \rightarrow J/\psi p \overline{\Lambda}$ and search for $B^0 \rightarrow J/\psi p \bar{p}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303036 [hep-ex]

DOI: 10.1103/PhysRevLett.90.231801

Published in: Phys.Rev.Lett. 90 (2003), 231801

Branching fractions in $B \rightarrow \phi h$ and search for direct CP violation in $B^{\pm} \rightarrow \phi K^{\pm}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303029 [hep-ex]

Observation of B meson decays to $\eta \pi$ and ηK

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303039 [hep-ex]

Measurements of the branching fractions of charged B decays to $K^+ \pi^- \pi^+$ final states

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0303022 [hep-ex]

Measurement of $B^0 \rightarrow D_s^{(*)+} D^{*-}$ branching fractions and $B^0 \rightarrow D_s^{(*)+} D^{*-}$ polarization with a partial reconstruction technique

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.67.092003

Published in: Phys.Rev.D 67 (2003), 092003

Measurement of the CKM matrix element $|V_{ub}|$ with $B \rightarrow \rho e \nu$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0301001 [hep-ex]

DOI: 10.1103/PhysRevLett.90.181801

Published in: Phys.Rev.Lett. 90 (2003), 181801, eConf C0304052 (2003), WG117

Measurements of branching fractions and CP-violating asymmetries in $B^0 \rightarrow \pi^+ \pi^-$, $K^+ \pi^-$, $K^+ K^-$ decays

$K^+ \pi^-$, $K^+ K^-$ decays

G. Cavoto (Princeton U. and Rome U.)

Published in: Italian Phys.Soc.Proc. 83 (2003), 221-226

Simultaneous measurement of the B^0 meson lifetime and mixing frequency with $B^0 \rightarrow D^{*-} \ell^+ \nu_\ell$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.67.072002

Published in: Phys.Rev.D 67 (2003), 072002

Measurement of the B^0 meson lifetime with partial reconstruction of $B^0 \rightarrow D^{*-} \pi^+$ and $B^0 \rightarrow D^{*-} \rho^+$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0212012 [hep-ex]
DOI: 10.1103/PhysRevD.67.091101
Published in: Phys.Rev.D 67 (2003), 091101

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A measurement of the $B^0 \to J/\psi \pi^+ \pi^-$ branching fraction
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of the branching fraction for inclusive semileptonic B meson decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0208018 [hep-ex]
DOI: 10.1103/PhysRevD.67.031101
Published in: Phys.Rev.D 67 (2003), 031101

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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Measurement of branching ratios and CP asymmetries in $B^{\pm} \to D^0_{CP} K^{\pm}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0207087 [hep-ex]

Measurement of the $B^0 \to D^{*-} a_1(1)$ branching fraction with partially reconstructed D^{*+}
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Search for the decay $B^0 \to \pi^0 \pi^0$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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A Study of time dependent CP asymmetry in $B^0 \to J/\psi \pi^0$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0207058 [hep-ex]

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0207084 [hep-ex]

Measurement of the branching fraction for $B^{\pm} \rightarrow \chi(c_0) K^{\pm}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of time dependent CP asymmetries and the CP odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the CP-violating asymmetry amplitude $\sin 2\beta$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0207042 [hep-ex]

DOI: 10.1103/PhysRevLett.89.201802

Published in: Phys.Rev.Lett. 89 (2002), 201802

Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic endpoint

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0207081 [hep-ex]

$b \rightarrow s \gamma$ using a sum of exclusive modes

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 67 (2003), 032002

A Search for $B^+ \rightarrow K^+ \nu \bar{\nu}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0207065 [hep-ex]

Measurements of charmless two-body charged B decays with neutral pions and kaons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurements of the branching fractions of charmless three-body charged B decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the B^0 lifetime with partial reconstruction of $\bar{B}^0 \rightarrow D^{*+} \rho^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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A Measurement of the $B^0 \rightarrow J/\psi \pi^+ \pi^-$ branching fraction

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of D_{s^+} and $D_{s^{*+}}$ production in B meson decays and from continuum e^+e^- annihilation at $\sqrt{s}=10.6$ GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.D 65 (2002), 091104

Measurements of Branching Ratios and CP violating asymmetries in $B \rightarrow \pi^+ \pi^-$ and $B \rightarrow K^{\pm} \pi^{\mp}$ decays with the BaBar experiment

G. Cavoto (U. Rome La Sapienza (main))

Search for the rare decays $B \rightarrow K \ell^+ \ell^-$ and $B \rightarrow K^* \ell^+ \ell^-$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevLett.88.241801

Published in: Phys.Rev.Lett. 88 (2002), 241801

A study of time dependent CP-violating asymmetries and flavor oscillations in neutral B decays at the $\Upsilon(4S)$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Measurement of the $B^0 - \overline{B}^0$ oscillation frequency with inclusive dilepton events

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Published in: Phys.Rev.Lett. 88 (2002), 221803

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.65.031101

Published in: Phys.Rev.D 65 (2002), 031101

Measurement of $B^0 - \overline{B}^0$ flavor oscillations in hadronic B^0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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Study of $B^{\pm} \rightarrow J/\psi \pi^{\pm}$ and $B^{\pm} \rightarrow J/\psi K^{\pm}$ decays: Measurement of the ratio of branching fractions and search for direct CP-violating charge asymmetries

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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DOI: 10.1103/PhysRevD.65.091101

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107056 [hep-ex]

Search for the decay $B^0 \rightarrow \gamma \gamma$

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Published in: Phys.Rev.Lett. 87 (2001), 241803

Measurement of the branching fraction for the decay $B^0 \rightarrow D^{*+} D^{*-} S$

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Search for $B^0 \rightarrow a_1(980) \pi^- S$

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

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BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107058 [hep-ex]

Measurement of the B^0 anti- B^0 oscillation frequency in hadronic B^0 decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107036 [hep-ex]

Observation of CP violation in the B^0 meson system

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107013 [hep-ex]

DOI: 10.1103/PhysRevLett.87.091801

Published in: Phys.Rev.Lett. 87 (2001), 091801

Measurement of branching fractions for exclusive B^0 decays to charmonium final states

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107025 [hep-ex]

DOI: 10.1103/PhysRevD.65.032001

Published in: Phys.Rev.D 65 (2002), 032001

Study of CP violating asymmetries in $B^0 \rightarrow \pi^+ \pi^- \pi^0$, $B^0 \rightarrow \pi^+ \pi^- \pi^0$ decays

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107074 [hep-ex]

Measurement of $D^+(s)$ and $D^{*+}(s)$ production in B meson decays and from continuum $e^+ e^-$ annihilations at $s^{1/2} = 10.6$ -GeV

BaBar Collaboration • B. Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0107060 [hep-ex]

Measurement of J/ψ production in continuum $e^+ e^-$ annihilations near $\sqrt{s} = 10.6$ GeV

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0106044 [hep-ex]

DOI: 10.1103/PhysRevLett.87.162002

Published in: Phys.Rev.Lett. 87 (2001), 162002

Measurement of the decays $B^0 \rightarrow \pi^+ K^-$ and $B^0 \rightarrow \pi^+ K^{*-}$

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0105001 [hep-ex]

DOI: 10.1103/PhysRevLett.87.151801

Published in: Phys.Rev.Lett. 87 (2001), 151801

Measurement of branching fractions and search for CP-violating charge asymmetries in charmless two-body B^0 decays into pions and kaons

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.

e-Print: hep-ex/0105061 [hep-ex]

DOI: 10.1103/PhysRevLett.87.151802

Published in: Phys.Rev.Lett. 87 (2001), 151802

The BaBar detector

BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0105044 [hep-ex]
DOI: 10.1016/S0168-9002(01)02012-5
Published in: Nucl.Instrum.Meth.A 479 (2002), 1-116

Measurement of CP violating asymmetries in B^0 decays to CP eigenstates
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0102030 [hep-ex]
DOI: 10.1103/PhysRevLett.86.2515
Published in: Phys.Rev.Lett. 86 (2001), 2515-2522

Measurements of charmless hadronic B decays branching fraction at BaBar
BaBar Collaboration • Gianluca Cavoto (Rome U. and INFN, Rome) for the collaboration.
e-Print: hep-ex/0105018 [hep-ex]
Published in:

The First year of the BaBar experiment at PEP-II
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0012042 [hep-ex]

A Measurement of the charged and neutral B meson life-times using fully reconstructed decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008060 [hep-ex]

A Measurement of the branching fraction of the exclusive decay $B^0 \rightarrow K^0 \gamma$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008055 [hep-ex]

Measurement of the time dependence of B^0 - anti- B^0 oscillations using inclusive dilepton events
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008054 [hep-ex]

A Measurement of the B^0 - anti- B^0 oscillation frequency and determination of flavor tagging efficiency using semileptonic and hadronic B^0 decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008052 [hep-ex]

A Study of time dependent CP violating asymmetries in $B^0 \rightarrow J/\psi K^0_{S}$ and $B^0 \rightarrow \psi_{2S} K^0_{S}$ decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008048 [hep-ex]

Measurement of the branching fractions for $B^0 \rightarrow D^{*-} \pi^+$ and $B^0 \rightarrow D^{*-} \rho^+$
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008051 [hep-ex]

Measurements of charmless three-body and quasi two-body B decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008058 [hep-ex]

Measurement of inclusive production of charmonium states in B meson decays
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008049 [hep-ex]

Measurement of the B₀ meson properties using partially reconstructed B₀ to D^{*-} π⁺ and B₀ to D^{*-} lepton⁺ lepton neutrino decays with the BaBar detector
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008053 [hep-ex]

Study of inclusive D_s (*)[±] production in B decays and measurement of B⁰ to D^{*-} D_s (*)⁺ decays using a partial reconstruction technique
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008056 [hep-ex]

Exclusive B decays to charmonium final states
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008050 [hep-ex]

Search for B⁺ to K⁺ ℓℓ⁺ and B⁰ to K⁰ ℓℓ⁺ lepton-
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008059 [hep-ex]

Measurement of branching fractions for two-body charmless B decays to charged pions and kaons at BaBar
BaBar Collaboration • Bernard Aubert (Annecy, LAPP) et al.
e-Print: hep-ex/0008057 [hep-ex]

The BABAR physics book: Physics at an asymmetric B factory
BaBar Collaboration • D. Boutigny (Annecy, LAPP) et al.
DOI: 10.2172/979931

Violazione di CP a BaBar: analisi di isospin per l'estrazione di $\sin(2\alpha)$
G. Cavoto (U. Rome La Sapienza (main))

Simona Bartocci

Curriculum vitae et studiorum

Esperienza Professionale

Date e tipologia contrattuale

*Principale attività e
Responsabilità*

Dal 04/10/2024 ad oggi - – Contratto di lavoro a Tempo indeterminato con inquadramento nel III livello professionale profilo Tecnologo 2[^] fascia stipendiale presso l'ufficio Project management e PMO PNRR.

Responsabile dell'Ufficio Project Management e PMO PNRR (dal 01/12/2025)

Presso l'Ufficio Project management e project management office PNRR:

- Coordinamento operativo della gestione, monitoraggio e controllo di 157 progetti PNRR (budget complessivo INFN ~310 M€), con ruolo di coordinatore o partner.
- Progettazione e implementazione di un modello strutturato di Portfolio Management, sviluppato nell'ambito PNRR e progressivamente esteso ai progetti strategici e di maggiore rilevanza per l'Ente.
- Sviluppo di strumenti integrati di monitoraggio (dashboard direzionali in Power BI) basati su armonizzazione dei dati provenienti dai sistemi amministrativi e contabili, oggi utilizzati anche per iniziative non PNRR.
- Standardizzazione di workflow, modulistica e checklist di autocontrollo per garantire compliance normativa e ammissibilità della spesa, con adozione di procedure replicabili su ulteriori programmi finanziati.
- Supervisione dell'avanzamento tecnico, procedurale e finanziario e predisposizione di report periodici per la Cabina di Regia PNRR e per il management dell'Ente.
- Gestione dei flussi documentali e dei processi di rendicontazione (personale, avanzamento fisico e finanziario), con impostazione di processi centralizzati riutilizzati anche per altri progetti complessi.
- Supporto al team per le attività di controllo DNSH (Do No Significant Harm) e gestione dei conflitti di interesse.
- Supporto alla gestione delle criticità progettuali e al processo decisionale, attraverso analisi trasversali di portafoglio.
- Coordinamento e ruolo di referente nei tavoli negoziali per la definizione degli Accordi ASI-INFN.
- Supporto alla predisposizione di proposte progettuali nazionali di elevato valore economico, applicando il modello organizzativo e di controllo sviluppato per il PNRR.

Datore di lavoro

Date e tipologia contrattuale

*Principale attività e
Responsabilità*

Istituto Nazionale di Fisica Nucleare (INFN)

Dal 01/10/2021-03/10/2024 – Contratto di lavoro a Tempo determinato con inquadramento nel III livello professionale profilo Tecnologo 1[^] fascia stipendiale.

Presso l'ufficio Project management e Project Management office (PMO) per i progetti PNRR:

- Supporto operativo, monitoraggio e controllo dell'avanzamento dei progetti PNRR.
- Coordinamento e ruolo di referente nei tavoli negoziali per gli Accordi ASI-INFN.

Presso la sezione di Roma Tor Vergata:

- Deputy Project Manager e Product & Quality Manager per la gestione e il controllo della configurazione hardware, software e documentale dei payload High Energy Particle Detector (HEPD-02) e Electric Field Detector (EFD-02) a bordo del satellite CSES-02.

- **Responsabile WPIA-AC Product & Quality assurance nell'ambito del progetto Limadou-2 fase B2/C/D/E1, Accordo Attuativo n. 2019-22-HH.0 ASI-INFN.**

- **Incarico di Project manager, responsabile WPIA-AA2 Management INFN - Accordo ASI-INFN n. 2021-1-HH.0 della Convenzione Quadro n. 2016-4-Q.0 Limadou Operazioni FO.**

<i>Datore di lavoro</i>	Istituto Nazionale di Fisica Nucleare (INFN)
<i>Date e tipologia contrattuale</i>	Dal 04/06/2020 al 03/06/2021 - Contratto di Lavoro Autonomo (Co.Co.Co)
<i>Principale attività e Responsabilità</i>	Deputy Project Manager e Product & Quality Manager per il progetto Limadou-2 (Accordo Attuativo n.2019-22-HH.0 dell'Accordo Quadro ASI INFN n. 2016-4-Q.0 Programma LIMADOU-2 fase B2/C/D/E1, WP 1A-AC Product & Quality Assurance) Project Manager (Accordo Attuativo n. 2021-1-HH.0 della Convenzione Quadro n. 2016-4-Q.0 Limadou Operazioni-FO, WP 1A-AA2 Management INFN).
<i>Datore di lavoro</i>	Istituto Nazionale di Fisica Nucleare (INFN) sezione di Roma Tor Vergata
<i>Date e tipologia contrattuale</i>	Dal 01/06/2019 al 31/03/2020 - Contratto di Lavoro Autonomo (Co.Co.Co)
<i>Principale attività e Responsabilità</i>	Responsabile delle attività del WP4000 dell'Accordo Attuativo n.2017-19-H.0 dell'Accordo Quadro tra ASI e INFN LIMADOU fase E/Operazioni relative alla conduzione delle operazioni di acquisizione del Ground Segment CSES in Cina, archiviazione dati, processamento e disseminazione per il rivelatore HEPD e per i dati dei payload cinesi conformemente alla Data Policy
<i>Datore di lavoro</i>	Istituto Nazionale di Fisica Nucleare (INFN) sezione di Roma Tor Vergata
<i>Data e tipologia contrattuale</i>	01/06/2018 al 31/05/2019 - Assegno di ricerca
<i>Principale attività e Responsabilità</i>	Trasferimento, controllo di qualità e diffusione dei dati della missione CSES Limadou.
<i>Datore di lavoro</i>	Università degli studi di Roma Tor Vergata
<i>Data e tipologia contrattuale</i>	01/01/2016 al 31/05/2018 - Assegno di ricerca
<i>Principale attività e Responsabilità</i>	Attività integrazione, calibrazione, documentazione e presa dati degli strumenti HEPD e EFD nell'ambito del progetto LIMADOU per lo sviluppo del satellite CSES e pianificazione scientifica della missione. (Addendum n.1 Accordo Attuativo n. 2014-12-R.0. alla convezione Quadro n. C/011/11/0 Progetto Limadou fase B/C/D1).
<i>Datore di lavoro</i>	Università Telematica Internazionale Uninettuno
<i>Data e tipologie contrattuale</i>	Dal 15/07/2011 al 31/07/2014 e dal 01/12/2014 al 30/11/2015 – Assegni di ricerca
<i>Tipo di attività o settore</i>	Attività svolte durante il periodo di riferimento si hanno: - Misure e analisi microclimatiche e di qualità dell'aria in ambienti confinati - Progettazione e implementazione di sistemi di acquisizione dati basati su microcontrollore - Studi di fattibilità e progettazione di interventi di razionalizzazione dei consumi energetici - Diagnosi e certificazioni energetiche - Monitoraggio sistemi fotovoltaici
<i>Datore di lavoro</i>	Università degli studi di Roma Tor Vergata, in collaborazione con il ministero dello sviluppo economico. Settore disciplinare ING-INF/03 e ING-IND/11
<i>Data</i>	Da Novembre 2008 a Dicembre 2011
<i>Tipo di attività o settore</i>	Dottorato di ricerca in “Ingegneria delle Fonti di Energia” presso il Dipartimento di ingegneria dell'impresa dell'Università degli Studi di Roma “Tor Vergata”.

Istruzione e formazione

<i>Data</i>	Novembre 2011
<i>Istituto di istruzione</i>	Università degli Studi di Roma "Tor Vergata"
<i>Titolo della qualifica rilasciata</i>	Dottorato di ricerca in Ingegneria delle Fonti di Energia su "Measurements on Components and Systems for Solar Energy Applications"
<i>Data</i>	Ottobre 2008
<i>Istituto di istruzione</i>	Università degli Studi di Roma "Tor Vergata"
<i>Titolo della qualifica rilasciata</i>	Laurea Specialistica in Ingegneria per l'Ambiente ed il Territorio indirizzo Energia. Tesi di Laurea dal titolo "Metodo di prova per collettori solari termici e progetto di una stazione sperimentale"
<i>Voto</i>	110/110 e lode
<i>Data</i>	dal 04/05/2012 al 06/05/2012
<i>Istituto di formazione</i>	Istituto Nazionale di Fisica Nucleare (INFN)
<i>Diploma ottenuto</i>	Corso Nazionale per la gestione di progetto all'INFN Project Management - I^a edizione
<i>Data</i>	Dicembre 2014 a Gennaio 2015
<i>Istituto di formazione</i>	Alma Laboris S.r.l.
<i>Diploma ottenuto</i>	Diploma di Master in Energy Management/UNI-CEI 11339:2009: dall'Energy Manager all'Esperto nella Gestione dell'Energia. Il master è riconosciuto dal SECEM (Sistema Europeo di Certificazione in Energy Management)
<i>Data</i>	Dicembre 2012 a Gennaio 2013
<i>Istituto di formazione</i>	Centro Gestione Sicurezza – Università Tor Vergata
<i>Titolo della qualifica rilasciata</i>	Responsabile del servizio di prevenzione e protezione – modulo C (24 ore)
<i>Certificato ottenuto</i>	Attestato di partecipazione a seguito di esame finale

Attività di docenza

<i>Data</i>	Da Settembre 2011 a Ottobre 2023
<i>Tipo di attività o settore</i>	TUTOR dei corsi di Fisica Tecnica, Impianti Energetici Per L'edilizia e Impatto Ambientale Dei Sistemi Energetici presso l'Università Telematica UNINETTUNO.
<i>Data</i>	Ottobre 2010 – Ottobre 2015
<i>Tipo di attività o settore</i>	Assistente alla didattica per i corsi di Impianti Tecnici, Fonti Rinnovabili, presso l'Università degli Studi di Roma Tor Vergata

Capacità e competenze personali

<i>Madrelingua</i>	Italiano
<i>Altra lingua</i>	Inglese
<i>Autovalutazione Livello europeo (*)</i>	<ul style="list-style-type: none">• Capacità di lettura: B2• Capacità di scrittura: B2• Capacità di espressione orale: B2
<i>Competenze informatiche</i>	
<i>Sistemi Operativi</i>	Windows, LINUX
<i>Linguaggi di programmazione</i>	C, C++, Matlab

Applicativi software

Microsoft Office, ESA Costing Software (ECOS), Engineering Requirements Management DOORS, AutoCAD, Adobe Photoshop, Project Management Office

Le informazioni contenute nel presente Curriculum vitae et studiorum sono rese sotto la personale responsabilità del sottoscritto ai sensi degli artt. 46 e 47 del D.P.R. 28 dicembre 2000 n. 445, consapevole della responsabilità penale prevista dall'art. 76 del medesimo D.P.R., per le ipotesi di falsità in atti e dichiarazioni mendaci.

Luogo e data

Roma, 25/02/2026

MASSIMO SORBI si laurea in Fisica il 4/2/1994 presso l'Università degli Studi di Milano con tesi sperimentale sulla Superconduttività Applicata (Studio della propagazione del "Quench"). Votazione finale 110/110 con Lode.

Dal 1/5/1994 al 31/1/1996 usufruisce di borse di studio nell'ambito della collaborazione TERA per la progettazione di un ciclotrone superconduttivo da impiegarsi in **adroterapia**.

Dal 1/2/1996 al 31/1/2001 è assunto come Tecnologo presso l'Istituto Nazionale di Fisica Nucleare, Sez. di Milano, per la progettazione e costruzione delle bobine superconduttrici toroidali del rivelatore **ATLAS del CERN**. Le bobine verranno costruite in Italia e il magnete ATLAS è attualmente il magnete superconduttore più grande mai realizzato.

Dal 15/7/2002 al 31/12/2003 ha un contratto dall'Università degli Studi di Firenze per la progettazione di schermi **magnetici superconduttivi** da impiegarsi in missioni **spaziali**.

Dal 2/1/2004 al 30/11/2019 è Ricercatore Universitario presso Dipartimento di Fisica dell'Università degli Studi di Milano.

Dal 1/12/2019 è **Professore Associato** presso Dipartimento di Fisica dell'Università degli Studi di Milano. Ambito principale di attività: progettazione e costruzione di **magneti superconduttori per acceleratori di particelle**.

Dal 2016 è **Coordinatore del gruppo Magneti Superconduttori del LASA** (Laboratorio Acceleratori e Superconduttività Applicata - INFN Sez. di Milano & Università degli Studi di Milano) Principali progetti con responsabilità attualmente in corso:

- Progettazione e costruzione dei modelli di dipoli a alto campo per il Future Circular Collider.
- Principal Investigator per UNIMI e responsabile attività WP4 (polo di Milano) per la costruzione della facility per magneti superconduttivi del programma PNRR-IRIS

Svolge attività didattica nella Laurea Triennale e Magistrale in Fisica di UNIMI.

E' coordinatore del percorso in Fisica degli Acceleratori della Laurea Magistrale in Fisica e tiene il corso di **Elementi di Superconduttività e fisica dei magneti ad alto campo**.

Ha assunto il ruolo di relatore di numerose tesi di laurea nell'ambito della superconduttività ed è tutor di Studenti di Dottorato.