

Alberto ALOISIO - Short CV

Education

- (1981) High School Diploma (Maturità Classica, marks 60 out of 60)
(1988) Master's degree (MSc) in Physics, Laurea cum laude, University of Naples 'Federico II', Italy

Temporary Research Fellowships

- (1985) Summer Student at CERN (Geneva, Switzerland)
(1989-1991) Two-year fellowship granted by Istituto Nazionale di Fisica Nucleare

Faculty Positions

- (1991-1998) Assistant Professor of Physics, University of Naples 'Federico II', Italy
(1999-2003) Associate Professor of Physics, University of Sannio, Italy
(2004-2011) Associate Professor of Physics, University of Naples 'Federico II', Italy
(2011-present) Full Professor of Physics at University of Naples 'Federico II', Italy
(SC: 02/A1, SSD: FIS/01)

Other affiliations

- (1991-present) Associate with *Incarico di Ricerca* to Istituto Nazionale di Fisica Nucleare (INFN);
(2017-present) Associate with *Incarico di Collaborazione* to Istituto superconduttori, materiali innovativi e dispositivi (SPIN), Consiglio Nazionale delle Ricerche (CNR).

Teaching Activities

- (1991-1995) Physics II, MSc in Physics, Univ. of Naples 'Federico II';
(1995-1998) Laboratory of Physics I, MSc in Physics, Univ. of Naples 'Federico II';
(1999-2003) Experimental Physics, MSc in Geology, Univ. of Sannio;
(1999-2003) Laboratory of Computer Architecture, BSc in Computer Science, Univ. of Naples 'Federico II';
(2004-2011) Laboratory of Digital Systems, MSc in Physics, Univ. of Naples 'Federico II';
(2006-2007) Field Programmable Gate Arrays Architecture, I-level Master in Microelectronics Circuit Design, Univ. of Padua;
(2004-present) Computer Architecture, BSc in Computer Science, Univ. of Naples 'Federico II';
(2012-present) Digital Electronics, MSc in Physics, Univ. of Naples 'Federico II';

Roles and Responsibilities in University, Research Institutions, Agencies

Italian Universities and Research Institutes:

- (2005-present) Member of the Board of the *PhD School of Physics*, Univ. of Naples 'Federico II';
(2006-2011) Member of the *INFN 5th National Scientific Committee for Accelerators and Applied Physics*;
(2016-2018) Member of the Department Board, Dept. of Physics, Univ. of Naples 'Federico II' (elective charge);
(2016-present) Member of the Management Board of the *Interdepartmental Center for Advances in Robotic Surgery*, Univ. of Naples 'Federico II';
(2017-2019) Member of the Council of the *School on Engineering and Sciences*, Univ. of Naples 'Federico II' (elective charge);
(2017-present) Member of the Academic Senate, Univ. of Naples 'Federico II' (elective charge);

Foreign Institutions:

- (2010) contributor to the NuPECC Long Range Plan 2010 – Perspectives of Nuclear Physics in Europe
(2011-2012) Member of the Scientific Standing Committee (SSC) of the *Km3Net Neutrino Telescope* EU Project
(2017) Reviewer for the National Science Centre, Poland
(2019-2021) Member of Expert Panels of the Research Foundation, Flanders – FWO (Fonds voor Wetenschappelijk Onderzoek – Vlaanderen), Bruxelles (B):
- *W&T7 Panel (Energy, Electrical Engineering, Electronics and Mechanics)*
- *Interdisciplinary Panel*

Quality-of-Research Evaluation Agencies:

- (2004) Member of the *Albo degli Esperti* of the Italian Committee for Evaluation of Research (CIVR);
(2012-2013) Reviewer of the VQR 2004-2010 (Evaluation of the Quality of the Research) for the Italian Research and University Evaluation Agency (ANVUR);
(2015-present) Member and Reviewer of REPRIZE: Register of Expert Peer Reviewers for Italian Scientific Evaluation, Italian Ministry of Education, University and Research;
(2016-2017) Reviewer of the VQR 2011-2014 (Evaluation of the Quality of the Research) for the Italian Research and University Evaluation Agency (ANVUR);

- (2016-2018) Eligible Reviewer for the Italian National Scientific Qualification (ASN) (SC: 02/A1, SSD: FIS/01), Italian Ministry of Education, University and Research.
- (2018-present) Eligible Reviewer for the Italian National Scientific Qualification (ASN) (SC: 02/A1, SSD: FIS/01), Italian Ministry of Education, University and Research.

Governmental Organizations:

- (2018-2020) Member of the *Working Group on Artificial Intelligence*, created by the Italian Ministry of Education, University and Research (MIUR)

Peer-reviewing

for Italian Agencies:

- (1999-2003) Reviewer for the Research Programs of Relevant National Interest (PRIN), MIUR
- (2004-present) Member of the Reviewer Board for the evaluation of Programs of Relevant National Interest (PRIN)
- (2010) Reviewer for the Program for Young Researchers 'Rita Levi Montalcini', MIUR
- (2010, 2013) Reviewer for the Program 'Future in Research - FIRB', MIUR
- (2017-2018) Reviewer of 'Progetti FAR (Fondi Agevolazione alla Ricerca) 2007/08', MIUR

for Journals:

- (2001-present) *IEEE Transactions on Nuclear Science*
- (2013-present) *Journal of Zhejiang University SCIENCE C*
- (2014-present) *IEEE Transactions on Circuits and Systems*
- (2016-present) *Review of Scientific Instruments*
- (2016-present) *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*
- (2016-present) *International Journal of Parallel Programming*
- (2017-present) *Karbala Journal of Modern Physics (Elsevier)*
- (2018-present) *Journal of Renewable and Sustainable Energy (AIP)*
- (2018-present) *Ain Shams Engineering Journal (Elsevier)*

for Publishing Houses:

- (2012-present) *CRC Press Scientific Publishing House* (www.crcpress.com)

Organizations of International Conferences

Member of Scientific Committee:

- (2005) *IEEE Real-Time Conference* (Stockholm, Sweden)

Member of the Program Committee and Reviewer for the IEEE Nuclear Science Symposium:

- (2003) Portland, USA (*)
- (2005) Puerto Rico, USA
- (2006) San Diego, USA
- (2007) Honolulu, USA (*)
- (2008) Dresden, Germany (*)
- (2009) Orlando, USA
- (2010) Knoxville, USA
- (2011) Valencia, Spain (*)
- (2012) Anaheim, USA
- (2013) Seoul, Korea
- (2014) Seattle, USA
- (2016) Strasbourg, France
- (2017) Atlanta, USA
- (2018) Sydney, Australia

(*) also Session Chairman

Reviewer for:

- (2017) *2nd International Conference on New Energy and Future Energy System (NEFES 2017)*, Kunming, Yunnan, China
- (2017) *26th IEEE International Symposium on Industrial Electronics (ISIE17)* Edinburgh, Scotland, UK
- (2018) *3rd International Conference on New Energy and Future Energy System (NEFES 2018)*, Shanghai, China

Technology Transfer and Patents

- (2009) Member of Italian Delegation, International Visitor Leadership Program on Technology Transfer, organized by the Department of State of US, Bureau of Educational and Cultural Affairs
- (2014) Reviewer of the 'Future in Research' program, funded by Regione Puglia, Italy
- (2016) Co-inventor of the patent "Digitally Controlled Oscillator (DCO) Architecture", WO 2016/071813 A2

Coordination of Scientific Projects

- (1999-2001) Principal Investigator (PI) of the project *Parallel Optical Link Architecture (POLAR)*, approved and funded by INFN to explore the feasibility of optical busses for high-performance digital backbones in physics experiments.
- (2002-2003) PI of the project *COLOred Optical Read-out (COLOR)* approved and funded by INFN for a proof-of-concept of a Dense Wavelength Division Multiplexing (DWDM) network for detector read-out.
- (2005-2007) PI of the project *Dwdm REAL-time Module (DREAM)*, approved and funded by INFN to design a Dense Wavelength Division Multiplexing (DWDM) network with real-time features for detector read-out. The architecture has been deployed in an underwater neutrino telescope.
- (2010-2012) PI of the project *TWO2TEN* approved and funded by INFN to design and characterize electrical and optical layers for serial links up to 10Gb/s with fixed latency and low phase-noise.
- (2007-2008) Local Scientific Coordinator (Unit of the University of Naples) of the PRIN 2006 project *Design of a data acquisition system for a tracking calorimeter with imaging read out.*
- (2012-2018) PI of the *EOS* project (*EOS: Organic Electronics for innovative research instrumentation*), approved and funded by the Italian Ministry for Education, University and Research, Call 'Progetti Premiali 2012';
- (2014-present) Project Coordinator of the *LEOSIR* project (*Laboratory of Organic Electronics for Innovative Research Equipment*), funded by Region Campania within the POR FESR 2007/2013;

Bibliometric parameters (source: SCOPUS)

ORCID ID: orcid.org/0000-0002-3883-6693
H-index : 74
Total number of papers (document type -> articles): 1037
Total number of citations: ~35000

Brief overview of research activities

My research activity aims at developing and characterizing radiation detectors for High Energy Physics experiments and designing the related read-out electronics, data acquisition and trigger systems. I co-authored more than 1000 papers on international journals, with h-index of 74 (source: SCOPUS). The details of my research activities are presented hereafter, framed in the context of the most important experiments where the work has been carried out.

The L3 experiment

The L3 experiment was designed to study the e+e- collisions up to a cm energy of 200 GeV on the Large Electron Positron Collider (LEP) at CERN. The most important achievements were the mass and total width measurements of the Z and W, their coupling with leptons and quarks, the study of quarks and leptons in the Z decays. In 1990, I had the responsibility of the trigger system of the forward/backward muon detectors, based on RPC detectors. This architecture represents one of the first examples of FPGA-based logic in a DAQ and trigger system for a High-Energy Physics experiment, supporting real-time data analysis and compression.

The KLOE experiment

In 1993, I joined the KLOE experiment at the INFN National Laboratory, Frascati (Italy). The experimental apparatus has been optimized to study the CP violation in the decays of the phi. The DAFNE accumulator ring has an interaction frequency of 330 MHz, asking for a novel approach to the detector read-out and trigger scheme. I proposed and realized the DAQ backbone for the entire apparatus. Custom processors read out the detectors and they perform the first steps of event building in real-time, keeping the pace with the nearly continuous DAFNE beam interaction rate.

The ARGO-YBJ experiment

ARGO-YBJ was an apparatus for the detection of cosmic radiation based upon RPC, installed at the High Altitude Cosmic Ray Laboratory, nearby YangBaijing (Tibet, PRC) at 4300m a.s.l... The research program covered the cosmic ray study, the gamma astronomy at an energy threshold as low as few hundreds of GeV and the detection of gamma ray bursts from galactic and extragalactic sources. From 2001, I participate to the definitions of the trigger algorithms and I have implemented the trigger logic which have been successfully deployed and tested since the first pilot runs started in 2003.

The ATLAS experiment

ATLAS is one of the experiments presently taking data at the LHC accelerator at CERN. The apparatus has been designed aiming at the detection of the Higgs boson (eventually discovered in 2012) in the widest mass range as well as of supersymmetric and heavy W and Z-like particles. The experimental program also covers the CP violation in the B decay and a detailed study of the top. I was responsible for the design and construction of the optical read-out for the Level-1 trigger of the RPC detectors in the muon spectrometer. I also designed the FPGA logic and embedded microprocessors to accelerate the execution of the event building algorithms.

Optical Networks and novel DAQ architectures.

From 1999 to 2012, I was the Principal Investigator of R&D programs (COLOR, POLAR, DREAM, TWO2TEN) funded by INFN on the application of the Dense Wavelength Division Multiplexing (DWDM) technology and high speed serial links to the DAQ systems of HEP experiments. In the DWDM network, each user modulates a laser source tuned on a specific wavelength (or *color*) belonging to a standard grid. *Colors* are then muxed on a single strand of optical fiber and then demuxed at the far end of the fiber. The research programs produced a novel DWDM network architecture,

considered as a reference in the literature. Such an architecture has been adopted by the NEMO-KM3NET experiment (an underwater neutrino telescope) for the DAQ system of the first prototype, and eventually deployed in 2007 at 2000m below the sea level, 20 km offshore the Catania's harbor.

The Belle II Experiment

In 2013, I joined the Belle II experiment, presently taking data at KEK (Tsukuba, JP). The detector will play a key role in the detection of signal of New Physics beyond the Standard Model, as flavor changing neutral currents, charged Higgs, new sources of CP violation, and search for dark photon.

I am involved in the operations of the electromagnetic calorimeter based on CsI crystals, read-out by silicon photo-diodes and phototubes. This activity is also carried out in the framework of the JENNIFER EU project.

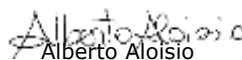
The 'Premial Project EOS'

I have been the Principal Investigator for the EOS project (EOS: Organic Electronics for innovative research instrumentation), jointly presented by INFN and CNR in the framework of 2012 Call of *Progetti Premiali* of the Italian Ministry of University and Research. The project has been approved and funded by the Ministry in 2014. Organic Electronics is opening unbeaten paths to the use of heterogeneous electronic components in the form of thin, lightweight, flexible and low cost systems. The ability to integrate onto organic supports a wide range of new features is at the same time an opportunity and a technological challenge. The topic of Organic Electronics is now universally considered of strategic interest in a variety of applications, from lighting to the development of bio-compatible sensors. In particular, EOS aims at developing advanced digital and analog organic circuits to provide a vast research community with innovative solutions of deep-embedded electronics for lab-grade instruments.

LEOSIR

I am the Project Coordinator of LEOSIR (Laboratory of Organic Electronics for research instrumentation), funded by Regione Campania in the framework of POR FESR 2007/2013. LEOSIR aims at reducing the technology divide between fundamental research in organic electronics and design of reliable sensors and circuits. The lab includes state-of-art instruments for device characterization in the time, frequency and optical domains.

Naples, Mar.1st 2019


Alberto Aloisio

Curriculum vitae di Sandra Parlati

INFORMAZIONI PERSONALI

Parlati Sandra
Nazionalità: italiana
Data e luogo di nascita: 24/01/1966 Torino

ISTRUZIONE

Laurea in fisica presso l'università degli studi di Torino conseguita il 14 marzo 1991 con votazione 110/110.
La tesi, dal titolo "*L'orologio UTC ai Laboratori del Gran Sasso*", ha riguardato i sistemi di sincronizzazione a distanza di scale di tempo e, in particolare, la sincronizzazione dell'orologio atomico dei LNGS alla scala UTC tramite segnali radiofonici e televisivi. La tesi ha riguardato inoltre la sincronizzazione dei sistemi di timing degli esperimenti MACRO e EAS-TOP ai Laboratori del Gran Sasso.

POSIZIONE CORRENTE

Da dicembre 2001: tecnologo presso i Laboratori Nazionali del Gran Sasso dell'INFN con contratto di lavoro a tempo indeterminato.
Da giugno 2005: responsabile del Servizio Calcolo e Reti dei Laboratori Nazionali del Gan Sasso.

PRECEDENTI POSIZIONI

Da settembre 1992 a dicembre 1994: contratto con California Institute of Technology per la gestione dei dati dell'esperimento MACRO e dei computer impiegati per l'acquisizione e l'analisi dei dati sperimentali.

Da febbraio 1995 a maggio 1995: contratto a tempo determinato presso la sezione INFN di Pisa come collaboratore tecnico per la misura delle caratteristiche dei fotomoltiplicatori impiegati nell'esperimento CHOOZ.

Da maggio a luglio 1995: incarico di prestazione professionale presso l'Università degli studi di Pisa, Dipartimento di Fisica, per la misura delle caratteristiche dei fotomoltiplicatori impiegati nell'esperimento CHOOZ.

Da agosto 1995 a marzo 1996: contratto presso l'Università degli studi di Bologna e di Lecce per la gestione dei dati dell'esperimento MACRO.

Da marzo 1997 a dicembre 2001: tecnologo nel Servizio di Calcolo e Reti presso i LNGS dell'INFN con contratto di lavoro a tempo determinato.

BORSE di STUDIO

Da settembre 1991 a settembre 1992: borsa di studio INFN finanziata da Digital Equipment Corporation presso i LNGS per lo studio delle reti LAN Ethernet e FDDI.

Da maggio 1996 a marzo 1997: borsa di studio del CNR, Istituto di Cosmogeofisica di Torino, per lo sviluppo del software di visualizzazione dei dati dell'esperimento ICARUS.

ATTIVITA' DI DOCENZA e TUTORAGGIO

Anno accademico 2002-2003: docenza nei corsi "Fondamenti di Informatica I" e "Fondamenti di Informatica II" presso la Facoltà di lettere e Filosofia dell'Università degli Studi dell'Aquila, nell'ambito del corso di Laurea "Culture per la comunicazione".

Attività di docenza e tutoraggio negli anni 2007-2014 nell'ambito dei progetti POR Abruzzo "Gran Sasso in Rete", "Società della conoscenza" e "Sapere e Crescita" per 5 borsisti che hanno svolto la propria attività nell'ambito del Servizio Calcolo e Reti dei LNGS.

Febbraio 2010: docenza nel corso "Affidabilità dei servizi informatici aziendali" erogato in modalità e-learning nell'ambito del progetto POR Abruzzo "Gran Sasso in rete".

Febbraio 2016-Febbraio 2017: Attività di tutoraggio per una borsa di studio ai LNGS dal titolo "Supporto alla gestione della rete, con particolare attenzione a servizi e sicurezza"

Da ottobre 2015: Attività di tutoraggio per un AdR tecnologico ai LNGS dal titolo "Sviluppo e utilizzo di nuove tecnologie per l'aggiornamento dell'infrastruttura di calcolo scientifico U-Lite ai Laboratori Nazionali del Gran Sasso."

SUPERVISIONE DI STUDENTI

A.A. 2002-2003: relatore della tesi di laurea "Il web semantico" di Roberta De Paolis presso la Facoltà di Lettere e Filosofia dell'Università degli Studi dell'Aquila nell'ambito del corso di laurea "Culture per la Comunicazione".

ORGANIZZAZIONE DI MEETINGS e SEMINARI

Nel 1997: organizzazione del corso di formazione "Linguaggio di programmazione C" presso i LNGS per l'utenza scientifica.

Nel 1999: organizzazione del corso di formazione "Linguaggio di programmazione C++ e programmazione Object Oriented" presso i LNGS.

Nel 2000: organizzazione del corso di formazione "Linux Red Hat" presso i LNGS.

Nel 2002: organizzazione di un mini-workshop su Geant4 rivolto ai ricercatori dei LNGS.

Nel 2008: organizzazione del workshop della Commissione Calcolo e Reti dell'INFN, tenutosi presso i LNGS a giugno 2008.

Nel febbraio 2014: partecipazione al comitato organizzatore del workshop invernale della CCR presso i LNGS.

Convener della sessione dedicata al calcolo scientifico degli esperimenti afferenti a CSNII e relatore di un intervento sul calcolo scientifico ai LNGS.

Nel 2014, 2015, 2016: partecipazione al comitato di programma dei workshop CCR e convener delle sessioni relative alle attività CCR.

Nel 2017: organizzatore locale e membro del comitato di programma del workshop della CCR ai Laboratori Nazionali del Gran Sasso.

Dal 1997 al 2011: relatore di seminari ai LNGS

"AFS distributed filesystem"

"Condor batch system"

"ROOT analysis framework"

"NQS e Mosix: Sistemi batch, calcolo distribuito e load balancing"

"U-LITE: a proposal for scientific computing at LNGS"

RESPONSABILITA' ISTITUZIONALI

Da giugno 2005: responsabile del Servizio Calcolo e Reti dei LNGS.

Responsabilità della progettazione e della gestione dell'intera infrastruttura di rete dei laboratori e delle risorse di calcolo per gli esperimenti e per gli utenti. Responsabilità della gestione dei fondi assegnati al Servizio dal Direttore e dalla Commissione Calcolo e Reti dell'INFN.

A novembre 2001: nomina a rappresentante dei LNGS e del gruppo collegato dell'Aquila dell'INFN in seno alla Commissione Nazionale Calcolo e Reti dell'INFN per una durata di 3 anni.

A giugno 2004, giugno 2010, aprile 2013 e ottobre 2016: rinnovo della nomina a rappresentante dei LNGS e gruppo collegato dell'Aquila nella CCR dell'INFN.

Ruolo di APA (Access Port Administrator) per i LNGS e il gruppo collegato INFN dell'Aquila presso il Consortium GARR.

Registration Authority dei LNGS per l'autorizzazione alla richiesta di certificati X.509 della CA INFN e responsabile delle richieste di certificati X.509 Terena per i LNGS.

RUP per i fondi del Servizio Calcolo e Reti dei LNGS e per i fondi attribuiti ai LNGS dalla Commissione Calcolo e Reti dell'INFN. Dal 2017 RUP per tutti gli acquisti di materiale informatico dei LNGS.

Nel 2013 RUP per l'acquisto degli apparati di rete (cablata e wireless), dei server e del router di confine del Gran Sasso Science Institute (GSSI).

INCARICHI DI FIDUCIA

Da settembre 2013: membro del gruppo di referaggio sulle richieste finanziarie dei gruppi di lavoro della CCR.

Da luglio 2013 a luglio 2015: membro della commissione biennale per l'attribuzione degli assegni di ricerca scientifici e tecnologici dei LNGS.

A giugno 2007: commissione di esame per l'assegnazione di 5 borse di studio per giovani diplomati ai LNGS, in qualità di Presidente della Commissione.

A marzo 2014 e novembre 2015: commissione per l'attribuzione di una borsa di studio dei LNGS, in qualità di Presidente della Commissione.

A marzo 2014: commissione per l'attribuzione di un contratto di lavoro a tempo determinato, con profilo di tecnologo, ai LNGS in qualità di Presidente della Commissione.

A marzo 2015: membro della commissione per l'attribuzione di un contratto di lavoro a tempo determinato, con profilo di tecnologo, al CNAF.

A maggio 2016: membro della commissione per l'attribuzione di un contratto di lavoro a tempo determinato, con profilo di Collaboratore Tecnico E.R. di VI livello, al CNAF.

ATTIVITA' SCIENTIFICA e TECNOLOGICA

Dal 1990 al 1995 – Attivita' nell'ambito dell'esperimento MACRO

La mia attivita' ha riguardato la gestione dei dati sperimentali e dei sistemi di acquisizione e analisi.

Ho realizzato procedure automatiche in ambiente VAX/VMS per la distribuzione, la riduzione e l'archiviazione su supporti magnetici di grandi moli di dati sperimentali.

Ho collaborato inoltre alle analisi sulla composizione dei raggi cosmici attraverso lo studio dei muoni multipli.

1995 – Collaborazione CHOOZ

Ho partecipato al programma di test di fotomoltiplicatori da usare nell'esperimento CHOOZ.

Mi sono occupata principalmente dell'acquisizione dei dati e della loro successiva elaborazione in ambiente VAX/VMS.

1996 – Partecipazione all'esperimento ICARUS

Ho partecipato allo sviluppo di software per la visualizzazione dei dati sperimentali approfondendo la conoscenza del linguaggio C e di librerie grafiche in ambiente SUN Solaris.

Dal 1997 - Attivita' nell'ambito del Servizio di Calcolo e Reti dei LNGS.

Inizialmente la mia attivita' ha riguardato il supporto all'utenza scientifica dei LNGS in materia di calcolo. Ho curato il test e l'installazione di tools per la simulazione e l'analisi dati in ambiente unix

(Librerie NAG, Mathematica, Geant, Data Explorer, MCNP, ROOT,...), l'installazione della cella locale AFS, del CONDOR pool ai LNGS e collaborando alla sperimentazione del WAN CONDOR pool nazionale.

Ho partecipato al gruppo di lavoro della CCR dell'INFN su AFS e dal 1998 al gruppo di lavoro su CONDOR.

Dal 2002 al 2005 - membro del gruppo di sviluppo del software GEANT4

Ho partecipato allo sviluppo e all'esecuzione delle procedure di confronto tra dati simulati e dati sperimentali ai fini della validazione continua del software. Ho partecipato allo sviluppo di geant4 nel contesto della fisica elettromagnetica di bassa energia favorendo l'adozione di geant4 come framework di simulazione da parte degli esperimenti dei LNGS.

Dal 2007 al 2009 – partecipazione all'esperimento AUGER

Mi sono occupata dell'integrazione del software di simulazione del trigger nel framework generale di simulazione dell'esperimento e della gestione della farm di calcolo italiana dell'esperimento ospitata presso i LNGS. Ho inoltre

partecipato al setup del sistema di rivelazione del profilo verticale dell'atmosfera necessario alla ricostruzione dei dati di esperimento.

Da giugno 2005 - responsabile del Servizio Calcolo e Reti dei LNGS

Gran parte della mia attivita' e' dedicata alla progettazione, l'implementazione e la gestione delle infrastrutture di rete e calcolo e dei servizi informatici dei LNGS. Curo i rapporti tra il Servizio di Calcolo e gli esperimenti per gli aspetti riguardanti il computing e rapporti con gli altri Servizi del laboratorio.

A partire dal 2010 ho seguito la progettazione e lo sviluppo di U-Lite, un sistema integrato di calcolo, storage e backup per gli esperimenti e i gruppi di lavoro dei LNGS.

Nel 2013 ho curato la progettazione dell'infrastruttura di rete e di calcolo del nascente Gran Sasso Science Institute e ho coordinato le attività di supporto al GSSI per quanto riguarda i servizi informatici (collegamento al GARR, richiesta dominio TCP/IP, hosting del sito web, hosting della posta elettronica...).

Dal 2014 partecipo allo sviluppo di un nuovo sistema di timing per gli esperimenti dei LNGS.

Dal 2016 faccio parte del progetto Harmony della CCR sulla sicurezza informatica nell'INFN.

PUBBLICAZIONI

Co-autore di circa 100 pubblicazioni complessive, su riviste con referaggio, conference proceedings e note interne INFN.

Segue un elenco delle pubblicazioni piu' significative:

- **Measurement of the decoherence function with the MACRO detector at Gran Sasso**
MACRO Collaboration (S.P. Ahlen *et al.*). May 1992. 30 pp.
Published in Phys.Rev. D46 (1992) 4836-4845
- **The Measurement of the decorrelation function in underground muon pairs as a probe of primary cosmic ray interactions** – Grillo Aurelio F. *et al.* Astropart.Phys. 2 (1994) 335-346
LNGS-94-93
- **The photomultiplier test facility for thr reactor neutrino oscillation experiment CHOOZ and the measurements of 250 8-in EMI 935KA B35 photomultipliers** – NIM A 372 (1996)
- **The MACRO detector at Gran Sasso**
MACRO Collaboration (M. Ambrosio *et al.*). 2002. 45 pp.
Published in Nucl.Instrum.Meth. A486 (2002) 663-707
- **Comparison of Geant4 electromagnetic physics models against the NIST reference data**
Published in IEEE Trans.Nucl.Sci. 52 (2005) 910-918
- **Geant4 and its validation**
GEANT4 Collaboration (K. Amako *et al.*). 2006. 6 pp.
Published in Nucl.Phys.Proc.Suppl. 150 (2006) 44-49
- **U-LITE, 6 years of scientific computing at LNGS** INFN-17-06/LNGS 28th March 2017
- **Resource management on a VM based computer cluster for scientific computing”**
arXiv:1212.4658
- **INFN towards Cloud Computing** IEEE Proceedings of the NCCA 3rd Symposium 2014
- **U-LITE Unified LNGS IT Environment: a proposal for scientific computing at LNGS**
LNGS/TC/01/11
- **The LNGS AFS cell** INFN/TC-98/07 INFN
- **Indagine sui servizi offerti dai Servizi di Calcolo dell'INFN** – LNGS/TC01/09
- **A new control system for the LNGS atomic clock** INFN/TC-01/20 INFN

INTERRUZIONI DI CARRIERA

Nel 2004 e nel 2009 ho usufruito di due periodi di congedo per maternità.

PERSONAL INFORMATION

Silvio Pardi

 Via Carlo de Cesare, 34, 80132 Napoli (Italia)

 (+39)081676242  (+39)3923724665

 spardi@na.infn.it

 Skype spardi2

WORK EXPERIENCE

02/02/2010–Present

Technologist

The Italian National Institute for Nuclear Physics (INFN), Naples (Italy)

Technological Research on filed of Networking and Distributed System, Computer Networks, Grid Computing, Cloud Computing, HTC and HPC.

User Community support.

02/02/2009–02/01/2010

Computer officier

The Italian National Institute for Nulcear Physics (INFN), Naples (Italy)

Network Systems Engineer and System administrator for large cluster

10/10/2008–31/12/2009

Network Engineer

GARR - Italian Academic & Research Network, Roma (Italy)

01/10/2008–01/10/2010

Research Fellowship

University of Naples Federico II, Naples (Italy)

Network Protocols for Grid Computing

01/12/2002–01/12/2003

Term Contract in Resarch Project

University of Naples Federico II, Naples (Italy)

Study Beowulf Cluster for astrophysics application

EDUCATION AND TRAINING

01/10/2003–01/10/2006

Phd In Computer Science

University of Naples Federico II, Naples (Italy)

Study Dynamic Algorithm for Gravitational Waves Detection - Within the Virgo Experiment

01/11/1997–29/11/2001

Graduation in Mathematics - Numerical Curriculum

Cum Laude

Unviersity of Naples Federico II, Naples (Italy)

01/05/2002–01/12/2002

Network Expert - High Level Education for Post Graduated Student

University of Naples Federico II, Naples (Italy)

Networking and Computer Networks

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

QUALIFICATION

- 2015 “Maître de conférences ” in Computer Science (Section 27) (MFC- N°15227222639). National Qualification for “Associate Professor” approved by the French National Council of Universities
- 2013 First classified at the National selection as “Grid Site Manager” - GARR - Italy;
- 2010 Qualification as Research Engineer at ENEA Agency for new technologies and Energy -Italy;
- 2009 Winner of the National selection as “NETWORK SERVICES SCIENTIST” GARR - Italy;
- 2009 National qualification as computer science Technologist at INFN – Italy.

NATIONAL AND INTERNATIONAL PROJECTS

- 2019 JENNIFER2 Project: involved in INFN of WP5 “Computing and Common Techniques”. JENNIFER2 (Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research) 2.4MEuro - Horizon 2020, Marie Skłodowska Curie Actions (MSCA), call RISE 2018 proposal number 822070.
- 2017-2018 Leader of Belle II use-case for Helix Nebula Science Cloud Project funded by The European Community for 5.3MEuro - within the Pre-Commercial Procurement support action -EU Framework Programme for Research and Innovation Horizon 2020.
- 2012-2015 Local leader of PRISMA Project for INFN-Napoli “Interoperable Cloud Platform for Smart Government” PON – The Italian National Operational Program of research: Smart-Cities Call 2012 - 27.500.000 Euro For 15 Partners (local budget INFN Napoli: 600.000 Euro).
- 2011-2014 Coordinator for the monitoring and co-author of the ReCaS –Project “Distributed Computing Infrastructure for e-Science” <http://www.pon-recaS.it> – funded by The Italian National Operational Program of research: Infrastructure Call 2011 13.000.000 Euro.
- 2010-2011 Principal Investigator of the project “Reliability in Grid System” funded by INDAM (The Italian National Institute of Mathematic) within the Young Researcher Program;
- 2004 – 2008 Co-author and Middleware Coordinator of the SCoPE Project financed by the Italy's Ministry of Research (MIUR) for 10M euro, for the creation of a New Grid infrastructure in metropolitan scale in the city of Naples for e-Science

ACKNOWLEDGMENTS

- 2018 Network Coordinator for the Belle II Experiment (106 Institutions involved, 25 Countries, 716 Members)
- 2012 EGI-Champion - Ambassadors for the European Grid Infrastructure among user communities http://www.egi.eu/community/egi_champions/

- 2012 World Record of Computation for the Empirical Verification of the Goldbach Conjecture
 - Appeared on the <https://home.cern/about/updates/2012/09/lhc-grid-tackles-270-year-old-maths-problem> first page of CERN
 - My Interview on ISGTW - International "Science Grid This Week" for the World Record of computation in the Goldbach's Conjecture.
 - [Ref paper] T. Oliveira e Silva, S. Herzog and S. Pardi - "Empirical verification of the even Goldbach conjecture up to 10^{18} " Mathematics of Computation" 2014
- 2012 Best Poster at the EGI-Technical Forum Conference - Prague 17/21 Sept. 2012
- 2008 The SCoPE Project has been selected as one of the best Italian projects 2000-2006 . "Progetti Esemplari del PON Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione 2000-2006"
 - My Interview on Radio3 https://dicorinto.it/temi/diritti_digitali/la-rete-di-cassandra-radio-3-scienza/
 - My Interview on Ateneapoli <http://www.ateneapoli.it/news/attualit/giovani-bravi-e-precari>
- 2007-2008 Technical Coordinator of the "Interoperability Technical Board" promoted by the Italian Ministry of Research to integrate the computing infrastructure in South Italy
- 2004-2006 Scholarship for attending the Conferences: Computing in High Energy and Nuclear Physics - CHEP06 (Mumbai-India) and CHEP04 Interlaken Switzerland)

COMMISSIONS OF TRUST

- Since 2009 Sole Project Manager for several procurement procedures for Hardware – INFN- Italy
- Since 2009 Member of the Technical and Scientific team of the SCoPE datacentre – Univ Napoli - Italy
- 2013 Member of the board for bidding process: Computing Infrastructure (300K€) -INFN-Italy
- 2012 Member of the panel for the selection of 1 post-graduate– Univ. of Naples Federico II- Italy
- 2007 – 2009 Technical Coordinator of GRISU' – The distributed computing infrastructure of south Italy
- Since 2008 Reviewer for the following journal: Future Generation Computer Systems – Elsevier, IEEE Transactions on Parallel and Distributed Systems, Journal of High Speed
- Networks – IOS Press

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- Since 2010 Member of the National Group for Scientific Computing (GNCS-INdAM) - Italy
- Since 2013 Member of the European Grid Infrastructure as Champion for dissemination- Netherlands
- Since 2013 Member of the Belle2 experiment based in Tsukuba - Japan.
- 2003 – 2006 Member and European Gravitational Observatory for the Virgo Experiment -Pisa - Italy

TEACHING EXPERIENCES

- Since 2008 Tutor-Supervisor of more than 50 Master thesis and BCs Thesis students
- 2018-2019 – Teacher of of Computer Network (48h) and Computer Science (24h) – School of Medicine - Università della Campania "Luigi Vanvitelli" – Radiology Curriculum
- 2009-2015 – Teacher of Grid Computing (48h) – Polytechnic School - University of Naples Federico II Computer Science Curriculum
- 2012-2013 – Teacher of Computer Network (20h), University of Bari Aldo Moro - Master
- 2007-2008 – Teacher of Computer Science – Faculty of Medicine - University of Rome Tor Vergata (48h) Master in "Management and coordination of Hospital structures"

ORGANISATION OF SCIENTIFIC MEETINGS

- 2018 Member of the Program Committee of "Joint WLCG & HSF Workshop 2018" - 26-29 March 2018 – Napoli - Italy
- 2018 Member of the Program Committee of "The 5th IEEE/ACM International Conference on Big

Data Computing, Applications and Technologies (BDCAT 2018)" - Zurich, December 17-20 2018

- 2017 Member of the Program Committee of - "The 9th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2017)" - 11-14 December 2017 - Hong Kong
- 2017 Member of the Program Committee of "The 4th IEEE/ACM International Conference on Big Data Computing, Applications and Technologies (BDCAT 2017)" - Austin, Texas, USA.
- 2016 Member of the Program Committee of "Big Data Science, Engineering and Applications (BDSEA) 2016, Shanghai on December 6-9, 2016.
- 2015 Chair of the "IEEE Second International Workshop on Cloud Federation Management (CFM 2015) "From the Network to the Applications" - UCC 2015 International Conference December 7-10, 2015 – Limassol, Cyprus <http://www.cloudfederationmanagement.org/>
- 2014 Chair of the workshop Workshop in "Network Virtualization and Software-Defined Networks for Cloud Data Centres" – within the UCC 2014 International Conference 8-11 December 2014 - <https://sites.google.com/site/nvsdn2014/>
- 2013 Member of the Technical Program Committee - 2013 Workshop on Reliability and Security Data Analysis (RSDA 2013) Analysis -June 24-27, 2013, Budapest, Hungary
- 2013 Member of the Programme Committee - The 3rd International Workshop on Intelligent Techniques and Architectures for Autonomic Clouds (ITAAC 2013)

SCIENTIFIC CONFERENCES

- 2018 Oral Presentation "HTTP Caching" - Joint WLCG-HSF Workshop 2018 -Naples 26-29 March
- 2017 Oral Presentation "Belle 2 Network Update" - Super Computing 2017 (SC17) Denver CO - USA
- 2016 Poster "A lightweight federation of the Belle II storages through Dynafed" - CHEP 2016 Conference, San Francisco, October 8-14, 2016
- 2016 Poster "A performance study of WebDav access to storages within the Belle II collaboration" – CHEP Conference, San Francisco, October 8-14, 2016
- 2015 Poster "A prototype Infrastructure for Cloud-based distributed services in High Availability over WAN" International Conference: "Computer In High Energy Physics" CHEP 2015 – OKINAWA - JAPAN
- 2015 Oral Presentation "Belle 2 Network Estimation 2015-2022" 12th Belle II computing workshop – Honolulu – USA -10-13may 2015
- 2014 Oral Presentation "Network Management in Cloud Computing for Public Administration: A Practical Use Case" UCC 2014 London – UK 8-11 December 2014
- 2014 Oral Presentation "Computing at Belle II" ICHEP-2014 – Valencia – Spain, 2-9 July 2014
- 2014 Oral Presentation "Infrastructure Monitoring for Distributed Tier1: The ReCaS Project Use-Case" Workshop EASyCoSe in the conference INCOS 2014 – Salerno – Italy, September 10-12, 2014, Salerno, Italy
- 2014 Oral Presentation "A Study for a Geographically Distributed Tier2 over Layer-Two Network" Workshop EASyCoSe in the conference INCOS 2014 – Salerno – Italy, September 10-12, 2014, Salerno, Italy
- 2014 Poster: "Non commutative simulations on GRID" The EGI Community Forum 2014 Helsinki, Finland 19-23 May 2014.
- 2014 Oral Presentation: "Network Resource Estimation" 10th Belle II Computing Workshop
- 2014 Oral Presentation "Belle II" Workshop della Commissione Calcolo e Reti dell'INFN 27 - 30 May at Laboratori Nazionali del Sud dell'INFN
- 2014 Oral Presentation "Testbed del T-2 distribuito Napoli-Roma" Workshop della Commissione Calcolo e Reti dell'INFN 27 - 30 May 2014 at Laboratori Nazionali del Sud dell'INFN
- 2013 Oral presentation - "Monitoring and Contextualization in Cloud" Commissione Calcolo e Reti dell'INFN Grand Hotel Savoia – Genova - Italy - 27- 31 maggio 2013
- 2013 Oral Presentation - "Computing in SuperB " - Workshop on Tau-Charm at High Luminosity – La Biodola, Isola d'Elba – Italy 26-31 May

- 2013 Oral Presentation “Champion Program” “NGI International Liaison (NIL) Meeting” – EGI Community Forum - Manchester (UK) - 8- 12 April 2013
- 2012 Oral Presentation “GPU works update” 4th SuperB Collaboration Meeting will take place in La Biodola, Isola d'Elba, May 31st to June 5th
- 2012 Oral Presentation “The ReCaS project” 2012 - Workshop INFN CCR - GARR 2012 - 14 - 17 May 2012
- 2012 Oral Presentation GPGPU Evaluation - First experiences in Napoli ” “Plenary session - The 3rd SuperB Collaboration Meeting will be held at INFN-LNF, Frascati from 19th to 23rd of March 2012
- 2012 Poster: “Grid Computing for Empirical verification of the even Goldbach conjecture” Technical Forum 2012 - <http://tf2012.egi.eu/> - Prague 17-21 Sept 2012 – Selected as Best Poster
- 2012 Poster: “Testing GlusterFS in a Grid Site for SuperB collaboration” EGI Technical Forum 2012 - <http://tf2012.egi.eu/> - Prague 17-21 Sept 2012
- 2012 Poster: “Testing and evaluating storage technology to build a distributed Tier1 for SuperB in Italy” “CHEP12 Conference 21-25 May - New York (USA)
- 2011 Poster: “A Centralized, Extensible, Multilayer Monitoring System for Distributed Infrastructures: the Atlas Tier2-Naples experience” CCP2011 June 21-24, 2011 Palinuro (SA) Italy
- 2011 Poster: “Evaluating new cluster setup on 10Gbit/s network to support the SuperB Computing Model “ CCP2011 June 21-24, 2011 Palinuro (SA) Italy
- 2011 Oral Presentation: “Software installation in distributed environment “ XVII SuperB Workshop and Kick Off Meeting- 28 May - 02 June 2011 - La Biodola (Isola d'Elba) Italy
- 2001 Oral Presentation: “ Cluster Setup and Distributed File System” XVII SuperB Workshop and Kick Off Meeting - 28 May - 02 June 2011 -La Biodola (Isola d'Elba) Italy
- 2010 Oral Presentation: “A fault avoidance strategy improving the reliability of the EGI production grid infrastructure” 14th International Conference On Principles Of Distributed Systems OPODIS 2010 – December 14-17, 2010, Tozeur, Tunisia
- 2010 Poster: “On the Optimization of GLite-Based Job Submission” CHEP 2010, International Conference on Computing in High Energy and Nuclear Physics, 18-22 October 2010, Taipei, Taiwan.
- 2010 Poster: “g-Shell: a system for the interactive control of submitted jobs via linux shell” 5th EGEE User Forum will be held in collaboration with EGI and NDGF in Uppsala, Sweden, April 12-15 2010
- 2010 “Integration of Nagios plug-in into a data model to improve the Grid stability from the user point of view” 5th EGEE User Forum will be held in collaboration with EGI and NDGF in Uppsala, Sweden, April 12-15 2010
- 2009 Oral presentation: “The e-infrastructure of ‘Federico II” Workshop Advantages of regional e-Infrastructures in Grid technology uptake by local scientific communities and SMEs - OGF-25/ EGEE User Forum -March 2-6, 2009 Catania, Italy
- 2009 Poster: Optimizing bulk data transfers using network measurements: a practical case” Conference Series CHEP09, International Conference on Computing in High Energy and Nuclear Physics, March 2009, Prague, CZ
- 2008 Oral Presentation: “Network-aware replica optimization in the SCoPE Grid infrastructure” International Conference on Computational Science and Its Applications (ICCSA 2008) Perugia Italy, June 30 - July 3, 2008
- 2008 Oral Presentation “Network Monitoring in Grid” Networking Day - Convegno sui progetti PON avviso 1575/2004- 15 aprile
- 2008 Poster: “A Network Monitoring Framework in the SCoPE Project” third EGEE User Forum Clermont-Ferrand, France on 11-14 February, 2008
- 2007 Poster: “The S.Co.P.E. Project” EGEE 7 – 11 Mag 2007 - OGF20 Meeting & EGEE User Forum (Manchester).
- 2007 Poster: “A Login Shell interface for INFN-GRID” International Conference on Computing in High Energy and Nuclear Physics CHEP, September 2007, Victoria, Canada.

- 2006 Oral Presentation: "The SCoPE Project"-3rd Poster session International Conference on Cybernetics and Information Technologies, Systems and Applications - Orlando, Florida, USA, July 20-23,2006
- 2006 Poster: "A Diskless solution for LCG middleware" CHEP 2006, International Conference on Computing in High Energy and Nuclear Physics, February 13-17, Mumbai, India.
- 2004 Oral Presentation "A GRID Approach for gravitational waves signal analysis with a multi-standard farm prototype" CHEP 2004, International Conference on Computing in High Energy and Nuclear Physics, September 27 – October 1, Interlaken, Switzerland.
- 2004 Poster: "Raw Ethernet based hybrid control system for the automatic control of suspended masses in gravitational waves interferometric detectors" CHEP 2004, International Conference on Computing in High Energy and Nuclear Physics, September 27 – October 1, Interlaken, Switzerland
- 2004 Poster: "Dynamic Matched Filters for Gravitational Waves Detection", CHEP 2004, International Conference on Computing in High Energy and Nuclear Physics, September 27 – October 1, Interlaken, Switzerland.

PUBLICATIONS

- [Yusa, Y.](#) et al (2019) Measurement of time-dependent CP violation in $B^0 \rightarrow K_S^0 \pi^0 \pi^0$ decays Physical Review D 99(1),011102
- [Kim, J.B.](#) et al (2019) Search for CP violation with kinematic asymmetries in the $D^0 \rightarrow k^+K^- \pi^+ \pi^-$ decay Physical Review D 99(1),011104
- [Guan, Y.](#) et al (2019) Observation of Transverse Λ/Λ Hyperon Polarization in e^+e^- Annihilation at Belle, Physical Review Letters 122(4),042001
- [Adachi, I](#) et al (2018) First Evidence for $\cos 2\beta > 0$ and Resolution of the Cabibbo-Kobayashi-Maskawa Quark-Mixing Unitarity Triangle Ambiguity Physical Review Letters 121(26),261801
- [Fulsom B.G.](#) et al (2018) Observation of $I(2S) \rightarrow \gamma \eta b(1S)$ Decay Physical Review Letters 10.1103/PhysRevLett.121.232001
- [Pal B.](#) et al (2018) Measurement of the branching fraction and time-dependent CP asymmetry for $B^0 \rightarrow j/\psi \pi^0$ decays Physical Review D 10.1103/PhysRevD.98.112008
- [Gelb M.](#) et al (2018) Search for the rare decay of $B^+ \rightarrow \pi^+ \nu \gamma$ with improved hadronic tagging Physical Review D 10.1103/PhysRevD.98.112016
- [Adachi I](#) et al (2018) Measurement of $\cos 2\beta$ in $B^0 \rightarrow d(*)h^0$ with $D \rightarrow K_S^0 \pi^+ \pi^-$ decays by a combined time-dependent Dalitz plot analysis of B and \bar{B} at Belle Physical Review D 10.1103/PhysRevD.98.112012
- [Li Y.B.](#) et al (2018) Evidence of a structure in $K^{\bar{0}} \Lambda_c^+$ consistent with a charged $\Xi_c(2930)^+$, and updated measurement of $B^{\bar{0}} \rightarrow K^{\bar{0}} \Lambda_c^+ \Lambda_c^-$ at Belle: Belle Collaboration European Physical Journal C 10.1140/epjc/s10052-018-6425-5
- [Yin J.H.](#) et al (2018) Observation of $e^+e^- \rightarrow \pi^+ \pi^- \pi^0 \chi_{b1,2}(1P)$ and search for $e^+e^- \rightarrow \phi \chi_{b1,2}(1P)$ at $s = 10.96 - 11.05$ GeV Physical Review D 10.1103/PhysRevD.98.091102
- [Jia S.](#) et al (2018) Observation of $e^+e^- \rightarrow \gamma \chi_{c1}$ and search for $e^+e^- \rightarrow \gamma \chi_{c0}, \gamma \chi_{c2}$, and $\gamma \eta_c$ at s near 10.6 GeV at Belle OBSERVATION of $e^+e^- \rightarrow \gamma \chi_{c1} \dots$ S.
- [Sandilya S.](#) et al (2018) Search for the lepton-flavor-violating decay $B^0 \rightarrow k^* 0 \mu^+ e^-$ SEARCH for the LEPTON-FLAVOR-VIOLATING DECAY ... S. SANDILYA et al. Physical Review D 10.1103/PhysRevD.98.071101
- [Guido E.](#) et al (2018) Observation of $\Pi(4S) \rightarrow \eta' \Pi(1S)$ Physical Review Letters 10.1103/PhysRevLett.121.062001
- [Yelton J](#) et al (2018) Observation of an Excited Ω^- Baryon Physical Review Letters 10.1103/PhysRevLett.121.052003
- [Vossen A.,](#) et al (2018) Measurement of the branching fraction of $B \rightarrow d(*)\pi\nu$ at Belle using hadronic tagging in fully reconstructed events Physical Review D 10.1103/PhysRevD.98.012005
- [Jia S.](#) et al (2018) Search for $Y(1S,2S) \rightarrow Z_c + Z_c'$ and $e^+e^- \rightarrow Z_c + Z_c'$ at $s = 10.52, 10.58,$ and 10.867 GeV Physical Review D 10.1103/PhysRevD.97.112004
- [Nakano H.](#) et al (2018) Measurement of time-dependent CP asymmetries in $B^0 \rightarrow K_S^0 \eta \gamma$

decays Physical Review D 10.1103/PhysRevD.97.092003

- Niyama M et al (2018) Production cross sections of hyperons and charmed baryons from $e+e-$ annihilation near $s = 10.52$ GeV Physical Review D 10.1103/PhysRevD.97.072005
- Li Y.B., et al (2018) Observation of $\Xi_c(2930)^0$ and updated measurement of $B^- \rightarrow K^- \Lambda_c^+ \Lambda^- \bar{c}$ at Belle: Belle Collaboration European Physical Journal C 10.1140/epjc/s10052-018-5720-5
- Babu V, et al. (2018). Search for CP violation in the $D^+ \rightarrow \pi^+ \pi^0$ decay at Belle. PHYSICAL REVIEW D, vol. 97, ISSN: 2470-0010, doi: 10.1103/PhysRevD.97.011101
- Hirose S; et al. (2018). Measurement of the tau lepton polarization and $R(D^*)$ in the decay $(B)^{\text{over-bar}} \rightarrow D^* \tau^-(\nu)^{\text{over-bar}}(\tau)$ with one-prong hadronic tau decays at Belle. PHYSICAL REVIEW D, vol. 97, ISSN: 2470-0010, doi: 10.1103/PhysRevD.97.012004
- Yelton J; et al. (2018). Measurement of branching fractions of hadronic decays of the $\Omega(0)(c)$ baryon. PHYSICAL REVIEW D, vol. 97, ISSN: 2470-0010, doi: 10.1103/PhysRevD.97.032001
- Chilikin K; et al. (2017). Observation of an alternative $\chi(c0)(2P)$ candidate in $e^+e^- \rightarrow J/\psi D(D)^{\text{over-bar}}$. PHYSICAL REVIEW D, vol. 95, ISSN: 2470-0010, doi: 10.1103/PhysRevD.95.112003
- Seidl R; et al. (2017). Invariant-mass and fractional-energy dependence of inclusive production of dihadrons in e^+e^- annihilation at $\sqrt{s} = 10.58$ GeV. PHYSICAL REVIEW D, vol. 96, ISSN: 2470-0010, doi: 10.1103/PhysRevD.96.032005
- Julius T; et al. (2017). Measurement of the branching fraction and CP asymmetry in $B^0 \rightarrow \pi^0 \pi^0$ decays, and an improved constraint on $\phi(2)$. PHYSICAL REVIEW D, vol. 96, ISSN: 2470-0010, doi: 10.1103/PhysRevD.96.032007
- Pal B; et al (2017). Search for $\Lambda_b^+(c) \rightarrow \phi p \pi^0$ and branching fraction measurement of $\Lambda_b^+(c) \rightarrow K^- \pi^+ p \pi^0$. PHYSICAL REVIEW D, vol. 96, ISSN: 2470-0010, doi: 10.1103/PhysRevD.96.051102
- Guido E; et al. (2017). Study of eta and dipion transitions in $\gamma(4S)$ decays to lower bottomonia. PHYSICAL REVIEW D, vol. 96, ISSN: 2470-0010, doi: 10.1103/PhysRevD.96.052005
- Dash N; et al. (2017). Search for CP Violation and Measurement of the Branching Fraction in the Decay $D^0 \rightarrow (KSKS^0)K^0$. PHYSICAL REVIEW LETTERS, vol. 119, ISSN: 0031-9007, doi: 10.1103/PhysRevLett.119.171801
- Horiguchi T; et al. (2017). Evidence for Isospin Violation and Measurement of CP Asymmetries in $B \rightarrow K^*(892)\gamma$. PHYSICAL REVIEW LETTERS, vol. 119, ISSN: 0031-9007, doi: 10.1103/PhysRevLett.119.191802
- Jia S; et al. (2017). Search for light tetraquark states in Upsilon(1S) and Upsilon(2S) decays. PHYSICAL REVIEW D, vol. 96, ISSN: 2470-0010, doi: 10.1103/PhysRevD.96.112002
- PARDI S, RUSSO G (2017). A performance study of WebDav access to storages within the Belle II collaboration. In: JOURNAL OF PHYSICS. JOURNAL OF PHYSICS. CONFERENCE SERIES, ISSN: 1742-6588
- PARDI S, RUSSO G (2017). A lightweight federation of the Belle II storages through Dynafed. JOURNAL OF PHYSICS. CONFERENCE SERIES, ISSN: 1742-6588, doi: 10.1088/1742-6596/898/6/062037
- Palmieri F, Ficco M, Pardi S, Castiglione A (2016). A cloud-based architecture for emergency management and first responders localization in smart city environments. COMPUTERS & ELECTRICAL ENGINEERING, vol. 56, p. 810-830, ISSN: 0045-7906, doi: 10.1016/j.compeleceng.2016.02.012
- H. Takanori, Pardi S, G. de Nardo, Guido Russo (2016). Computing at Belle II. In: 37th international conference on high energy physics 2014. NUCLEAR AND PARTICLE PHYSICS PROCEEDINGS, p. 950-956, ISSN: 2405-6014, Valencia (Spagna), 2-9 luglio 2014, doi: 10.1016/j.nuclphysbps.2015.09.148
- S.Pardi et al - "A prototype Infrastructure for Cloud-based distributed services in High Availability over WAN" – in Proceeding of the International Conference: Computing in High Energy Physics (CHEP2015) Conference 21-25 May - Okinawa (JP) - 2015 J. Phys.: Conf. Ser. 664 022032
- T. Oliveira e Silva, S. Herzog and S. Pardi - "Empirical verification of the even Goldbach conjecture up to 10^{18} " Mathematics of Computation" vol. 83, no. 288, pp. 2033-2060, July 2014
- M. Alfano, D. Del Prete, D. Michelino, S. Pardi, R. Vela and G.Russo "Network Management in

Cloud computing for Public Administration: A Practical Use Case" at 2014 IEEE/ACM 7th International Conference on Utility and Cloud Computing - 978-1-4799-7881-6/14 -pag. 768-773

- Cristina Bulfon, Gianpaolo Carlino, Alessandro De Salvo, Alessandra Doria, Carlo Graziosi, Silvio Pardi, Massimo Carboni, Paolo Bolletta, Lorenzo Puccio, Vincenzo Capone, Leonardo Merola, Guido Russo "A study for a geographically distributed Tier2 over layer-two network" at 6th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2014) – IEEE press
- S.Pardi et al "Infrastructure Monitoring for distributed Tier1: The ReCaS project use-case "at 6th International Conference on Intelligent Networking and Collaborative Systems (INCoS-2014) – IEEE press.
- S.Pardi, D. DelPrete, and G. Russo - "A Grid monitoring model over Network-Aware IaaS Cloud Infrastructure" – International Journal of High Performance Computing and Networking archive Volume 7 Issue 3, September 2013 Pages 195-204
- S. Pardi et al, "Testing and evaluating storage technology to build a distributed Tier1 for SuperB in Italy"- Proceeding CHEP12 Conference 21-25 May - New York (USA)
- S. Pardi et al. "Exploiting new CPU architectures in the SuperB software framework" -Proceeding CHEP12 Conference 21-25 May - New York (USA)
- S. Pardi et al. "SuperB Simulation Production System" - Proceeding CHEP12 Conference 21-25 May - New York (USA)
- Abadie J.; Abbott B. P.; Abbott R.; et al. "All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run" (vol 81, 102001, 2010) - PHYSICAL REVIEW D Volume: 85 Issue: 8 Article Number: 089905 DOI: 10.1103/PhysRevD.85.089905 Published: APR 19 2012
- Accadia T.; Acernese F.; Alshourbagy M.; et al. –"Virgo: a laser interferometer to detect gravitational waves"- : JOURNAL OF INSTRUMENTATION Volume: 7 Article Number: P03012 DOI: 10.1088/1748-0221/7/03/P03012 Published: MAR 2012
- Abadie J.; Abbott B. P.; Abbott R.; et al. - "Search for gravitational waves from binary black hole inspiral, merger, and ringdown " - PHYSICAL REVIEW D Volume: 85 Issue: 8 Article Number: 089904 DOI: 10.1103/PhysRevD.85.
- Abadie J.; Abbott B. P.; Abbott R.; et al. - "Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1 (vol 82, 102001, 2010)" - PHYSICAL REVIEW D Volume: 85 Issue: 8 Article Number: 089903 DOI: 10.1103/PhysRevD.85.089903
- D. DelPrete, S. Pardi and G. Russo - "A Centralized, Extensible, Multilayer Monitoring System for Distributed Infrastructures: the Atlas Tier2-Naples experience" – In IEEE proceeding of CCP2011 June 21-24, 2011 Palinuro (SA) Italy
- D. DelPrete, S. Pardi and G. Russo - "Evaluating new cluster setup on 10Gbit/s network to support the SuperB Computing Model " - In IEEE proceeding of CCP2011 June 21-24, 2011 Palinuro (SA) Italy
- Abadie J.; Abbott B. P.; Abbott R.; et al. - Title: BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR Source: ASTROPHYSICAL JOURNAL Volume: 737 Issue: 2 Article Number: 93 DOI: 10.1088/0004-637X/737/2/93 Published: AUG 20 2011
- Abadie J.; Abbott B. P.; Abbott R.; et al. - Title: SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS Source: ASTROPHYSICAL JOURNAL LETTERS Volume: 734 Issue: 2 Article Number: L35 DOI: 10.1088/2041-8205/734/2/L35 Published: JUN 20 2011
- Abadie J.; Abbott B. P.; Abbott R.; et al.- Title: Search for gravitational waves from binary black hole inspiral, merger, and ringdown - Source: PHYSICAL REVIEW D Volume: 83 Issue: 12 Article Number: 122005 DOI: 10.1103/PhysRevD.83.122005 Published: JUN
- Accadia T.; Acernese F.; Antonucci F.; et al.- Title: Performance of the Virgo interferometer longitudinal control system during the second science run Source: ASTROPARTICLE PHYSICS Volume: 34 Issue: 7 Pages: 521-527 DOI: 10.1016/j.astropartphys.2010.11.006 Published: FEB 2011
- Accadia T.; Acernese F.; Antonucci F.; et al. - Title: Calibration and sensitivity of the Virgo detector during its second science run - Source: CLASSICAL AND QUANTUM GRAVITY Volume: 28 Issue: 2 Article Number: 025005 DOI: 10.1088/0264-9381/28/2/025005 Published: JAN 21 2011
- Accadia T.; Acernese F.; Antonucci F.; et al. - Title: The seismic Superattenuators of the Virgo

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