

Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Marafini Michela

Fiscal code:

Researcher unique identifier: ResercherID: C-7439-2014

Date of birth:

Nationality: Italian

EDUCATION

- 2008-2011 **Ph.D.** in Physics “*Physics studies and R&D towards the MEMPHYS experiment: a water Cherenkov Detector in Europe*” (*Mention très honorable*)
Supervisor: Prof. T. Patzak
Université Paris 7 - Laboratoire Astro Particules et Cosmologie (APC), Paris, France
- 2004-2007 **Master Degree** in Physics “*A water Cherenkov prototype for neutrino detection: light collection simulation studies and efficiency measurements*” (*110/110 cum laude*)
Supervisor: Prof. F.Ceradini and Prof. T.Patzak
Università Roma Tre, Roma, Italy – **Master Stage at APC** - Université Paris 7
- 2001-2004 **Bachelor Degree** in Physics “*The MDT detector for the ATLAS experiment at CERN: final certification procedure*” (*Full mark*) Supervisor: Prof. A. Tonazzo
Università Roma Tre, Roma, Italy – **Bachelor Stage at CERN**

CURRENT AND PREVIOUS POSITIONS

- 31/12/2018 - Researcher
Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Rome, Italy
Sapienza Università di Roma, Italy – Scienze di Base e Applicate per l’Ingegneria
- 2/2016-9/2018 Researcher (RTD)
Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Rome, Italy
Sapienza Università di Roma, Italy – Scienze di Base e Applicate per l’Ingegneria
- 7/2015-1/2016 Researcher Grant
Istituto Nazionale Fisica Nucleare (INFN), Rome division, Italy
- 8/2013-6/2015 Researcher Post-Doc
Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Rome, Italy
Sapienza Università di Roma, Italy – SBAI Department
- 5/2011-4/2013 Researcher Grant
Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Rome, Italy
Sapienza Università di Roma, Italy – Physics Department

FUNDED PROJECTS as *Principal Investigator*

- 2015 – 2018 “*A fast neutron-tracking device tailored for hadrontherapy dose monitoring applications*”, Id: RBSI140VL4 – Funding: 539 keuro. Italian Ministry of Education, University and Research (MIUR) with SIR Program (Scientific Independence of young Researchers): competitive funding (success rate of 2%) of research projects with high scientific quality developed by independent research teams, under the scientific coordination of a Principal Investigator at the start of his research activity.
- 2015 – 2017 “*MONDO (Monitor for Neutron Dose in hadrOntherapy)*” Funding: 132 keuro. INFN Young Researcher Grant award funding research projects to foster excellence among researchers working in the research and technological developments.

ASN National Scientific Qualification

ABILITAZIONE SCIENTIFICA NAZIONALE
10/04/2018 - 10/04/2024

FASCIA: II
ACADEMIC RECRUITMENT FIELD: 02/D1
ACADEMY DISCIPLINE: FIS/07

ABILITAZIONE SCIENTIFICA NAZIONALE
05/10/2018 - 05/10/2024

FASCIA: II
ACADEMIC RECRUITMENT FIELD: 02/A1
ACADEMY DISCIPLINE: FIS/04

TEACHING ACTIVITIES

- 2017 - 2020 *Assistant* for the course of *Physics Laboratory II* held by Prof. G.Cavoto.
Università di Roma, Italy - Physics Department
- 2016 - 2017 *Assistant* for the course of *Nuclear and Sub-nuclear laboratory* held by Prof.
S.Veneziano. Università di Roma, Italy - Physics Department
- 2004 – 2005 *Assistant* for the course of *Classical Mechanics and Thermodynamics* held by Prof.
F. De Notaristefani. Università Roma Tre - Faculty of Science

SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS

- 2008 – *Supervised*: 2 Post-Doc (employed with my project funds), 1 Ph.D., 9 Master Students and 8 Bachelor Students from different universities: Sapienza Università di Roma, Italy - Physics and Engineering Departments and Université Paris 7 - Physics Department - Laboratoire APC, Paris, France

COMMISSIONS OF TRUST

- 2015 – Reviewer of 5 international scientific journals:
Scientific Reports - Physics in Medicine and Biology – Measurement Science and Technology – Journal of Physics Communications - Nuclear Instruments and Methods in Physics A.

RESEARCH PERFORMANCES

My research focuses on research and development of new detectors and on application of particle physics detection technique to different applications, in particular to the medical one. The Particle Therapy field offered me the opportunity to investigate different new detectors (most of all tracking detectors!) with growing independency in leading projects and activities.

- h index of 15 with more than 80 publications in refereed international journals for a total of more than 750 citations (database: <http://www.scopus.com>);
- 15 publications in refereed international journals as first, last or corresponding author;
- 1 Granted patent request for medical application: “*Intraoperative detection of tumour residues using beta- radiation and corresponding probes*” WO 2014118815 A2;
- More than 15 presentations and seminars at international conferences and workshops;

MAJOR COLLABORATIONS

- Since 2016 *APSS - Trento Proton Therapy Center*. Collaboration activities with the proton beam facility (M.Durante, F.Tommasino): setup of the experimental room data acquisition system and beam monitoring;
- Since 2015 *CERN*. Collaboration with RD51 group (F.Sauli, L.Ropelewski) in studies and developments of next generation *Multi Purpose Gas Detector (MPGS)* with optical readout;
- Since 2013 *CNAO - Centro Nazionale di Adroterapia Oncologica, Pavia*. Member of the treatment quality assurance task force dedicated to the INSIDE project integration

- and *DoseProfiler* detector installation in the treatment room.
- 2013-2015 **HIT** - *Heidelberg Ion-Beam Therapy Center*: Measurements planning, experimental setup installation and commissioning, data taking and analysis of the *NCS@HIT* experiment with proton, ^{12}C , ^4He , and ^{16}O beams of energies of interest for PT applications (FP7 ULICE).
- 2012-2015 **GSI Helmholtzzentrum für Schwerionenforschung of Darmstadt**. Collaboration with the biophysics group (M. Durante, C. La Tessa) for the installation, commissioning, data taking and analysis of an experiment performed using ^{12}C beams of therapeutic energy.
- 2008-2011 **TUM** - *Technical University of Munich*. Design and feasibility studies of next generation large-scale liquid target neutrino experiments (F. von Feilitzsch, M. Wurm). Development of a novel photo-sensors detector and its readout;
- 2008-2011 **LAGUNA** - *Large Apparatus for Grand Unification and Neutrino Astrophysics*. International collaboration of institutions and industrial partners addressing the feasibility of a new European research infrastructure hosting deep underground neutrino detectors. I contributed to this FP7 Design Studies (A. Rubbia) with a work focused on a Water Cherenkov based underground detector.
- 2008-2011 **EUROnu** - *High Intensity Neutrino Oscillation Facility* part of the Europe FP7 Design Study. I worked in the WP in charge of the detector performances evaluation studying large Water Cherenkov experiment detection capability as a function of the proposed neutrino facilities characteristics (ex. energy, intensity, position).

TRACK RECORD

My research career has taken place along a path closely related to the application of particle physics techniques to the development of novel detectors and their various applications either to fundamental or applied research topics. I grew my experience in an international R&D environment, facing both hardware and software challenges. I have steadily increased my skills profiting from the participation to the work of different experimental groups, across different countries in an international environment, whose main activities were focused in different fields. I finally gained my independency in leading projects, coordinating teams and finalising R&D studies with an always-growing responsibility.

Ph.D in Neutrino Physics.

I started my Ph.D. research work focusing on the neutrino oscillation investigations and the related innovative R&D projects. I worked on the MEMPHYS megaton water Cherenkov in the framework of the LAGUNA and the EUROnu European projects. In particular, I studied possible large-scale next generation detectors for theta13 and mass hierarchy neutrino measurements. I presented MEMPHYS in international conferences [i,l]. I have also built **the MEMPHYS prototype**, Memphyno, which was **needed to implement the new developed electronic readout system** (PARISROC, LAL-ORSAY). Memphyno, a 7-tons water Cherenkov tank, has been entirely built at the APC laboratory (Paris 7): with the support of the technical divisions **I have developed its design, mechanical assembly and readout system**. I designed and built a 3D tracking hodoscope with segmented plastic scintillators and WLF fibres readout by MAROC boards that was placed on Memphyno for testing the PARISROC innovative readout electronics in water. I followed the project from the start up to its realisation: Memphyno is currently used to test the electronics and the photo-detectors in the LAGUNA collaboration. During the realisation of the prototype I was the responsible of the associated budget.

Physics applied to Particle Therapy.

In 2011 I decided to continue my activity on particle detection and development of photo-sensor devices in a different context: Particle Therapy (PT). I joined the ARPG group at Sapienza Università di Roma to work on a project funded by Italian research centres. The main goal of my research activity was to exploit the secondary particles detection in a device capable of monitoring the dose delivered to patients during PT treatments: the Dose Profiler (DP) [3], a range monitor detector developed within the INSIDE framework. I have worked to the construction of the on-line tracker that will start his monitoring operation at CNAO at the end of 2017. I reviewed the DP status, on behalf of the INSIDE collaboration, at [g].

Within the ARPG group **I have directly contributed to the study of the secondary particles emission, aiming to a precise measurement of rates, energy and spatial distributions, for charged particles and photons** (prompt and PET-gamma). In all the different phases of my work, I have faced and overcome different hardware and software challenges: I built and tested the detectors needed for the secondary fragments production measurements, performed the data analysis and published the results on peer-reviewed international journals. Since 2013 I have focused my activity on the DP, testing different layouts using scintillation fibres of various sizes and performing the related first efficiency calculations. I took part to **several data taking campaigns with proton and carbon-ion beams in different particle therapy centres**. During the HIT data taking (ULICE programme) I personally took care of the experimental setup planning and construction. The performed study of the different secondary particle emissions has been presented in several international conferences [d]. Since 2014 I am responsible of the forward fragmentation analysis [2].

In 2016 I joined the effort of building a new collaboration, FOOT, devoted to the Relative Biological Effectiveness (RBE) proton measurements for PT applications. I am currently for the FOOT calorimeter team making available the experience I gained in handling neutrons and charge fragments in crystals detectors such as BGO. In the FOOT collaboration I also gave an important contribution to the development of a phoswich detector made by the combination of fast plastic scintillator and BGO crystal. During the first FOOT data taking at GSI (Spring 2019) I coordinate the installation of the beam monitor detectors allowing the emulsion setup to be fully online controlled during the Oxygen irradiation.

New Detector developments: Towards high-risk-high-gain projects.

My interest in the development of new detectors led me to work with different crystals and scintillating materials. In 2011-2012, I decided to join a small group of researchers in the experimental effort of studying (and publish) the Cherenkov light emitted by TeO₂ crystals (for $0\nu 2\beta$ -decay). I was also interested in p-terphenil (organic plastic scintillator): I measured and published its transparency and attenuation length, opening to the ARPG group the opportunity to design an innovative probe for radio-guided surgery, for which an international patent is now pending.

Since 2014 I have started **a new research effort devoted to the study of the experimentally most challenging PT secondary radiation type: neutrons**. Neutrons produced in PT treatments are poorly known, therefore I proposed a neutron-tracking detector to be used in PT centres to characterise their production. The related project, MONDO [5], in December 2014 was funded by the INFN. In spring 2015, an upgraded version of the MONDO project got a larger funding by the Italian Ministry of Research. Since 2015 I am the coordinator of the project and I presented it in international conferences [a,b,c]. The research work performed within the MONDO project led to **the implementation of a new SPAD array sensor**. Fondazione Bruno Kessler (FBK) has developed the SBAM sensor in collaboration with CF (who is hosting the SIR project) that shares now its intellectual property. In March 2016 I started the construction of a MONDO prototype at SBAI department in close collaboration with the mechanical service. I organised data taking campaigns at the electron Beam Test Facility of Laboratori Nazionali di Frascati and at the protons experimental room of the Trento Proton Therapy Centre.. In 2019 the first SBAM chips have been produced and tested at SBAI and FBK. The evaluation of the expected MONDO performances and the results obtained with the prototype irradiation with different readout systems have been presented in international conferences [a,d] and have been published in referred international journals [4].

In 2015 I started to work on the **development of an optical readout for triple-GEM detectors (ORANGE)**. **I demonstrated, for the first time, the feasibility of such detectors**. In the last two years, triple-GEM detectors readout with commercial camera and lens has been successfully built. The results have been presented to the RD51 collaboration (CERN) [f] and put the basis for a joined effort in the development of next generation gaseous detectors. The promising performances obtained within ORANGE tracking detector, resulted in a proposal for an optimised detector, LEMON, currently exploited and considered for several different applications from the medical field up to the dark matter search. Up to now the optical GEM technology is exploited by the CYGNO experiment, dedicated to the dark matter detection in LNGS.

In 2018 I start collaborating with a new working group (join effort between the chemistry, engineering and physics department of SBAI) dedicated to the **development of innovative plastic scintillators:**

TOPs. I personally coordinate the laboratory tests and the characterisation of the new materials with different sources of radiation. The final aim of the new scintillators development is the realisation of fast timing detectors. In 2019 I irradiate two of the new TOPs scintillators with a proton beam (at CNAO) at different energy. I also provide the data analysis and the promising results has been accepted for a contribution in several international conferences. Moreover, future investigations would define the potentiality of pulse shape discrimination between neutrons and photons with new materials. With the results obtained so far on the new plastic scintillator sample a patent request procedure has been started.

- **Scientific products**

- **Publications** - This selection of **5 publications** highlights my personal contributions on particle therapy application.

1. C. Agodi, et al. (MM corr. author) “*Precise measurement of prompt photon emission from 80 MeV/u carbon ion beam irradiation*” JINST 7 3 (2012) P03001 doi: 10.1088/1748-0221/7/03/P03001
2. M. Marafini et al. “*Secondary radiation measurements for particle therapy applications: nuclear fragmentation produced by 4He ion beams in a PMMA target*” PMB 62 (2016) 4 1291 doi: 10.1088/1361-6560/aa5307
3. S. Muraro et al. “*Monitoring of hadrontherapy treatments by means of charged particle detection*” Review Article Front. Oncol. (2016) doi: 10.3389/fonc.2016.00177
4. R. Mirabelli et al. (MM corr. author) “*The MONDO detector prototype development and test: steps towards a SPAD-CMOS based integrated readout (SBAM sensor)*” TNS (2017) ISSN 1558-1578 doi: 10.1109/TNS.2017.2785768
5. M. Marafini et al. “*MONDO: a neutron tracker for Particle Therapy secondary emission characterization*” PMB 62 (2017) 32993312 doi: 10.1088/1361-6560/aa623a

- **Granted patent** request - WO Patent App. PCT (Patent Cooperation Treaty), PCT/IT2014/000025, for a “*Intraoperative detection of tumour residues using beta- radiation and corresponding probes*” WO 2014118815 A2 - <http://www.google.com/patents/WO2014118815A2?cl=en>

- **Conferences and Seminars**

Selection of the most important attended conferences and invited seminars were I presented the results obtained in the medical physics application field and in neutrino physics (Ph.D work).

- (a) 11/2019 RRS: 65th Annual Radiation Research Society Meeting - San Diego, USA. “*Measuring the impact of Nuclear Interaction in Particle Therapy and in Radio Protection in Space: the FOOT Experiment*”. Invited talk.
- (b) 6/2018 NRM: 15th Varenna Conference on Nuclear Reaction Mechanisms - Varenna, Italy. “*The FOOT Experiment*”.
- (c) 11/2017 PRESS: Proton therapy research SeminarS – Krakow, Poland. “*Secondary neutrons in particle therapy: the Mondo project*” Invited talk.
- (d) 6/2017 MLZ: Neutrons for Health - Bad Reichenhall, Germany. “*Characterisation of the secondary fast and ultrafast neutrons emitted in Particle Therapy with the MONDO experiment*”.
- (e) 4/2016 Seminar: Colloqui di Fisica, Università Roma Tre, Italy. “*The particle therapy and the role of secondary neutrons: the MONDO project*”. Invited talk.
- (f) 6/2015 RAD: Montenegro. “*Measurement of charged particle yields from therapeutic beams in view of the design of an innovative hadrontherapy dose monitor*”. Contribution on RAD 2015 Proceeding.
- (g) 5/2015 SRHITS: Space Radiation and Heavy Ions in Therapy Symposium - Osaka, Japan. “*The MONDO Project*”.
- (h) 3/2015 RD51: Second Special Workshop on Neutron Detection with MPGDs - CERN. “*MONDO: A neutron tracker for particle therapy secondary emission fluxes measurements*”. Invited talk.
- (i) 9/2014 SPET: II Symposium on Positron Emission Tomography - Krakow, Poland. “*The INSIDE project: Innovative solutions for in-beam dosimetry in hadrontherapy*”. Invited talk.

Contribution on Acta Physica Polonica A 127 5 (2015) 1465 – 1467 DOI: 10.12693/APhysPolA.127.1465 (cit 16)

- (j) 2/2014 Seminar: Novel particle physics applications - Sapienza Università Roma, Italy. “*New online methods to monitor dose profiling in particle therapy treatments*”.
- (k) 1/2010 EC: Epiphany Conference - Krakow, Poland “*Physics with the MEMPHYS Detector*”. Contribution on Acta Physica Polonica B 41(7), pp. 1733-1748 (cit 2)
- (l) 10/2009 NNN09: Workshop on Next Generation Nucleon decay and Neutrino Detectors - Estes Park, Colorado (USA). “*Water Cherenkov R&D in Europe*”. Invited talk.

**Rome,
22.05.2020**

Michela Marafini

CURRICULUM VITAE

(Frascati 23/10/2013)

INFORMAZIONI PERSONALI

Nome

ORECCHINI DARIO

Indirizzo

Telefono

E-mail

dario.orecchini@Inf.infn.it

Nazionalità

Italiana

Data e luogo di nascita

ESPERIENZE PROFESSIONALI

Il 2 Febbraio 1987 viene assunto nei Laboratori Nazionali di Frascati dell'INFN, presso il servizio di progettazione meccanica SPECAS (attuale SPAS). Da allora è impegnato nelle attività di progettazione di apparati di fisica sperimentale.

L'attività di progettazione prevede l'utilizzo di software di modellazione solida e di software di analisi strutturale (FEM).

Si occupa dell'effettuazione delle ricerche di mercato relative ai componenti utilizzati, dell'assegnazione delle lavorazioni da realizzare, nonché della supervisione ed il collaudo delle stesse.

Inoltre, gli impegni svolti riguardano il lavoro di coordinamento dell'installazione dei componenti di competenza degli apparati, nell'ambito delle collaborazioni sperimentali.

-1987, per l'esperimento Aleph (CERN), collabora alla progettazione delle camere esterne per la rivelazione di muoni.

-1988, per l'esperimento LVD (LNGS), collabora alla progettazione del sistema di camere a "Tubi larocci", e della struttura di supporto per l'esecuzione del test degli "LST".

-1990, per l'esperimento OBELIX (CERN), partecipa alla progettazione dei quattro super moduli "HARGD" per il rivelamento dei gamma, e al coordinamento delle fasi di assemblaggio.

-1991, per l'esperimento Jet Target (Lab. Frascati), progetta un sistema di Collimazione del fascio, e ne coordina le fasi di assemblaggio.

-1992, partecipa ad un concorso esterno per CTER presso i Laboratori di Frascati e lo vince classificandosi primo.

-1992, per l'esperimento ROG (Lab. Frascati), partecipa alla progettazione di massima della piattaforma ruotante per il Nautilus (antenna gravitazionale), ne supervisiona la progettazione esecutiva, la realizzazione e ne cura l'assemblaggio.

-1993, per l'esperimento KLOE (Lab. Frascati), cura la definizione generale dell'apparato, ed in particolare del calorimetro elettromagnetico.

- 1995, per l'esperimento FINUDA (Lab.Frascati), si occupa:
della definizione generale dell'apparato;
del sistema di rivelazione a "straw tubes";
della supervisione, della costruzione e dell'assemblaggio della struttura di supporto del rivelatore centrale "Clessidra", e del suo sistema di cablaggio;
del sistema di inserimento del rivelatore centrale nell'apparato.
 - 1997, per l'esperimento DEAR (Lab. Di Frascati), lavora alla definizione del progetto della piattaforma di supporto, ne supervisiona la stesura del progetto esecutivo, la realizzazione e l'assemblaggio.
Si occupa dell'allineamento della piattaforma sul fascio.
 - 1998, per l'esperimento DIRAC (CERN), collabora alla definizione della geometria degli specchi Cerenkov, cura la progettazione e la realizzazione della struttura di supporto del rivelatore.
Partecipa alle fasi di coordinamento e assemblaggio.
 - 2000/2007, per l'esperimento OPERA (LNGS), cura la progettazione del sistema di spettrometri magnetici, comprese le strutture di supporto del sistema degli altri rivelatori collegati e ne supervisiona la realizzazione.
Partecipa al coordinamento delle attività di assemblaggio fino al 2007.
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-2007, con riferimento al bando n.12375/2007 accede al profilo di CTER.

- 2008/2013, per l'esperimento PANDA (GSI), nel "Technical Board" della collaborazione ha la responsabilità della meccanica e dell'integrazione nell'apparato del rivelatore a "Straw Tubes". Si occupa inoltre della integrazione dei relativi sistemi di distribuzione gas e dell'elettronica di alimentazione e di acquisizione.
E' inoltre coinvolto nella progettazione del " telaio centrale di supporto" del "central tracker" e del "Vertex Detector".
- 2010, per l'esperimento BES_III (ISR), ha curato lo sviluppo del progetto e della realizzazione del "calorimetro a piccolo angolo".
- 2012/2013, per l'esperimento Clas_12 (Jlab), sviluppa il progetto del prototipo del RICH, ne supervisiona la realizzazione ed il montaggio dei vari componenti e ne coordina l'installazione sul fascio (CERN-T9) per i test.

E' responsabile del "Modulo 1 - Disegno e Costruzione" del progetto premiale CLAS-MED, approvato dal MIUR nel 2013.
Attualmente è impegnato nel progetto finale del modulo del RICH che sarà installato nell'esperimento CLAS_12 al Jefferson Laboratory, con responsabilità di coordinamento nella definizione della meccanica e nell'installazione nell'apparato sperimentale.
- 2014/2017, supervisiona e coordina la realizzazione della struttura meccanica Esterna (Shell) del RICH presso la ditta TecAvan di Veroli (Italia).
Al Jefferson Laboratory, sempre per il RICH di Clas12 coordina e partecipa alle seguenti attività:
assemblaggio finale della Shell;
assemblaggio degli specchi piani e dello specchio sferico;
assemblaggio dei moduli di Aerogel;
assemblaggio dell'Electronic Panel nella Shell;
cablaggio complessivo.

-2015, il 1 luglio è nominato responsabile del reparto progettazione della divisione Ricerca dei Laboratori Nazionali di Frascati.

-2018/2019, inizio della collaborazione nello sviluppo dei Patch Panels (PP1) del Central Tracker dell' esperimento ATLAS al CERN, con sviluppo delle ipotesi progettuali e coordinamento della realizzazione dei relativi prototipi.

Per Clas12 inizia l'attività di revisione del progetto del RICH finalizzata alla realizzazione del secondo modulo che sarà installato presso il Jefferson Laboratory. Inizia l'attività di supervisione e coordinamento Della struttura meccanica Esterna (Shell) del RICH presso la ditta TecAvan di Veroli (Italia).

CORSI DI AGGIORNAMENTO

FESTO, introduzione alla pneumatica.

OMEKO, saldatura, aspetti metallurgici.

CISAR, metallurgia applicata alla saldatura.

SKF, proporzionamento e applicazioni dei cuscinetti.

DIGITECNO, Autocad Mechanical Desktop, uso avanzato.

INFN, tecnologia del vuoto ed ultravacuo.

ISQ, progettazione delle macchine in sicurezza.

S.Te.P., Autodesk Inventor, uso avanzato.

S.Te.P., Autodesk 3Dstudio Viz, uso avanzato.

AIR LIQUIDE, la sicurezza nell'uso dei gas tecnici.

INFN-LNF, la manipolazione dei gas in sicurezza.

INFN, i rischi elettrici e meccanici nell'INFN.

INFORDATA, teoria degli elementi finiti e analisi FEM in Catia V5.

IPERELLE, CATIA V5, Structural Analysis Fundamentals P2.

IPERELLE, CATIA V5, Structural Analysis Advanced P2.

IPERELLE, CATIA V5, Fitting Simulation P2.

British Institute of Rome, ultimo livello superato di lingua inglese: 4° Upper Intermediate "A"..

SPAZIOSYSTEM, CATIA V5 Fundamentals, CATIA V5, Tubing Design. nb

INFN, 4° corso su Qualità e Progettazione di Sistema per Esperimenti di Fisica nello Spazio e negli acceleratori.

INFN, corso di formazione locale, "La fisica moderna: stato attuale e futuri sviluppi"li Acceleratori.

ENGISOFT SpA, "Corso di addestramento introduttivo ESAComp".

ABEX ITALIA Srl, CATIA V5 – Part Design Expert – Structure Design.

ANSYS, DESIGN MODELER & MESHING Introductory Training – FLUENT Introductory Training.

ADOBE Illustrator CC Base.

ENGISOFT SpA, ANSYS CorsoTermica & Introduzione Linguaggio APDL.

INFN, Rischi da radiazioni ottiche artificiali.

INFN, formazione alla Radioprotezione.

INFN – LASA Corso Avanzato di Tecnologia del Vuoto

ABEX ITALIA Srl, CATIA V5, Surface Design.

INFN, Introduzione alla Progettazione con i Materiali Compositi.

Accademia Ericlatea, formazione del preposto.

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name

TOMASSINI SANDRO

Address

Telephone

Fax

E-mail

Nationality

Date of birth

WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
- references

Since January 2014 up to now
INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
Mechanical engineering
ELI-NP, work package leader of LINAC Photon Injector.
Management of the Mechanical design, integration and installation @ Magurele (Romania) of the low energy LINAC.
Prof. Palumbo Luigi, Dr Alessandro Variola,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
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- Main activities and responsibilities
- references

Since January 2013 up to now
INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
Mechanical engineering
JLAB, in charge of CLAS12 rich design.
Mechanical design of the CLAS12 rich detector at Jlab. The Design is mainly focused on the low mass, high stiffness Carbon Fiber Reinforced Polymer mirror and high quality optical surfaces.
Dr. Rossi Patrizia, Dr. Lucherini Vincenzo,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
- reference

Since April 2012 up to December 2013
INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
Accelerator Division, mechanical engineering department
Cabibbo-Lab head of the Mechanical Engineering, Design and ALignment Service (MEDALS)
Mechanical design and layout of the SuperB complex at Tor Vergata. Design of the alignment network. Civil infrastructures preliminary design. Cost evaluation of the mechanical components, alignment network construction and mechanical installation.
Dr. Raimondi Pantaleo, Prof. Giorgi Marcello, Dr Leith David, Prof Hitlin David, Dr Guy Wormser,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
- reference

Since May 2009 to February 2012
INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
Accelerator Division, mechanical engineering department
LNF Accelerator Division head Deputy for the technical part only
Supervisor of mechanical engineering design and in charge of DAFNE mechanical installation and KLOE Roll-in.
Dr. Raimondi Pantaleo, , Dr. Milardi Catia, Dr. Zobov Mikhail,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
 - reference

Since February 2008 to May 2009
 INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
 Accelerator Division, mechanical engineering department
 SPARX TDR, Mechanics and alignment work package leader
 Mechanical design and layout of the SPARX complex. Technical Design Report writing for the mechanics, alignment and layout.
Prof. Palumbo Luigi,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
 - reference

Since November 2006 to February 2008
 INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
 Accelerator Division, mechanical engineering department
 DAFNE upgrade, implementation of the large Piwinsky angle and crab waist scheme
 Supervisor of the mechanical design, UHV component design, Planning of the dismantling and mounting operations in DAFNE, Coordinator of the operations inside the DAFNE hall, Coordinator of the different teams installing equipments on site.
Dr. Raimondi Pantaleo, Dr. Milardi Catia, Dr. Zobov Mikhail,

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
 - reference

Since December 2004 to May 2007
 INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
 Accelerator Division, mechanical engineering department
 SPARC, Mechanical design and Installation
 Mechanical design, installation and alignment of the SPARC complex
Prof. Palumbo Luigi, Dr. Ferrario Massimo

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
 - references

Since November 1998 to December 2004
 INFN-LNF (National institute for nuclear physics), via E. Fermi 40, I00044, Frascati (Rm) Italy
 Research Division, FINUDA collaboration group
 FINUDA, Mechanical design, detectors integration and Installation in DAFNE
Coordination of Mechanical design, integration of different detectors and installation in DAFNE.
Dr. Lucherini Vincenzo, Prof. Tomofumi Nagae

EDUCATION AND TRAINING

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

University of Rome "La Sapienza", faculty of Aeronautical Engineering

University degree in Aeronautical Engineering. The degree thesis (title: "Structural analysis and critical dimension evaluation of cracks in between thermal protection and motor case in a solid rocket motor", tutor: Prof. Mario Marchetti, supervisor Ing. Gianfranco Reggi Fiat-Avio BPD Area, Colleferro), was performed in collaboration with FIAT-AVIO BPD Area. The subject was focused on damage tolerance verification of bonded interfaces by means of adhesive fracture theory and development of a new experimental methodology for adhesive fracture energy determination.

- Dates (from – to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

"Liceo Scientifico Leonardo da Vinci" Sora (FR)

Upper school leaving certificate in Scientific Studies

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

Good

Good

Good

- Reading skills
- Writing skills
- Verbal skills

FRENCH

Basic

Basic

Basic

DATE
SIGNATURE

Wednesday, April 12th, 2017

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| | Aerogel mass production for the CLAS12 RICH: Novel characterization methods and Optical Performance M Contalbrigo, I Balossino, L Barion, G Battaglia, AY Barnyakov, ... Nuclear Instruments and Methods in Physics Research Section A: Accelerators ... | | 2017 |
| | The large-area hybrid-optics RICH detector for the CLAS12 spectrometer M Mirazita, G Angelini, I Balossino, L Barion, K Bailey, F Benmokhtar, ... Nuclear Instruments and Methods in Physics Research Section A: Accelerators ... | | 2017 |
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| | Technical Design Report EuroGammaS proposal for the ELI-NP Gamma beam System O Adriani, S Albergo, D Alesini, M Anania, D Angal-Kalinin, P Antici, ... arXiv preprint arXiv:1407.3669 | 3 | 2014 |
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| Geometric Beam Coupling Impedance of LHC Secondary Collimators O Frasciello, S Tomassini, M Zobov, A Grudiev, N Mounet, B Salvant TUPRI049, Proceedings of IPAC 14 | <u>1</u> | |
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| THE ALIGNMENT OF THE SPARC FACILITY M Esposito, M Paris, F Sgamma, S Tomassini, M Troiani | - | |