ANTONIO FALONE

ESPERIENZA

INFN-LNF. PRIMO TECNOLOGO, 01/09/2017 - OGGI

- Responsabile project management office progetto EuPRAXIA.
- Responsabile scientifico progetto LATINO
- Membro del Comitato Nazionale di Project Management
- Chair del WP Project Management progetto CNAF reloaded
- Docente dei corsi di Project Management Basic per i dipendenti dell'istituto.

INFN-LNF. ART.2222, 01/09/2014 - 31/08/2017

• Deputy Machine Leader - Progetto Eurogammas ELI-NP

TTI NORTE, SECTION LEADER, 01/09/2011 - 31/08/2014

- Responsabile sezione Science Activities.
- Project Manager per lo sviluppo di amplificatori a stato solido.

PAUL SCHERRER INSTITUTE, RF SCIENTIST, 01/09/2008 - 31/08/2011

- Responsabile sistema RF deflecting cavities per il progetto SwissFEL
- Responsabile sistema RF X-Band per il progetto SwissFEL
- Attività di operazioni SLS

CELLS, LINAC ENGINEER, 09/12/2004 - 31/08/2008

• Responsabile per la progettazione, procurement, costruzione e installazione dell'iniettore LINAC della sorgente di luce di sincrotrone ALBA.

Via Enrico Fermi 54, 00044 Frascati (Roma) - 0694038256 - antonio.falone@lnf.infn.it

ISTRUZIONE

LAUREA MAGISTRALE IN INGEGNERIA ELETTRONICA PRESSO L'UNIVERSITÀ DEGLI STUDI DI ROMA "LA SAPIENZA".

CERTIFICAZIONE PROJECT MANAGEMENT PROFESSIONALE - PMP PRESSO PROJECT MANAGEMENT INSTITUTE.

FORMAZIONE

- Project management for Scientists and Engineers USPAS 06/2015
- Accelerator Physics Cern Accelerator School 09/2007
- Radioactive Installation Supervisor Category B 06/2007
- Microwave Linear Accelerator USPAS 01/2006
- Accelerator physics and technologies JUAS 02/2004

Curriculum Vitae Lucia Lilli

Lucia Lilli, dopo il conseguimento della laurea in Lingue e letterature straniere" (francese) conseguito all'Università di Pisa (A. A. 1987/88), svolge attività di segreteria scientifica e oragnizzazione di eventi in studi di PCO e istituti di ricerca all'Università di Pisa e alla Scuola Superiore S. Anna di Pisa.

E' dipendente a tempo indeterminato dell'INFN – Sezione di Pisa dal febbraio 1994, prima con profilo di Collaboratore di Amministrazione e dal 2004 con quello di Funzionario di Amministrazione, sempre con mansioni di segreteria scientifica e di direzione.

Attività svolta: responsabile dell'organizzazione di congressi nazionali ed internazionali (dalla definizione del budget fino alla stampa dei proceedings) – gestione dei contratti della Comunità europea (fino al 2013) – coordinamento delle attivà di divulgazione scientifica dell'ente (seminari, mostre, programmi di scambio per gli studenti, assegni di ricerca, dottorati) – stesura dei preventivi finanziari degli esperimenti – RUP – referente per la formazione (da novembre 2019).

Pisa, 20 novembre 2022

In fede

Curriculum vitae

PERSONAL INFORMATION

Family name, First name: Marafini Michela

Researcher unique identifier: ResercherID: C-7439-2014

Nationality: Italian

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 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

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	<i>Master Degree</i> 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) <u>Supervisor: Prof. A. Tonazzo</u>
	Università Roma Tre, Roma, Italy – Bachelor Stage at CERN

FUNDED PROJECTS as Principal Investigator

2020 – 2022 *"FlashDC"* – Funding: 149 keuro. Domanda n. PROT. A0375-2020- 36748. Avviso Pubblico "Gruppi di ricerca 2020" - POR FESR Lazio 2014-2020.

- 2015 2018 *"A fast neutron-tracking device tailored for hadrontherapy dose monitoring applications*" Funding: 539 keuro. Id: RBSI140VL4. 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.

FUNDED PROJECTS as a member

- 2022 *"FRIDA"* Call CSNG5 INFN. Flash radiotherapy with hight dose-rate. I participate in WP2 in the beam monitor development. Funding 2022: 225 keuro. PI: Alessio Sarti (Dipartimento SBAI, Sapienza)
- 2020 2022 *"3DIT"* Bando di Ateneo Progetti Medi 2021. 3D Printed Plastic Scintillator. I am one of the main actors in this multidisciplinary chemistry-physic development. Funding 10 keuro. PI: Leonardo Mattiello (Dipartimento SBAI, Sapienza)
- 2018 2021 *"SPARE (Space Radiation Shielding)"* -. Premiale 2016. Irradiation facilities in INFN laboratories (TIFPA and LNL) for space radiation applications. I have been part of WP400 *"Detectors"*. Funding 1.432 Meuro. PI: Marco Durante (TIFPA, GSI)
- 2013 2016 *"INSIDE" MIUR PRIN 2011.* Development of monitoring for charged particles. I have been part of WP5 "Dose Monitoring for Hadrontherapy" and WP6 "Nuclear Fragmentation Studies for Hadrotherapy". Funding: 977.9 keuro. PI: Alberto Del Guerra (Università di Pisa).

ASN National Scientific Qualification

ABILITAZIONE SCIENTIFICA NAZIONALE FASCIA: II

- 10/04/2018 10/04/2024 ACADEMIC RECRUITMENT FIELD: 02/D1 ACADEMY DISCIPLE: FIS/07
- 05/10/2018 05/10/2024 ACADEMIC RECRUITMENT FIELD: 02/A1 ACADEMY DISCIPLE: FIS/04

TEACHING ACTIVITIES

- 2017 2022Assistant 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 D2epartment
- 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

- 5 Post-Doc (employed with my projects funds)
- 2 Ph.D.

o 12 Master and 13 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

- Member of *PhD Commission* Juri de Thèse: 1 PhD (ITM Atlantique et Ecole Doctorale 3M) commission for the PhD in Physique Subatomique et Instrumentation Nucléaire.;
- Member of **Commissions**:
 - 4 LNF (Laboratori Nazionali di Frascati, INFN) call for applications for CTER (Collaboratore tecnico degli enti di ricerca).
 - 3 CREF call for applications for research fellowship
- International scientific journals **Reviewer**:
 - Scientific Reports Physics in Medicine and Biology Measurement Science and Technology – Journal of Physics Communications - Nuclear Instruments and Methods in Physics A - Frontiers in Oncology.
- National Scientific Responsibilities:
 - From 2021 Local Responsible for the INFN FOOT (Member of the IB)
 - From 2020 Responsible of all Radio-hAdron Therapy (RAT) at CREF
 - 2015-2016 National Responsible for the INFN MONDO

RESEARCH PERFORMANCES, EXPLOITATION AND DISSEMINATION

My research focuses on research and development of innovative detectors and to the application of particle physics detection technique to different fields, in particular to the medical one. The scientific outcome of my research is explicated in several publications on referred journals and presentations at conferences and seminars.

- h index of 19, with more than 120 publications in refereed international journals for a total of more than 1100 citations (database: <u>http://www.scopus.com</u>);
- o 19 publications in refereed international journals as first, last or corresponding author;
- More than 15 presentations and seminars at international conferences and workshops;

The technology transfer is of large importance in applied physics. I devote a huge effort to make TT of our research possible through the exploitation of different possible paths.

- 2 Granted patents:
 - 2021 P3080IT00, submitted request 14.12.2021. Development of a new class of plastic scintillators for the realisation of fast timing detectors. Shared ownership between SBAI and CREF.
 - 2014 PCT/IT2014/00002: "Intraoperative detection of tumour residues using betaradiation and corresponding probes" WO 2014118815 A2. Shared ownership between INFN, SBAI and CREF.
- Realisation of an international consortium of companies and research organisations as the scientific and technical coordinator for the reSPECT project (6 partners: Fondazione Bruno Kessler Italy, Museo Storico della Fisica e Centro Studi e Ricerche E.Fermi Italy, Università degli Studi di Roma La Sapienza Italy, Synective Labs Aktiebolag Sweden, Universitar Medisch Centrum Utrecht Netherlands, Molecubes NV Belgium);
- Collaboration with the SIT- Sordina IORT Technologies for a TPS IORT development
- Participation to projects with dedicated call-funding opportunities:

- POR Regione Lazio 2020 dedicated to the tecnologi transfer to companies (funding obtained)
- HORIZON-EIC-2021-PATHFINDEROPEN-01 (excellent evaluation, 4.15/5, not selected because of the budgetary resources available for the call)
- H2020-FETOPEN-2018-2019-2020-01 (excellent evaluation, 4.20/5, not selected because of the budgetary resources available for the call)

My large public communication and dissemination activity is mainly focused to the Enrico Fermi Museum and the organisation of events at CREF (Museo Storico della Fisica e Centro Studi e Ricerche E.Fermi).

- Organisation and participation of:
 - scientific aperitif event aperitivo scientifico (NET Scienza Insieme, 6/2021)
 - event of *Talenti per la Scienza* (NET Scienza Insieme, 7/2021) at parco Talenti
 - open projection of the movies: Una cattedra per Laura Bassi, Bruno Pontecorvo, La particella Fantasma (9/2021)
 - open access of the center for the *Notte dei Ricercatori 2021 (9/2021)*
- Guides to the museum, about 150 visitors and students (2019-2020);
- Inauguration event of CREF infrastructure (10/2019);

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. The Particle Therapy field offered me the opportunity to investigate different new detectors with growing responsibilities. I finally gained my independency in leading projects, coordinating teams and finalising R&D studies with an always-growing responsibility.

I started my Ph.D. research work focusing on the neutrino oscillation investigations and the related innovative R&D projects. I worked on the large-scale next generation detectors neutrino measurements in the framework of the LAGUNA and the EUROnu European projects [10]. I presented MEMPHYS [9], megaton water Cherenkov, in international conferences (xii, xiii). I developed, design, mechanical assembled and instrumented with a readout system the MEMPHYS prototype, which was needed to implement a new electronic readout based on PARISROC system (LAL-ORSAY). During the realisation of the prototype I was the responsible of the associated budget. The R&D experience has given me the opportunity to explore many aspects of particle detection.

In 2011 I decided to continue this activity on development of photo-sensor devices in a different context: the Particle Therapy (PT). I joined the ARPGroup at Sapienza Università di Roma. At the time the activities were focused on the characterisation of the secondary particles produced in PT treatments and to their exploitation in the monitoring of the dose delivered to patients during oncological treatments. 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 overcame different hardware and software challenges: I assembled 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 construction of an on-line tracker, the Dose Profiler (DP), within the INSIDE framework. I characterised different layouts using scintillation fibres of various sizes and performing the related first efficiency evaluations.

From 2012, with the ARPGroup I took part to **many data taking campaigns with proton, carbon, helium and oxygen ion beams in different particle therapy centres** (HIT, GSI, CNAO, APSS). I personally took care the several experimental setups planning and construction. I contribute to the data analysis of the several performed study and I presented and published the results in several international conferences (viii) and papers [2,5].

The DP continued with MonteCarlo and data taking studies and in 2017 it started a clinical trial on monitoring operation at CNAO. I reviewed and presented the DP status, on behalf of the INSIDE collaboration (xi) and the first results of inter fractional monitoring has been published [4].

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 (ad publish) the Cherenkov light emitted by TeO₂ crystals (for $0v2\beta$ -decay). I was also involved in p-terphenil characterisation (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 [7], for which an international patent is now pending.

Since 2014 I started **my own 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, in December 2014 was funded by the INFN and in spring 2015 (upgraded version) I received a larger funding by the Italian Ministry of Research (SIR2014). Since 2015 I am the coordinator of the project. 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 CREF that shares now it 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 (via FLUKA MC Simulation) and the results obtained with the prototype irradiation with different readout systems have been presented in international conferences (ii,v-vii, ix) and have been published in referred international journals [1].

During the optimisation of the MONDO detector layout I start working on the **development of an optical readout for triple-GEM detectors** (ORANGE). I **demonstrated, for the first time, the feasibility of such detectors**. In less than two years a triple-GEM detectors readout with commercial camera and lens has been successfully built. The results have been presented to the RD51 collaboration (CERN) (x) and put the basis for a joined effort in the development of next generation gaseous detectors. The promising performances obtained within ORANGE tracking detector [8], resulted in a proposal for optimised detectors (ex. 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, funded by INFN, dedicated to the **dark matter detection** at LNGS.

From 2016 I joined the effort of building the FOOT collaboration, an experiment devoted to the **proton Relative Biological Effectiveness (RBE)** evaluation for PT applications. I worked in the development of the calorimeter and the start detectors making available the experience I gained in handling inorganic crystals for calorimetric purpose and organic scintillators for time detectors developments. In the FOOT collaboration I gave an important contribution to the R&D of a phoswich detector made by the combination of fast plastic scintillator and BGO crystal. I presented the status of the FOOT on behalf of the collaboration at (iii) and (iv) international conferences. During the FOOT data taking with oxygen ion in spring 2019 at GSI I coordinated the installation of the beam monitor detectors allowing the emulsion setup to be fully online controlled during the irradiation. In winter 2020 I have been the **run coordinator of the carbon ion data taking at GSI** with the electronic FOOT setup. From summer 2021 I am the FOOT local responsible at INFN Rome1 and I am the member of the FOOT Internal Board.

In 2019 I had the chance to put in use the know-how I gained on tracking detectors in the Particle Therapy field supporting a young national grant (PAPRICA, PAir PRoduction Imaging ChAmber), devoted to the **detection of prompt photons** emitted in PT treatments, to monitor the range of the beam in the patient. The detector expected performances have been studied through a MC FLUKA simulation and have been published in [3].

In 2018 I start cooperating in a join effort between chemistry, engineering and physics researchers at SBAI. We decided to **investigate and develop a new family of fluorens for plastic scintillators developments.** I selected the most promising attempts in order to optimise fast plastic scintillators (Time Of flight Plastic scintillators, TOPs). I personally coordinate the laboratory tests and the characterisation of the new materials with different sources of radiation. Form 2019 I characterised the new TOPs scintillators with proton beam (at CNAO) and carbon ion (at GSI) at different energy and with m.i.p. at SBAI. I also provide the analysis of the collected data and the promising results [6] has been accepted for contribution in several international conferences. A paper is in preparation. With the results obtained so far a patent request has been submitted in December 2021. In this framework, I am coordinating a feasibility study dedicated to the development of a plastic scintillator dissolved in the 3D printer resins. The *veroclear* material (https://www.stratasys.com/materials/search/veroclear) is highly transparent and we demonstrate the possibility of dissolved the TOPs scintillator in this solvent. The study has been supported by the 3DIT university funding (**3D Printed Plastic Scintillator**: SBAI, INFN Roma1 and CREF collaboration).

From 2019 I start investigating the possibility of integrate the increasing chemistry skills in our activities. Together with the same chemistry, engineering and physics team of researchers I elaborate the reSPECT idea: a new family of gamma imaging detectors based on organic scintillators combined with 3D printed collimators, allowing for a significant cost reduction while achieving a beyond state-of-the-art resolution and count-rate capability. The reSPECT active material is an **enriched hi-Z organic scintillator** that allows for a detector integration in MRI systems, leading to a 10 time better signal to noise ratio. The key aspect is the possibility to detect via photoelectric effect the few hundred of keV photons in a doped organic scintillator. Up to now an international consortium has been constituted and the test on the sample of enriched Hi-Z organic scintillator is undergoing under my supervision at SBAI.

In the last two years the radiotherapy community has been pleasantly shocked by the more and more scientifically trustable evidences of the so called Flash effect. Within the ARPGroup I propose a **beam monitor dedicated to next generation beams at Flash intensities** based on the **air fluorescence**. In 2020 I ask and obtained a regional funding to support the investigation in this topic (FlashDC project) and up to now two prototypes of beam monitors for electron flash beam have been constructed and tested at the SIT electron machines. The FlashDC project is now (from November 2021) part of a larger community (FRIDA) that collects the effort of the INFN researchers on the Flash innovation.

Beside the Flash effect the SIT company asked for a tool capable of dose computation for an IOeRT mobile electron linear accelerator. Therefore, since 2020 I cooperate to the development with a GPU-based fast Monte Carlo of a fast MC tool tuned for IOeRT application (i).

• <u>Scientific products:</u> selection of 10 publications highlighting my personal contributions

1. M. Marafini et al. Mondo: A neutron tracker for particle therapy secondary emission characterisation. doi: 10.1088/1361-6560/aa623a

- 2. M. Marafini et al. Secondary radiation measurements for particle therapy applications: Nuclear fragmentation produced by 4he ion beams in a pmma target. doi: 10.1088/1361-6560/aa5307
- 3. M. Toppi et al. *Paprica: The pair production imaging chamber- proof of principle.* doi: 10.3389/fphy.2021.568139
- 4. M. Fischetti et al. *Inter-fractional monitoring of 12C ions treatments: results from a clinical trial at the cnao facility.* doi: 10.1038/s41598-020-77843-z
- 5. L. Piersanti et al. *Measurement of charged particle yields from pmma irradiated by a 220 Mev/u 12C beam.* doi: 10.1088/0031-9155/ 59/7/1857
- 6. R. Mirabelliet al. Tops project: Development of new fast timing plastic scintillators. doi: 10.1393/ncc/i2020-20017-4.
- 7. E.S. Camillocci et al. A novel radio-guided surgery technique exploiting beta- decays. doi: 10.1038/srep04401
- 8. M. Marafini et al. *High granularity tracker based on a triple-gem optically read by a cmos-based camera*. doi: 10.1088/1748-0221/10/12/P12010
- 9. L. Agostino et al. *Study of the performance of a large scale water- cherenkov detector (Memphys)* doi: 10.1088/1475-7516/2013/01/024
- 10. M. Wurm et al. *The next-generation liquid- scintillator neutrino observatory Lena*. doi: 10.1016/j. astropartphys.2012.02.011

• <u>Conferences and Seminars:</u> Selection of my most important contributions in conferences

- i) 09/2022 SIF: 107 Congresso Nazionale Società Italiana di Fisica online. "Dose computation with a GPU-based fast Monte Carlo for an IOeRT mobile electron linear accelerator". Invited talk.
- ii) 6/2019: PTCOG58 Manchester, UK. "Characterisation of the secondary neutron production with the MONDO project: an innovative tracker of ultra-fast neutrons optimised for Particle Therapy applications". Poster Contribution.
- iii) 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.
- iv) 6/2018 NRM: 15th Varenna Conference on Nuclear Reaction Mechanisms Varenna, Italy. "*The FOOT Experiment*".
- v) 11/2017 PRESS: PRoton thErapy research SeminarS Krakow, Poland. *"Secondary neutrons in particle therapy: the Mondo project"* Invited talk.
- vi) 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".
- vii) 4/2016 Seminar: Colloqui di Fisica, Università Roma Tre, Italy. *"The particle therapy and the role of secondary neutrons: the MONDO project"*. Invited talk.
- viii) 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.
- ix) 5/2015 SRHITS: Space Radiation and Heavy Ions in Therapy Symposium Osaka, Japan. "The MONDO Project".
- x) 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.
- xi) 9/2014 SPET: II Symposium on Positron Emission Tomography Krakow, Poland. *"The INSIDE project: Innovative solutions for in-beam dosimetry in hadrontherapy"*. Invited talk.

- xii) 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)
- xiii) 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, 15.06.2022

Michela Marafini