

# Elena Amato

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<b>CURRENT POSITIONS</b>	<b>Lead Researcher</b> INAF - Osservatorio Astrofisico di Arcetri	2024 -
	<b>Deputy Director</b> INAF - Osservatorio Astrofisico di Arcetri	2024-
	<b>Visiting Professor</b> Gran Sasso Science Institute, L'Aquila, Italy	2021-
	<b>Contract Professor</b> University of Florence, Italy	2017-
<b>PREVIOUS POSITIONS</b>	<b>Researcher</b> INAF - Osservatorio Astrofisico di Arcetri	2001 -2023
<b>ACADEMIC QUALIFICATIONS</b>	National Habilitation as full professor	2020
	National Habilitation as associate professor	2013
	Ph.D. in Astronomy, University of Florence, Italy	2001
	Master in Physics, University of Florence, Italy	1998
<b>VISITING POSITIONS</b>	Visiting Professor, Gran Sasso Science Institute (GSSI), L'Aquila, Italy, 2 weeks/year	2022 -
	Visiting scientist at KITP, Santa Barbara, CA, USA for 1 month	2005-2009-2019
<b>CAREER BREAKS</b>	424 days of parental leave	2004-2017
	3 breaks of 5 months each for maternity leave	2004-2007-2010

**RESEARCH INTERESTS** My research interests are in the field of *theoretical High Energy Astrophysics*. From the point of view of basic physics processes, I am interested in the *acceleration and transport of relativistic particles* and the *physics of relativistic plasmas*. From the point of view of specific astrophysical sources and phenomena, my interests cover *Cosmic Rays, Supernova Remnants, Pulsar Wind Nebulae* and galactic sources of non-thermal emission in general.

**IMPACT OF RESEARCH** My research has led to the publication of

- **84** short author list articles in peer-reviewed international journals
- **10** peer-reviewed articles within large international collaborations
- more than **30** conference proceedings
- **2** contributions to books
- several contributions to roadmaps

with a total of more **6000 citations**, **H-index 46** and **normalized H-index 24** according to ADS. A complete list of my publications can be found [here](#).

The results of my research have granted me invitations to deliver

- more than **30** invited talks at national and international conferences in the last ten years (a partial list of these can be found [here](#))
- more than **11** colloquia in Research Institutes in the last 5 years (listed [here](#)).

**ADDITIONAL ACTIVITIES** The rest of this document provides a list of the many tasks I have been engaged with, besides doing research. These include: [teaching](#) University courses, [supervising](#) students and postdocs; obtaining and managing research [funds](#); taking part in/coordinating [working groups](#), both within small research teams and large collaborations; serving as a member of [scientific panels](#) and advisory boards; serving as a scientific [reviewer/evaluator](#) for [juries](#), [selection committees](#), [funding agencies](#), peer-reviewed [journals](#); taking part in the organization of scientific conferences (both as a [member](#) or as the [chair](#) of the Scientific Organizing Committee ([SOC](#))); serving as [guest editor](#) for special issues of international journals and as editorial board member for the writing of [guidelines](#); finally [coordination and management](#) roles at the local level and [public outreach](#). A partial list of these activities is provided in the following.

<b>REGULAR TEACHING ACTIVITY</b>	<i>Plasma Physics around Astrophysical Compact Objects</i>	2022–
	PhD course, 12 hr/year Gran Sasso Science Institute (GSSI), L’Aquila, Italy	
	<i>High Energy Astrophysics</i>	2016–
	master course, 18 hr/yr University of Florence	
	<i>Cosmic Accelerators</i>	2012–2016
	PhD course, 6 hr/yr University of Florence	
<b>TEACHING AT INTERNATIONAL PHD SCHOOLS</b>	<i>Particle acceleration</i>	2024
	“2nd CTAO School”, Bertinoro, Italy, June 14-25, 2024	
	<i>Cosmic Rays</i>	2022
	International PhD school “Life and death: from stars to compact objects”, Asiago, Italy, Aug. 28-Sept. 2, 2022	
	<i>Particle Acceleration in Pulsars and Pulsar Wind Nebulae</i>	2022
“Enrico Fermi International School of Physics” on <i>Cosmic Ray Foundations</i> , Varenna, Italy, June 23-29, 2022		
	<i>Pulsar Wind Nebulae</i>	2013
	Cargese International PhD School, Cargese, France, May 2013	
	<i>Pulsars and Pulsar Wind Nebulae</i>	2012
	ISAPP International PhD School, Paris, France, July 2012	
<b>SUPERVISING</b>	Supervisor of <u>7 postdoctoral fellows</u> :	
	• Dr. Enrico Peretti	11/2024-
	• Dr. Sarah Recchia	09/2024-
	• Dr. Giada Peron	2023-
	• Dr. Jonatan Martin Rodriguez	2021-2022
	• Dr. Barbara Olmi	2019-2020
	• Dr. Giovanni Morlino	2019-2020
• Dr. Martina Cardillo	2015-2016	
	Coordinator of one <u>Marie Curie</u> fellow (Dr. Yves Gallant)	2013-2014
	Supervisor of one <u>pre-doctoral</u> fellow (Virginia Bresci)	2018-2019
	Supervisor of <u>2 PhD Students</u>	
	• Ben Li, Gran Sasso Science Institute, L’Aquila, Italy	2023–
	• Stefano Menchiari, University of Siena, Italy	2020-2023
	Supervisor of <u>6 undergraduate students</u> in Physics and Astronomy at the University of Florence	2009–

RESEARCH GRANTS AS PI	<p>PRIN MUR 2022 <i>Unveiling the footprints of the cosmic ray journey through the Galaxy and beyond</i></p> <p>PRIN INAF 2019 <i>From massive stars to supernovae and supernova remnants: driving mass, energy and cosmic rays in our Galaxy</i></p> <p>2017-14-H.0 ASI-INAFA - second call <i>On the escape of cosmic rays and their impact on the background plasma</i></p> <p>INAFA - Mainstream Research <i>Understanding Particle Acceleration in Galactic Sources in the CTA era</i></p> <p>2017-14-H.0 ASI-INAFA - first call: <i>A Modern Approach to Cosmic Ray Transport in the Galaxy</i></p> <p>CTA-SKA INAF 2016: <i>Probing particle acceleration and <math>\gamma</math>-ray propagation with CTA and its precursors</i></p> <p>CRACHEN PROGRAM (Scheda INAF) <i>Cosmic Ray Acceleration to the Highest Energies</i> funded by INAF with &gt; 300 keuro in the last 3 years</p>	<p>National PI</p> <p>Research Unit PI</p> <p>National PI</p> <p>National PI</p> <p>Research Unit PI</p> <p>Research Unit PI</p> <p>National PI</p>	<p>2023–</p> <p>2020–2024</p> <p>2019–2023</p> <p>2019–2022</p> <p>2018</p> <p>2017-2020</p> <p>2017–</p>
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<b>LARGE INTERNATIONAL COLLABORATIONS</b>	<a href="#">Plasma Observatory</a> (ESA M7 candidate mission) Science Working on Plasma Astrophysics		2024
	<a href="#">MAGIC</a> associate scientist		2022–
	<a href="#">ASTRI-MiniArray</a> : active member of the Galactic Science Working group since 2017 and of Publication Office since 2020		2017–
	<a href="#">Cherenkov Telescope Array (CTAO)</a> : active member of the Galactic and Cosmic Rays Science Working Groups (SWG) since 2017, <u>deputy-coordinator</u> of the Cosmic Ray SWG in <u>2018-2019</u> , <u>coordinator</u> in <u>2019-2020</u> and <u>coordinator</u> within INAF since 2020		2017–
	<a href="#">ATHENA</a> : member of the Science Working Group on “End points of stellar evolution”		2015–
<b>INTERNATIONAL RESEARCH TEAMS</b>	<a href="#">ISSI team 520</a> : Energy Partition across Collisionless Shocks	member	2022-2023
	Columbia-DIAS-Yale ( <a href="#">CDY</a> ) initiative	associate member	2021–
	<a href="#">PLUS</a> (Plasma in the Laboratory and in the Universe) Collaboration	member	2019–
	<a href="#">EuCAPT</a> (European Consortium for Astroparticle Theory)	member	2019
	<a href="#">ISSI team 351</a> : Galactic Cosmic Ray Origin and Composition	member	2016–2018
	<a href="#">ISSI team 297</a> : Superdiffusive Transport in Space Plasmas and its Influence on Energetic Particle Acceleration and Propagation	member	2013-2015

<b>SCIENTIFIC PANELS AND COMMITTEES</b>	member of <a href="#">IUPAP</a> (International Union for Pure and Applied Physics) commission <a href="#">C4</a> : Astro-particle Physics	2025–
	<u>vice-president</u> of the INAF Computation time and storage allocation committee (CAT&S)	2023–
	member of the Visiting Committee of <a href="#">APC</a> (Laboratoire Astroparticules et Cosmologie- Paris)	2023
	member of <a href="#">ASI</a> (Italian Space Agency) “Extreme Universe roadmap” editorial board	2022–
	member of <a href="#">MAGIC</a> T.A.C.	2022–2023
	member of the <a href="#">Astronet roadmap</a> editorial board	2021–2022
	member of the <a href="#">ISSI</a> (International Space Science Institute, Bern) Scientific Council	2021–
	member of <a href="#">ESO</a> Observing Program Committee Panel D	2020–2021
	member of the ST9 panel (Astrophysics and Space Science) of the Evaluation committee of the Polish Ministry of Research (NCN)	2021
	member of <a href="#">DESY</a> Advisory Committee on Astroparticle Physics	2019–2023
member of INAF CSN4 - National Science Committee for High Energy and Particle Astrophysics	2019–2022	
<b>JURIES FOR SCIENTIFIC PRIZES</b>	member of the Jury awarding the "Enrico Fermi" 2022 prize of the Italian Physics Society (SIF)	2022
	member of the jury awarding the Tacchini Prize of the Italian Astronomical Society for PhD theses in Astronomy	2020
	Member of the committee awarding the Magini prize for laurea theses in Astrophysics	2017

<b>ACADEMIC SELECTION COMMITTEES</b>	member of IAF -INAF Astrophysics fellowship 2022 selection committee	2022–2023
	member of committee for PhD selection at University of Florence	2022
	member of Arcetri fellowship 2021 selection committee	2021
	member of a committee for the award of a Tenure track position at the Univeristy of Florence	2016
	member of more than 15 postdoc selection committees at INAF-Arcetri	2005–
<b>DIPLOMA COMMITTEES</b>	member of 2 french <i>habilitation à diriger des recherches</i> committees at Université Pierre et Marie Curie (Paris) e at Université Grenoble Alpes (Grenoble, France)	2014–
	member of 7 PhD defense Committees (University of Siena, Gran Sasso Science Institute, Université Pierre et Marie Curie (Paris), Université de Montpellier, Sorbonne Université (Paris))	2017–
	member of more than 20 <i>laurea</i> committees at the University of Florence	2009–
<b>REFEREE FOR ACADEMIC POSITIONS AND QUALIFICATIONS</b>	referee for 2 <b>associate professorships</b> (University of Chile and University of Hong Kong)	2018–2024
	referee for a <b>full professorship</b> at Washington University (USA)	2022
	rapporteur for 2 french <i>habilitation à diriger des recherches</i> committees at Université Pierre et Marie Curie (Paris, 2014) e at Université Grenoble Alpes (Grenoble, France, 2021)	2014–
	referee for 6 <b>PhD theses</b> , at Università di Palermo, Università di Bologna, Università di Padova, Sorbonne Université, Université de Montpellier, Université Pierre et Marie Curie	2017–

<b>REFEREE FOR RESEARCH FUNDING AGENCIES</b>	<ul style="list-style-type: none"> <li>–Italian Ministry of Education and Research (actions: FIRB, SIR, PRIN, Montalcini)</li> <li>–Spanish Ministry of Science, Innovation and University</li> <li>–International Space Science Institute - Beijing and Chinese Academy of Science (CAS)</li> <li>–Swedish Research Council</li> <li>–European Science Foundation</li> <li>–Paris Region fellowship Programme (EU co-funded MSCA)</li> <li>–German Research Foundation</li> <li>–UK Science and Technology Facilities Council</li> <li>–Polish National Science Center</li> <li>–Czech Science Foundation</li> <li>–Netherlands Organisation for Scientific Research</li> <li>–U.S. National Science Foundation</li> <li>–French National Research Agency and Institute Pascal</li> <li>–German Israel Foundation</li> <li>–Romanian Ministry of Education</li> </ul>	<p>2013 -</p> <p>2023</p> <p>2022</p> <p>2022</p> <p>2022–</p> <p>2020</p> <p>2020</p> <p>2020 –</p> <p>2019–</p> <p>2019</p> <p>2017</p> <p>2016–</p> <p>2016 –</p> <p>2015</p> <p>2011–2020</p>
<b>REFEREE FOR JOURNALS</b>	Referee for all the main international journals in Physics and Astrophysics: The Astrophysical Journal, The Astrophysical Journal Letters, Astronomy and Astrophysics, Monthly Notices of the Royal Astronomical Society, Space Science Review, Physics of Plasmas, Physical Review Letters, Physical Review D, Journal of Cosmology and Astroparticle Physics, Astroparticle Physics, Physics Today, Reports on Progress in Physics, Science	2001–
<b>GUEST EDITOR</b>	<p>“Unveiling the MeV Universe in the multi-messenger era” Topical collection of <i>Space Science Reviews</i> co-editors: Dr. D. Berge (DESY), Prof. A. Bykov (IOFFE), Prof. A. de Angelis (Università di Padova)</p> <p>“Particle Acceleration and Transport: from the Sun to Extragalactic Sources” Special Issue of the journal <i>New Astronomy</i> co-editor: Dr. S. Perri (UniCal)</p> <p>“Jets and Winds in Pulsar Wind Nebulae, Gamma-ray Bursts and Blazars: Physics of Extreme Energy Release” Topical collection of <i>Space Science Reviews</i> co-editors: Prof. A. Bykov (IOFFE), Prof. J. Arons (Berkeley), Prof. M. Lemoine (IAP, Paris)</p>	<p>2024–</p> <p>2018–2022</p> <p>2017–2018</p>

<b>LOCAL RESPONSIBILITIES</b>	deputy director of INAF-Osservatorio Astrofisico di Arcetri	02/2024–
	coordinator of the High Energy Astrophysics group of INAF-Arcetri	2016–2023
	member of INAF-Arcetri director advisory committee	2016–2023
	coordinator of the joint program in Physics and Astrophysics for High School Students (PCTO)	2018–2022
	Arcetri representative in the Science Committee of <i>Fondazione Scienza e Tecnica di Firenze</i> (owning and managing Florence Palnetarium)	2021–
	management of a 20 k€ private donation for the expansion of the CR outreach facilities at the Arcetri Astrophysical Observatory	2017–
	coordinator of the CR physics outreach program and facilities at the Arcetri Astrophysical Observatory	2016 –
<b>PUBLIC OUTREACH</b>	several lectures and laboratory classes on Cosmic Ray physics and High Energy Astrophysics for students selected by <a href="#">Accademia dei Giovani per la Scienza</a>	2019–
	several lectures and laboratory classes within the programs offered to High School students by INAF-Arcetri: - <i>PCTO in Astronomia</i> - <i>PCTO in Fisica e Astrofisica</i> , joined program with the Physics and Astronomy Department of the University of Florence - <i>Potenziamento di Astronomia nei licei</i>	2013–
	more than 15 public conferences on High Energy Astrophysical sources and phenomena and on the subject of <i>Women in Science</i>	2015 –
	more than 30 astronomy lectures for general public delivered within the Arcetri Observatory outreach program	2015 –
	more than 20 lectures delivered in local schools for students of all ages, from elementary to high school at Arcetri Astrophysical Observatory	2013 –
	more than 60 lectures for students of all ages, from elementary to high school at Arcetri Astrophysical Observatory	2013 –
	continuous participation in specific events and outreach initiatives organized by INAF-Arcetri, both specific for kids and for the general public	2003–

<b>CONFERENCE ORGANIZATION SOC CHAIR (last 10 years)</b>	<b>Service as chair or co-chair of 12 Scientific Organizing Committees (last ten years):</b>	
	–ISSI Workshop “MeV Sky”, Bern, Switzerland, Italy, December 11-15, 2023	2023
	– 38 <sup>th</sup> ICRC (International Cosmic Ray Conference), ISPC-CRD, Nagoya, Japan, 26 July-3 August 2023	2023
	–International School of Physics Enrico Fermi - Course 208: “Foundations of Cosmic Ray Astrophysics”, Varenna, Italy, June 23-29, 2022	2022
	–37 <sup>th</sup> ICRC (International Cosmic Ray Conference), ISPC-CRD, Berlin, Germany, 12-23 July 2021	2021
	– EuCAPT Symposium (European Consortium for Astroparticle Theory), ”High-energy Astroparticle Physics”, CERN, Geneva, Switzerland, May 5-7 2021	2021
	–“High Energy plasma Phenomena in Astrophysics”, extended program at the MIAPP (Munich Institute for Astro- and Particle Physics), July 5-30, 2021 and 2024	2020-
	–“CNOX XI: Congresso Nazionale Oggetti Compatti XI”, Firenze, Italy, 19-21 November 2019	2019
	–“Particle acceleration and transport: from the Sun to Extragalactic Sources”, Università della Calabria, Rende (CS), Italy, November 2018	2018
	–“43 <sup>rd</sup> European Physical Society Conference on Plasma Physics”, Leuven, Belgium, June 2016	2016
	–ISSI workshop on “Jets and Winds in Pulsar Wind Nebulae, Gamma Ray Bursts and Blazars: Physics of Extreme Energy Release”, Bern, Switzerland, November 2015	2015
	–“Astroparticle Physics Conference 2014”, Amsterdam, The Netherlands, June 2014	2014

<p><b>CONFERENCE ORGANIZATION: SOC MEMBER (last 10 years)</b></p>	<p>Service as <b>member of 24 Scientific Organizing Committees</b> (last ten years):</p> <ul style="list-style-type: none"> <li>– Particle Acceleration and Transport: from the Sun to extragalactic sources, Cosenza, Italy, February 3-7, 2025</li> <li>– 3<sup>rd</sup> HONEST (Hot Topics in High Energy Astrophysics) Workshop, on-line meeting, November 26-28, 2024</li> <li>– CNOC XIII: Congresso Nazionale Oggetti Compatti XIII", Alghero, Italy, September 23-26</li> <li>– Gamma 2024, Milan, Italy, September 2-6, 2024</li> <li>– HEPRO VIII, Paris, France, October 23-26, 2023</li> <li>–EAS 2023 - Special Session on "Relativistic Magnetospheres " Krakow, Poland, 10-14 July, 2023</li> <li>–The 1<sup>st</sup> LHAASO Symposium, Chengdu, China, May 29-June 1 2023</li> <li>–2<sup>nd</sup> HONEST (Hot Topics in High Energy Astrophysics) Workshop, on-line meeting, 29 November-1 December, 2022</li> <li>–GAMMA2020, Barcelona, Spain, July 4-8, 2022</li> <li>–HEDLA 2022, Lisboa, Portugal, May 23-27, 2022</li> <li>–1<sup>st</sup> Workshop on Gamma-ray Halos around Pulsars, on-line meeting, 1-3 December, 2020</li> <li>–"36<sup>th</sup> International Cosmic Ray Conference", Madison, Wisconsin, USA, July 30 - August 6, 2019</li> <li>–"Supernova Remnants II: An Odyssey in Space after Stellar death", Crete, Greece, June 3-8, 2019</li> <li>–"Black Holes as Cosmic Batteries: UHECRs and Multi-messenger Astronomy", Iguazu Falls, Brazil, 12-14 September 2018</li> </ul>	<p>2024–</p> <p>2024</p> <p>2024</p> <p>2024</p> <p>2023</p> <p>2023</p> <p>2023</p> <p>2022</p> <p>2020-2022</p> <p>2020-2022</p> <p>2020</p> <p>2019</p> <p>2018</p> <p>2018</p>
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–“HEPRO VI”, Moscow, Russia, September 2017	2017
– “35 <sup>th</sup> International Cosmic Ray Conference”, Bexco, Busan, Korea, July 2017	2017
–“ IAU Symposium: SN 1987A, 30 years later”, La Réunion Island, France. July 20-24	2017
– “Cosmic-Ray Origin Beyond the standard models: second edition”, San Vito di Cadore, Italy, September 2016	2016
–“6 <sup>th</sup> International Symposium on High-Energy $\gamma$ -ray Astronomy”, Heidelberg, July 2016	2016
–“Modeling Pulsar Wind Nebulae”, Barcelona, Spain, June 2016	2016
–“High Energy Phenomena in Relativistic Outflows V”, La Plata, Argentina, October 2015	2015
–“COSPAR meeting 2014”, session E4, Moscow, Russia, August 2014	2014
–“Cosmic-Ray Origin Beyond the standard models”, San Vito di Cadore, Italy, March 2014	2014

**SELECTED  
INVITED  
TALKS**

**More than 30 invited talks** delivered at international workshop and conferences during the last 10 years. A selection of these is listed below

- ▷ “Pulsar Wind Nebulae as Galactic PeVatron Candidates” at *HEASA (High Energy Astrophysics in Southern Africa ) 2024*, Wits Rural Facility, South Africa, Oct. 2-4 2024 2024
  
- ▷ “CTA science perspective on cosmic ray physics” at *2<sup>nd</sup> CTAO Symposium*, Bologna, Italy, April 15-18 2024 2024
  
- ▷ “Pulsar Wind Nebulae and the Crab Nebula” at *20 MAGIC years Conference and Symposium*, La Palma, Spain, October 2-7 2023 2023
  
- ▷ “Particle Accelerators in the Galaxy and MeV Astrophysics” at *Future spaceborn MeV detectors and related astrophysics*, Hefei, China, April 22-27 2023 2023
  
- ▷ “Candidate Pevatrons: Pulsar Wind Nebulae” at *ASTRI-LHAASO Workshop*, Milan, Italy, March 7-8 2023 2023
  
- ▷ “Acceleration of leptons and hadrons in pulsars and in Pulsar Wind Nebulae” at *2<sup>nd</sup> Hot topics in High Energy Astrophysics (HONEST) Workshop - The search for PeVatrons*, online, November 29- December 1 2022 2022
  
- ▷ “Pulsar Wind Nebulae: a review” at *XII Congresso Nazionale Oggetti Compatti - CNOCXII*, Cefalù, Italy, September 27-30 2022 2022
  
- ▷ “Theoretical overview of Pulsars/PWNe/Pulsar Halos” at *LHAASO-MAGIC-LST workshop*, online, September 27-28 2022 2022
  
- ▷ “Cosmic Ray Accelerators in the Galaxy” invited plenary at the *31<sup>st</sup> Texas Symposium on Relativistic Astrophysics*, Prague, 12-16 September 2022 2022
  
- ▷ “Galactic Astrophysical Accelerators: an overview” at *PASTO-Particle Acceleration in aSTrophysical Objects*, Rome, 5-7 September 2022 2022

- ▷ “PeVatron searches in the coming years” at *European Astronomical Society Annual Meeting 2021*, Leiden (virtual meeting) 28 June - 2 July 2021 2021
  
- ▷ “Outlook on Cosmic Ray Physics" at *First EuCAPT Annual Symposium*, CERN- Geneva (virtual meeting), 5-7 May 2021 2021
  
- ▷ “Non-linearities in Galactic Cosmic Ray Acceleration and Transport” at *Max Planck-Princeton Plasma Center Workshop*, Gottingen, Germany, 20-23 January 2020 2020
  
- ▷ “Cosmic ray physics in the CTA era” at *2<sup>nd</sup> Pietro Baracchi Conference*, Firenze, 22-24 October 2019 2019
  
- ▷ “On the origin and transport of Galactic Cosmic Rays” at *105° Congresso Nazionale della SIF (Società Italiana di Fisica)*, L’Aquila, Italy, 23-27 September, 2019, 2019
  
- ▷ “The theory of Pulsar Wind Nebulae: recent progress” at the workshop *High Energy Phenomena in Relativistic Outflows VII (HEPRO VII)*, Barcelona, Spain, 9-12 July, 2019 2019
  
- ▷ “Non-linear self-generated turbulence” at the workshop *Searching for the sources of Galactic cosmic rays*, APC, Paris, France, 11-14 December, 2018 2018
  
- ▷ “On the acceleration and transport of Galactic Cosmic Rays” at *42<sup>nd</sup> COSPAR Scientific Assembly*, Session E1.5, Pasadena, CA, USA, 14-22 July 2018 2018
  
- ▷ “Non-linear diffusive shock acceleration: theory confronts observations” at *42<sup>nd</sup> COSPAR Scientific Assembly*, Session D1.1, Pasadena, CA, USA, 14-22 July 2018 2018
  
- ▷ “Non linear Cosmic Ray transport” at the workshop *CRATER 2018*, Gran Sasso Science Institute, L’Aquila, Italy, 28 may - 1 june, 2018 2018
  
- ▷ “On the mechanisms of particle acceleration in astrophysical sources” at the workshop *Cosmic Rays: the salt of the star formation recipe*, Firenze, Italy, May 2-4, 2018 2018

- ▷ “Origin and propagation of Galactic Cosmic Rays” at *LXII Congresso SAIIt*, Teramo, Italy, May 2-5, 2018 2018
  
- ▷ “On the origin of Galactic Cosmic Rays” at the workshop *Cosmic Accelerators: Understanding Nature’s High-Energy Particles and Radiation*, Annapolis (MD), USA, November 6-9, 2017 2017
  
- ▷ “On the transport of Cosmic Rays throughout the Galaxy” at the workshop *Plasma Astrophysics, from the Laboratory to the Non-Thermal Universe*, Oxford, UK, July 3-5, 2017 2017
  
- ▷ “3D MHD simulations of electron-positron plasmas in PWNe” at *1st JPP Frontiers in Plasma Physics Conference*, Spineto, Italy, May 24-26, 2017 2017
  
- ▷ “Recent Developments on the CR-SNR connection” at *Supernova Remnants: an Odyssey in Space after Stellar Death*, Crete, Greece, June 6-11, 2016 2016
  
- ▷ “The origin of Galactic Cosmic Rays”, at the workshop *Relativistic Laboratory Astrophysics*, Harnack House, Berlin, Germany, November 22-25, 2015 2015
  
- ▷ “Particle Acceleration and Radiation in Pulsar Wind Nebulae” in parallel session of *Frontiers in Fundamental Physics 14*, Marseille, France, July 14-18, 2014 2014
  
- ▷ “Particle Acceleration in Astrophysical Sources” in plenary session of *Frontiers in Fundamental Physics 14*, Marseille, France, July 14-18, 2014 2014
  
- ▷ “The origin of galactic Cosmic Rays” at *BOHEME*, Bologna, Italia, april 7-9 2014 2014

<b>RECENT COLLOQUIA</b>	–University of Maryland	College Park USA, online	10/2024
	–Ruhr Universitat Bochum	Bochum (Germany)	01/2024
	–Hebrew University Jerusalem	online	04/2023
	–INAF - Bologna	online	02/2022
	–CDY initiative	online	02/2022
	– API/GRAPPA	Amsterdam (The Netherlands)	01/2022
	–DESY	Berlin (Germany)	12/2021
	–IRAP	Toulouse (France)	12/2021
	–UniCal	Cosenza (Italy)	01/2021
	–JPP Colloquium	online	09/2020
	–MPIK	Heidelberg (Germany)	05/2019

Firenze, January 7, 2025

Signed

*Elena Amato*