



# Editorial Board Report

## General Meeting July 2024

Update since last LUNA General Meeting on:

- Publications
- Status of Other Papers (by WG)
- Conference/School Talks/Lectures
- Theses, Prizes, Achievements

EB: A. Boeltzig, C. Brogгинi, M. Lugaro, P. Prati

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# Status of Papers (at July 2024)

notification date to EB	reaction(s)	First Author	target journal	provisional title	EB recommendation	Corresponding Author(s)	current status	notes
	Review	Chemseddine	Universe	Detectors and shieldings: past and future at LUNA		Piatti	accepted (2024 May 7th email)	
	$^{20}\text{Ne}(p,g)^{21}\text{Na}$	E. Masha	PRC	First measurement of the low-energy direct capture in $^{20}\text{Ne}(p,\gamma)^{21}\text{Na}$ and improved energy and strength of the $E_c.m.=368\text{keV}$ resonance		A. Caciolli & S. Zavatarelli	published 22.11.23	
	$^{17}\text{O}(p,g)^{18}\text{F}$	R. M. Gesù	PRL	First direct measurement of the 64.5 keV resonance strength in the $^{17}\text{O}(p, \gamma) ^{18}\text{F}$ reaction		D. Piatti	accepted	On June 19th
	$^{13}\text{C}(\alpha,n)^{16}\text{O}$	L. Csedreki	JoP G	Status and future directions for direct cross-section measurements of the $^{13}\text{C}(\alpha,n)^{16}\text{O}$ reaction for astrophysics		L. Csedreki	Revision paper submitted on June 17	basically accepted, minor changes asked
	$^{22}\text{Ne}(p,g)^{23}\text{Na}$	P. Takacs	PRC	Direct capture cross section and resonances in the $^{22}\text{Ne}(p,g)^{23}\text{Na}$ reaction at low energy		D. Piatti	accepted - 2024 May 21th	
	$\text{D}(p, \gamma)^3\text{He}$	K. Stöckel	PRL	Novel approach to infer the $\text{D}(p, \gamma)^3\text{He}$ angular distribution: experimental results and comparison with theoretical calculations		F. Cavanna	submitted 22.02.24	transferred the revised paper to PRC-letters on 14.06.24
not yet received	$^{20}\text{Ne}(p,g)$ and $^{21}\text{Ne}(p,g)$	not defined	EPJA	not defined		F. Cavanna	first draft almost ready	technical paper
not yet received	$^{21}\text{Ne}(p,g)$	not defined	not defined	not defined		F. Cavanna	early preparation stage	physics paper
10.05.2024	CNO	D. Rapagnani	PRC ?	CNO cycle revised, chapter I: the $^{17}\text{O}$ destruction rate in stars	re-focus the topic and reshape the text	O. straniero	internal revision in progress	EB feedback to wg on 01.05.2024

please refer to [Approval Procedures in section 7.2 LUNA Constitution](#) (see gsbox)

- provisional title
- abstract
- targeted journal
- [justifications for choice](#) (akin to Cover Letter for Editor)
  - check acceptance criteria of targeted journal

NOTE: [submitted/revised manuscript](#) and [referees' comments](#) to be circulated to collab. asap

# Invited and Contributed Talks/Posters Conferences & Schools

new procedure since last GM:

invitations to be discussed and agreed by CB

- Nuclear Astrochemistry Workshop, 02/2024 (lecture, F. Ferraro)
- 19th Russbach School on Nuclear Astrophysics, 03/2024 (inv., M. Aliotta; poster, R.M.Gesùè)
- German Physical Society Spring Meeting, 03/2024 (inv. D. Piatti)
- FlipPhysics2024-Women in Physics, 05/2024 (inv., S. Zavatarelli)
- Nuclear Decays and Structure 2024, 05/2024 (contrib., S. Zavatarelli)
- Workshop on Level Density and Gamma Strength, 05/2024 (inv. G. Imbriani, contrib. R.M.Gesùè)
- Summer School on Nuclear Astrophysics, 06/2024 (inv., M. Aliotta)
- JINA Frontiers in Nuclear Astrophysics, 06/2024 (inv. A. Best)
- XIV Torino workshop on AGB stars, 06/2024 (contrib.: D. Rapagnani, A. Best)
  
- Nucleus-Nucleus, 08/2024 (inv., D. Piatti)
  
- NPA-XI, 09/2024
  - Inv.: D. Rapagnani, D. Piatti,
  - Contrib.: A. Caciolli, S. Turkat,
  - Poster: T. Chillery, R.M.Gesùè

New LUNAs

gsbox: LUNA Cloud →

LUNA Organization →

LUNA member.xls

Marianna	Vagnoni	Master student	University of Rome	January 2024	A. Formicola ,A. Best	23Na(p,g)
Giulia	Gosta	Postdoc	University of Milano	1 Feb. 2024	R. Depalo	14N(p,g)15O @ 400 kV
Ranjan	Sariyal	Postdoc	INFN Torino	5 June 2024	F. Cavanna	14N(p,g)15O @ 400 kV
Matteo	Rossi	Postdoc	INFN Genova	01-mag-2024	S. Zavatarelli	

Authorship rules:

- **outgoing members:** up to 2 years after leaving: all papers from active WGs; no publications from WGs started after member left
- **new members:** from 1 year after joining
- **PhD students :** from 6 months after joining
- **Master students:** only papers related to their work

Exceptions on justified grounds need to be approved by the CB

# Theses, Prizes, Other Achievements



# Congratulations to...



recipient		date of conferment	conferring body
Alessandra Guglielmetti	Full professor	1st Jan 2024	UNIMI
Rosanna Depalo	Associate professor	1st May 2024	UNIMI

recipient		date of conferment	conferring body
Riccardo Biasissi	M.Sc.	February 2024	UNIPD
Chemseddine Ananna	Ph.D.	June 2024	UNINA

gsbox: LUNA Cloud → LUNA Organization → LUNA-awards.xls

# Other Roles of LUNA Members

Name	Title	Type	Date	Role
Gianluca Imbriani	NPA-XI 2024 Dresden	Conference	15-20/09/2024	Scientific Advisory Board
Gianluca Imbriani	IRENA network	coordinator of FA1		
Marialuisa Aliotta	IRENA network	coordinator of FA1	since 2022	coordinator of FA1
Marialuisa Aliotta	Gordon Conference 2023, US	conference	June 2023	co-convenor of Nuclear Astrophysics Session
Marialuisa Aliotta	International Symposium on Nuclear Astrophysics, Manipal, India	Symposium	October 2023	International Advisory Committee
Marialuisa Aliotta	X Nuclear Physics in Astrophysics Conference, CERN	Conference	September 2022	International Advisory Committee
Marialuisa Aliotta	Experiment Evaluation Committee, TRIUMF, Vancouver	PAC committee	since 2020	Chair
Marialuisa Aliotta	Atomic and Nuclear Quantum Effects Near Threshold, Edinburgh, UK	workshop	June 2023	co-chair
Marialuisa Aliotta	R-matrix Summer School, Edinburgh, UK	summer school	June 2024	Chair of LOC
Marialuisa Aliotta	European Summer School on Nuclear Astrophysics, Italy	summer school	every two years	Scientific Advisory Board
Marialuisa Aliotta	IoP Medals & Awards	committee	since 2021	committee member
Marialuisa Aliotta	EURO-LABS	network	since 2022	User Selection Panel
Marialuisa Aliotta	Joint Scientific Council GSI/FAIR	committee	since 2021	committee member
Rosanna Depalo	NPA X School	School	29/08 - 3/09/2022	Organizing committee
Rosanna Depalo	INFN 2024	workshop	26 - 28/02/2024	Organizing committee
Rosanna Depalo	19th Russbach school	school	3 - 9/03/2024	International Advisory Committee
Rosanna Depalo	NPA XI School	School	8 - 15/09/2024	Organizing committee
Rosanna Depalo	EURO-LABS	network		Training Scientific Board
Denise Piatti	2nd General Assembly CHETEC-INFRA	workshop	31/5-1/6 2022	LOC and Scientific Board
Denise Piatti	GIANTS XI	workshop	20-22/10/2022	Scientific Board
Denise Piatti	IRENA Nuclear Astrophysics Online Seminar 2023-2024	Seminar cycle	September 2023-June 2024	Organizing committee
Alessandra Guglielmetti	Solar Fusion Cross Section III	workshop	July 2022	Organizing committee
Alessandra Guglielmetti	INPC 2022	Conference	September 2022	IAC member
Alessandra Guglielmetti	V International Conference on Nuclear Structure and Dynamics NSD2024	Conference	May 2024	IAC member
Alba Formicola	Nuclei in the Cosmos	Conference	September 2023	IAC member
Alba Formicola	Nuclei in the Cosmos	Conference	June 2025	IAC member
Alba Formicola	INFN 2024	workshop	26 - 28/02/2024	Organizing committee
Jakub Skowronski	<a href="#">2nd Frontiers in Nuclear Astrophysics Summer School</a>	School	15 - 19 May 2023	Organizing Committee
Daniel Bemmerer	NPA-XI 2024 Dresden	Conference	15-20/09/2024	Chair
Axel Boeltzig	NPA-XI 2024 Dresden	Conference	15-20/09/2024	LOC

# Conferences and Workshops

**September 2 - 6, 2024** Beijing, China **INAC International School and Pre-Symposium of OMEG2024**

<https://indico.impcas.ac.cn/event/60>

**September 8 - 14, 2024** Chengdu, China **17th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG2024)**. <https://indico.impcas.ac.cn/event/54/>

**September 8-15, 2024** Stolpen, Germany **Nuclear Physics in Astrophysics XI School**,

<https://events.hifis.net/e/npa-xi-school>

**September 15-20, 2024** Dresden, Germany **Nuclear Physics in Astrophysics XI** <https://events.hifis.net/e/NPA-XI>

**September 16-22, 2024**. Erice, Sicily/Italy **School/Workshop on Nuclei in the laboratory and in stars**

<https://theorie.ikp.physik.tu-darmstadt.de/erice/2024/>

**October 16-18, 2024** Budapest, Hungary **8th p-process workshop 2024** <https://indico.cern.ch/event/1389227/overview>

**May 25-30, 2025** Daejeon, Korea, **29<sup>th</sup> International Nuclear Physics Conference (INPC 2025)**

**Jun 8 – 13, 2025** Giulianova (TE, Italy) **s, i & r Element Nucleosynthesis (sirEN)** <https://indico.ict.inaf.it/event/2876/>

**June 15-20, 2025** Girona (Spain) **Nuclei in the Cosmos** (the NIC school will be the week before)

For a complete list of events, see: <http://www.nupecc.org/?display=events>