Prof. Dr. Marialuisa Aliotta FRSE | Curriculum Vitae

School of Physics and Astronomy, University of Edinburgh (UK)
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Last update: June 2023

Current Position: Full Professor – Head of Nuclear Physics Group, University of Edinburgh, UK

Professional career:

2021 – present	Head of Nuclear Physics Group, University of Edinburgh, UK
2016 – present	Full Professor, Personal Chair in Experimental Nuclear Astrophysics, UoE
2013 – 2016	Reader, UoE
09.2010 – 01.2011	Maternity leave (5 months)
2008 – 2013	Senior Lecturer, UoE
2001 – 2008	Lecturer, UoE
2001	Marie Curie Individual Post-Doctoral Fellowship, UoE, UK (declined)
1999 – 2001	Alexander von Humboldt Post-doctoral Fellowship, Ruhr-Universität Bochum, Germany
1994 – 1995	Postgraduate Fellowship at the Ruhr-Universität Bochum, Germany

Academic Degrees:

April 1999	PhD in Physics (Summa cum Laude), University of Catania, Italy
March 1993	Degree in Physics (Summa cum Laude), University of Catania, Italy

University Education

1993 – 1994	Undergraduate Fellowship at Laboratori Nazionali del Sud, INFN, Catania, Italy
1990 – 1991	Erasmus Grant at Oxford University, Oxford, UK
1986 – 1992	Undergraduate studies, University of Catania, Italy

Honors and Awards

2022	Fellow of the Royal Society of Edinburgh, UK
2021	IoP/SIF Giuseppe Occhialini Medal and Prize
09.2020 – 07.2021	EMMI Visiting Professorship GSI/Frankfurt University, Germany
2015	Van Heyningen Award for Teaching in Science and Engineering (runner-up), UoE
2008	Offer, W2 Professorship at Technische Universität München (TUM), Germany
07.2015 – 12.2015	Visiting Professorship at the Seconda Università di Napoli, Caserta (Italy)
2004	Professional Certificate in University Teaching, Institute for Learning and Teaching in Higher Education, UK
1995 – 1998	PhD studentship, Università di Catania, Italy

Professional Memberships

2001 – present	Institute of Physics (IoP), UK
2004	Institute for Learning and Teaching (now Higher Education Academy), UK
2001 – 2012	Engineering and Physical Sciences Research Council College, UK

Languages Italian (native speaker), English (fluent), German (fluent), Spanish (good)

RESEARCH INTERESTS AND ACTIVIES

My research focusses on the study of nuclear reactions of astrophysical interest using both stable and radioactive nuclei. Throughout my career I have proposed and led experiments at various international laboratories, including at CERN (Switzerland), GANIL (France) and TRIUMF (Canada), to investigate reactions important for explosive stellar scenarios. Since 2010, my work is mostly devoted to the study of nuclear reactions at ultra-low energies performed at the Laboratory for Underground Nuclear Astrophysics (**LUNA**) at Gran Sasso (Italy). My enthusiasm for my research and my ability to communicate have also gained me several invitations as a plenary speaker at international conferences, summer schools, and public events (see list of invited talks). In 2014, I was invited to join the **Nuclear Physics Advisory Panel** of the **Science and Technology Facilities Council** (STFC) to develop the next UK Nuclear Physics five-year **Roadmap**. I am currently a member of STFC **Nuclear Physics Grants Panel** (since 2020), the **Chair** of the **Nuclear Physics**

Experiment Evaluation Committee at TRIUMF (since 2020), a Member of the **Joint Scientific Council of FAIR/GSI** (since 2022), and the **Head** of the **Edinburgh Nuclear Physics Group** (since 2021).

RESERCH GRANTS

Nuclear physics research in the UK is funded by STFC via Group Consolidated Grants (with the Head of Group as PI). I have been leading the group's activities in low-energy nuclear astrophysics research at LUNA since 2010.

Science and Technology Facilities Council (STFC)
Nuclear Physics Consolidated Group Grants

01.10.21 – 30.09.24:	RA5543 - STFC ST/V001051/1	£1,611,204	(Co-I; PI PJ Woods)
01.10.17 – 30.09.21:	RA4111 - STFC ST/P004008/1	£2,786,904	(Co-I; PI PJ Woods)
01.08.15 – 30.09.18:	RA2927 - STFC ST/L005824/1	£1,265,730	(Co-I; PI PJ Woods)
01.08.11 – 31.07.15:	RA1811 - STFC ST/J00006X/1	£1,584,323	(Co-I; PI PJ Woods)
01.08.08 – 31.07.13:	RA0800 - STFC ST/F011938/1	£1,974,382	(Co-I; PI PJ Woods)
21.06.08 – 20.06.10:	RA0372 - STFC PP/F000839/1	£458,851	(Co-I; PI PJ Woods)

Royal Society
International Exchange Scheme

01.07.13 – 30.06.16:	IE130289	£12,000	(PI: M Aliotta, L Gialanella)

Engineering and Physical Sciences Research Council
Group Grant

01.02.04 – 31.01.08:	R37378 - EPSRC GR/S69160/01	£604,505	(Co-I; PI Prof P Woods)

Other grants and sponsorships

UK Nuclear Physics Summer School	£59,800	(PI: M Aliotta, JF Smith)
SUPA support to NPA VII Conference	£2,000	(PI)
SUPA Distinguished Visiting Scientist	£4,800	(beneficiary: F Strieder, RUB)
QAA Scotland	£10,000	(Co-I; PI S Bates)
Royal Society Conference Grant:	£970	(recipient)
Development Trust Small Project Grant	£ 1,000	(PI)
to stage the play *Copenhagen* with students from the School of Physics and Astronomy		
Alexander von Humboldt sponsorship	€ 4,700	(recipient)
Alexander von Humboldt Fellowship	€ 65,100	(recipient)

RESEARCH SUPERVISION

PhD Students

2023-2027	L Barbieri (2nd supervisor)
2023-2027	D Robb (2nd supervisor)
2017-2019	A Frantzana (1st supervisor)
2016-2020	T Chillery (1st supervisor)
2013-2017	CG Bruno (1st supervisor)
2012-2017	L Morales Gallegos (1st supervisor)
2010-2014	DA Scott (1st supervisor)
2009-2012	K Slaughter (2nd supervisor)
2007-2012	PJC Salter (1st supervisor)
2005-2008	A Josephides (2nd supervisor)

REFEREEING ACTIVITIES

Grants and Fellowship applications

2021	ERC, Horizon2020, EU
2015, 2021	Future Leaders Fellowships, UKRI
2019	Deutsche Forschungsgemeinschaft (DFG), Germany
2014	Danish Council for Independent Research, Denmark
2012-present	STFC Rutherford Fellowships, UK
2012	MIUR, Italy
2011	Helmoltz Gesellschaft, Germany
2010	NSERC, Canada
2007	STFC, UK
2006	EPSRC, UK

Journals

Phys. Rev. Lett., Phys. Rev. C, Nucl. Phys. A, J. Phys. G: Nucl. and Part. Phys., Eur. Phys. J. A, Nucl. Instr. Meth. A
Review Editor of the Editorial Board of Nuclear Physics, a specialty of Frontiers in Physics
Associate Editor for Nuclear Physics, Frontiers

TEACHING EXPERIENCE

Undergraduate teaching

2014-present	Nuclear Astrophysics	(O, CO, L, WL)
2001-2020	Nuclear Physics	(CO, L, WL)
2012-2014	Practical Physics Laboratory	(LS)
2012-2014	Practical Physics Workshops	(O, WL)
2011-2012	Physics 1B Laboratory	(LS)
2008-2010	Data Analysis (for Physics 2A)	(WD)
2004-2008	Physics 1A	(L, WL)
2001-2004	Nuclear Physics 3 (now Subatomic Physics)	(CO, L)
2001-2004	Workshops for Physics 1A	(WL)

Postgraduate teaching

2013-2014	Nuclear Astrophysics with Radioactive Beams (UK)	(O, L)
2010-present	Hands on Writing Workshop (SUPA)	(O, CO, WL)
2006-2008	Advanced Topics in Nuclear Astrophysics (SUPA)	(O, L)

Originator (O), course organizer (CO), lecturer (L), workshop leader (WL), workshop demonstrator (WD), laboratory supervisor (LS)

I love teaching and I am passionate about it. Over the years, I have taken roles of increased responsibility both in teaching and its administration. My teaching activities have exposed me to diverse environments, including large- and small-group lecturing, tutorials and workshops, with different skills required on my part. Elements of innovative learning and teaching embedded in my classes have included: mini-lectures by students, clickers, in-class competitions, video-feedback, and peer assessment of essays. I am regarded as an enthusiastic and highly effective lecturer (my Nuclear Physics course is extremely popular and consistently rates as one of the best courses in the School) and have been nominated for the University of Edinburgh Teaching Awards on many occasions. In 2015, I was nominated as **Best Teacher Overall** and received the **Van Heyningen Award for Teaching in Science and Engineering** (runner up). In 2014, I also proposed, created and run a **new course on Nuclear Astrophysics**, which now typically attracts over 20 students and receives very positive feedback. Following up from the success of my **Hands on Writing workshop** within SUPA, I have been running writing workshops as an external consultant at other universities in Scotland (St Andrews, Dundee, University of West Scotland, Paisley) and overseas (Italy, Germany, US). In 2018, I published a book with CRC Press, Taylor & Francis: **Mastering Academic Writing in the Sciences: A Step-by-Step Guide**. My pedagogic skills are also recognized externally as testified by several invitations to national and international Summer Schools (see *Invited lecturer at national and international summer school*). On teaching-related issues, I have published 3 refereed articles and 1 book chapter to date (see Publication Records).

Undergraduate Student Supervision

MPhys Project Students

2022-2023	K Samoulis
2019-2020	E Goss
2016-2017	A Wylie
2012-2013	C Griffin, M Leary
2010-2011	D Glowa
2009-2010	DA Scott
2004-2005	G Wong

Appointments as External Examiner

PhD Vivas

2018	Simon Lindberg - Chalmers University, Sweden
2016	Lauren Petrie - University of Surrey, UK
2013	Jelena Gajaevic - University of Ljubljiana, Slovenia
2011	Predrag Ujic - GANIL, France
2012	Adam Garry Tuff - University of York, UK

Degree Programmes

2019	Invitation to act as external examiner for the Physics program at University of York (declined)
2012	Invitation to act as external examiner for the Physics and Physics with Nuclear Technology program at University of West Scotland (declined)
2023	Invitation to act as external examiner for the Physics program at University of York (declined)

PROFESSIONAL SERVICE

MEMBERSHIP OF COMMITTEES

University of Edinburgh

2010-2017	**Policies and Resources Committee** of the University Court
2010	**Court Review Group**
2008-2017	**University Court** (Senate Assessor)
2007-present	Academic Senate

College of Science and Engineering

2010-2011	International Strategy Group
2006	Working Group on Flexible Learning

School of Physics and Astronomy

2021-present	**Director of Student Recruitment**
2016-present	**Personal Tutor**
2011-2012	Forward Look Implementation Party
2010	**Convener** of Forward Look Task Force
2009-2012	Post-Graduate Pastoral Interviewer
2009-2010	International Exchange Coordinator
2008	**Selection Panel** for Teaching Development Officer
2007-2011	Elected Member of Teaching Committee
2007	**Convener** of Task Force on Methods and Combinations of Assessment
2007	**Selection Panel** for SUPA Lectureship in Experimental/Computational Biophysics
2007	**Selection Panel** for Teaching Development Officer
2006-2013	Point of contact for female students
2006-2010	SUPA Graduate School Management Committee
2006-2010	**Director of Studies**
2005-2012	Graduate Studies Committee
2005-2011	SUPA Graduate School Representative for Nuclear and Plasma Physics Theme
2005-2007	Post-Graduate Pastoral Interviewer
2005	**Selection Panel** for SUPA Lectureship in Astrobiology
2005	**Selection Panel** for SUPA Lectureship in Nuclear Physics
2005	**Selection Panel** for SUPA Lectureship in Particle Physics Experiment
2005	**Selection Panel** for SUPA Lectureship in Particle Physics Theory
2005	**Selection Panel** for Two-year Lectureship in Astronomy and Astrophysics
2004-2007	**Quality Assurance Officer** for the School of Physics and Astronomy
2002-2013	Recruitment and Publicity
2001-2006	Institute of Physics Nuclear Physics Group

UK and International Memberships, Panels, Commitees

2023	**Interview Panel** for Lectureship in Nuclear Physics, University of Glasgow, UK
2023	**Reviewer**, Senior Lectureship Experimental Nuclear Physics, University of Jyväskylä, Finland
2023	**IAC**, International Symposium on Nuclear Astrophysics at Manipal, India
2023	**Co-convener** of Nuclear Astrophysics session at **Gordon Conference**, US
2022	**Interview Panel** for Lectureship in Nuclear Physics, University of Glasgow, UK
2022	UKRI **Future Leader Fellowships** Interview Panel
2022	**International Advisory Committee** for X Nuclear Physics in Astrophysics Conference, CERN
2022-2024	**Royal Society International Exchanges** Committee, UK
2022-present	**Joint Scientific Council at GSI/FAIR**, Germany
2021-present	**Institute of Physics Awards** – Panel Member, UK
2020-present	**Associate Editor** for Nuclear Physics - Frontiers
2020-present	**Chair** of **Experiment Evaluation Committee for TRIUMF** National Laboratory (Canada)
2019	Deutsche Forschungsgemeinschaft (DFG) **Grant Review** Panel
2019-2022	STFC **Nuclear Physics Group Grants** Panel
2018-present	UKRI **Future Leader Fellowships** Sifting Panel
2016-2020	**Experiment Evaluation Committee for TRIUMF** National Laboratory (Canada)
2015-2016	**Chair** of STFC **Rutherford Fellowship Panel** for Nuclear Physics
2015	**Co-Chair** of VII International Conference **Nuclear Physics in Astrophysics** (York)
2015	International Advisory Board, Nuclear Structure and Dynamics III, Slovenia
2014-2016	STFC Education, Training and Careers Committee
2014-2017	STFC **Nuclear Physics Advisory Panel** Member

2012-2016	STFC Rutherford Fellowships Panel Member
2011	**Director** of the UK Nuclear Physics Summer School (St Andrews)
2010-present	Scientific Committee of the European Summer School on Experimental Nuclear Astrophysics
2010-2013	STFC Project Peer Review Panel
2010-2011	UKISOL Steering Group
2008-2011	**Board of Directors** for the EuroSchool on Exotic Beams
2008	Programme Committee *13th Capture Gamma Ray and Related Topics Symposium* Cologne, Germany
2006	**Organizer** of IoP Half-day Meeting on Nuclear Astrophysics (Edinburgh)
2006	International Advisory Committee ***IX Nuclei in the Cosmos Conference***, CERN Geneva, Switzerland
2005	International Advisory Committee *12th Capture Gamma Ray and Related Topics Conference*, Notre Dame University, US
2004	**Chair** of UK IoP Nuclear Physics Conference, Edinburgh, UK

INVITED TALKS AND LECTURES

International conferences and workshops

2023 African Nuclear Physics Conference, Cape Town, 29 November – 3 December 2023, South Africa (online)
2022 European Nuclear Physics Conference, Santiago de Compostela, 24-28 October 2022, Spain (unable to attend)
2022 International Nuclear Physics Conference, Cape Town, 9-11 September 2022, South Africa (unable to attend)
2022 IoP Nuclear Physics Conference, Surrey, 20-22 April 2022, UK
2021 **Occhialini 2021 Prize and Medal**, Invited Talk at 107° Congresso Società Italiana di Fisica, 13 September 2021, Italy (online)
2021 Keynote Speaker, Physics Days 2021, 24-26 March 2021, Finland (online)
2019 IX International **Nuclear Physics in Astrophysics** Conference, 15-20 September 2019, Frankfurt (Germany)
2019 JINA-CEE Frontiers in Nuclear Astrophysics Conference, 20-22 May 2019, East Lansing (US)
2018 **EuNPC Conference**, Bologna, 2-9 September, Italy
2017 **79th ICFA Seminar**, Ottawa, 6-9 November, Canada
2017 *Nuclear Astrophysics at the Dresden Felsenkeller* Workshop, Dresden, 26-28 June 2017, Germany
2017 VIII Nuclear Physics in Astrophysics Conference, Catania, 18-23 June 2017, Italy
Special Session in celebration of Prof Spitaleri
2017 55th International Winter Meeting on Nuclear Physics, Bormio 23-27 January 2017, Italy
2015 ECOS-LINCE Workshop, Huelva, 8-10 July, Spain (unable to attend)
2014 **EPS Invited Speaker XIII International Conference Nuclei in the Cosmos** Debrecen, 7-11 July, Hungary
2013 XLI International Workshop "Astrophysics and Nuclear Structure", Hirschegg 26 Jan-1 Feb, Austria
2012 X Quark Confinement and the Hadron Spectrum Conference, Garching 8-12 October, Germany
2012 **Zakopane Conference on Nuclear Physics**, Zakopane, 27 August - 2 September, Poland
2012 IUPAP Conference on Few-Body Problems in Physics, 20-25 August, Japan (unable to attend)
2012 International Workshop Canfranc, 21-23 March, Spain (unable to attend)
2011 IoP Nuclear and Particle Physics Divisional Conference, Glasgow, 4-7 April, UK
2011 International Workshop on Underground Accelerator, Gran Sasso, 10-11 February, Italy
2010 International Workshop Dresden, 28-30 April, Germany
2009 CLAUS09: International Workshop in honor of Claus Rolfs, Anacapri, 14-16 May, Italy
2009 Nuclear Astrophysics Opportunities at the Underground Laboratory Canfranc, Barcelona 19-20 Feb, Spain
2008 **FUSION08 International Conference** *New Aspects of Heavy Ion Collisions near the Coulomb barrier*, Chicago 22-26 Sept, US
2008 XXXVI International Workshop *Modern Aspects in Nuclear Structure and Reactions*, Hirschegg 13-19 January, Austria
2007 Laboratori Nazionali del Sud, INFN, Catania, 15-16 February, Italy
2006 **Radioactive Nuclear Beams Conference**, Cortina d'Ampezzo, 5-7 July, Italy
2006 Current Problems in Nuclear Physics and Atomic Energy, Kyev, 29 May-3 June, Ukraine (unable to attend)
2006 XXXIV International Workshop "Astrophysics and Nuclear Structure", Hirschegg 15-21 January, Austria
2005 **FINUSTAR Conference**, Kos 12-17 September, Greece
2004 Nuclear Physics Seminar, Michigan State University, 15 March, USA
2003 NuPECC Town Meeting, Darmstadt 29 January-1 February, Germany
2002 REX-ISOLDE Workshop, CERN Geneva 16-18 December, Switzerland
2001 NAP2001 Symposium, GSI - Darmstadt 3-4 May, Germany
2000 TOURS2000 Symposium on Nuclear Physics IV, Tours 4-7 September, France

Seminars and Public Lectures

2023 Physics Colloquium, University of Mainz, 19 December 2023, Germany
2022 Physics Colloquium, University of Birmingham, 30 March 2022, UK (online)
2021 Physics Colloquium, SFB Workshop, 11 June 2021, Germany (online)
2021 Physics Colloquium, University of Milan, 19 January 2021, Italy (online)
2019 **Science Festival**, 24 October – 4 November, Genova, Italy (in Italian)
2017 BRIDGCE Workshop, Edinburgh, 4-5 September 2017, UK
2016 **Pint of Science**, Three Sisters' Pub Edinburgh, 23 May, UK
2014 **IoP Public Lecture, Open University**, Milton Keynes, 13 May, UK
2013 **IoP Public Lecture**, Newcastle, 13 December, UK
2011 Albert Einstein Institute for Gravitational Waves, Hannover, 8 December, Germany, UK
2011 **Public Lecture, The Rutherford 100th, Rutherford Appleton Laboratory**, 19 May, UK
2010 IoP Workshop in Nuclear Astrophysics, University of York, 8 February, UK
2009 University of Surrey, 8 December, UK
2009 Annual Meeting of the IoP Astroparticle Physics Group, Edinburgh, 8-9 June, UK
2008 University of Birmingham, 17 December, UK
2008 University of Lancaster, 21 November, UK
2008 Royal Observatory of Edinburgh Workshop: Habitability of the Galaxy, 8-10 October, Edinburgh, UK
2008 **Café Scientifique, Film House**, 28 July, Edinburgh, UK
2008 Retirement event in honor of Prof Dame Carole Jordan, Somerville College Oxford, 12 July, UK
2007 Learning & Teaching Forum on Collaborative Learning, UoE, 17 April, UK (event cancelled)
2007 John Adams Institute, University of Oxford, 14 June, UK
2007 National Astronomy Meeting, UCLan Preston, 16-20 April, UK (unable to attend)
2007 Rutherford Appleton Laboratory, CCRLC, Chilton, 25 January, UK (general interest lecture)
2006 BUS2006 Workshop, Boulby, 21-22 October, UK
2006 Astroparticle Conference, 23-24 May, UK
2006 IoP Nuclear Physics Conference, York 19-21 April, UK
2005 SUPA – Nuclear and Plasma Physics Launch Event, Glasgow 7 October, UK
2005 NUSTAR05, University of Guildford, Sussex, January UK (unable to attend)
2003 Nuclear Physics Seminar, University of York, 7 November, UK
2003 IoP Nuclear Physics Conference, Glasgow 9-11 April, UK
2002 Future of Nuclear Astrophysics Meeting, Abingdon 19-20 April, UK

National and international Summer Schools

2024 19th International Workshop on Nuclear Astrophysics, Russbach 3-9 March, Austria (2 lectures)
2019 UK Nuclear Physics Summer School, 5-16 August, St Andrews (2 lectures)
2018 ChETEC Training School, Bucharest 10-20 April, Romania (5 lectures)
2017 9th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 17-24 September, Italy (2 lectures)
2014 11th International Workshop on Nuclear Astrophysics, Russbach 9-15 March, Austria (2 lectures)
2013 7th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 15-27 September, Italy (2 lectures)
2011 6th European Summer School on Experimental Nuclear Astrophysics, S. Tecla 18-27 September, Italy (1 lecture)
2010 7th International Workshop on Nuclear Astrophysics, Russbach 15-19 March, Austria (2 lectures)
2010 Doctoral Training Program at ECT* Trento, 12 April - 13 June, Italy (4 lectures)
2007 XIV UK Nuclear Physics Summer School, Newcastle 29 August - 8 September, UK (3 lectures)
2006 4th International Summer School on Subatomic Physics, Beijing 21-25 August, China (2 lectures)
2004 11th Euro Summer School on Exotic Beams, Guildford 19-27 August, UK (4 lectures)
2003 2nd European Summer School on Experimental Nuclear Astrophysics, S. Tecla 28 Sept.-5 Oct., Italy (2 lectures)
2003 12th UK Postgraduate Nuclear Physics Summer School, St. Andrews 1-14 September, UK (4 lectures)
2002 3rd International Balkan School on Nuclear Physics, Thessaloniki 18-24 September, Greece (2 lectures)
2002 Nuclear Physics Autumn Retreat, Manchester 5-6 September, UK (1 lecture)

PEER-REVIEWED PUBLICATIONS (last update: May 2022)

All my research is conducted at national or international accelerator-based facilities. The nature of the research is such that teams of 15-30 scientists are often involved, and sole-author publications are extremely rare. Typically, the first author is a PhD student who carried out most of the data analysis, or a young post-doc. From my records on the ISI Web of Knowledge, **I have an "h-index" of 34** (last update: October 2023). The papers preceded by an asterisk (*) are those to which I contributed significantly; those with a dollar sign ($) indicate I was the main originator. All articles listed below are in refereed journals. Articles published in Book Series as Conference Proceedings are not included.

1. Horizons: Nuclear Astrophysics in the 2020s and Beyond
   H. Schatz, et al.
   Journal Physics G: Nuclear and Particle Science (2022) submitted

2. *$ *Exploring stars in underground laboratories: Challenges and solutions*
   M. Aliotta, A. Boeltzig, R. Depalo, Gy. Gyürky
   Annual Review of Nuclear and Particle Science (2022) accepted

3. *$ *Direct measurements of the $^{12}C+^{12}C$ reaction cross sections towards astrophysical energies*
   L. Morale-Gallegos, **M. Aliotta**, L. Gialanella, A. Best, C.G. Bruno, T. Davinson, M. De Cesare, A. Di Leva, A. D'Onofrio, J. Duarte, L.R. Gasques, G. Imbriani, G. Porzio, D. Rapagnani, M. Romoli, F. Terrasi
   European Physical Journal A 58 (2022) 65

4. **The status and future of direct nuclear reaction measurements for stellar burning*
   M. Aliotta, R. Buompane, M. Couder, A. Couture, R. deBoer, A. Formicola, L. Gialanella, J. Glorius, G. Imrbiani, M. Junker, C. Langer, A. Lennarz, Y.A. Litvinov, W.-P. Liu, M. Lugaro, C. Matei, Z.P. Meisel, L. Piersanati, R. Reifarth, D. Robertson, A. Simon, O. Straniero, A. Tumino, M. Wiescher, Y. Xu
   Journal of Physics G: Nuclei and Particles 49 (2022) 010501

5. *Direct measurements of the $^{13}C(a,n)^{16}O$ cross section into the s-process Gamow peak*
   G. F. Ciani, L. Csedreki, D. Rapagnani, **M. Aliotta,** et al. (Luna Collaboration)
   Physical Review Letter, 127 (2021) 152701

6. *Low-energy resonances in the $^{18}O(p,\gamma)^{19}F$ reaction*
   F. R. Pantaleo, A. Boeltzig, A. Best, R. Perrino, **M. Aliotta**, J. Balibrea-Correa, F. Barile, D. Bemmerer, C. Broggini, C. G. Bruno, R. Buompane, A. Caciolli, F. Cavanna, T. Chillery, G. F. Ciani, P. Corvisiero, L. Csedreki, T. Davinson, R. J. deBoer, R. Depalo, G. D'Erasmo, A. Di Leva, Z. Elekes, F. Ferraro, E. M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, I. Kochanek, M. Lugaro, E. Masha, R. Menegazzo, V. Mossa, V. Paticchio, D. Piatti, P. Prati, D. Rapagnani, L. Schiavulli, K. Stöckel, O. Straniero, T. Szücs, M. P. Takács, D. Trezzi, M. Wiescher, S. Zavatarelli
   Physical Review C, 104 (2021) 025802

7. *Characterization of the LUNA neutron detector array for the measurement of the $^{13}C(a,n)^{16}O$ reaction*
   L. Csedreki, G.G. Ciani, J. Balibrea-Correa, A. Best, **M. Aliotta,** et al (LUNA Collaboration)
   Nuclear Instruments and Methods A 994 (2021) 165081

8. *$ *The baryon density oft he Universe from an improved rate of deuterium burning*
   V. Mossa, K. Stöckle, F. Cavanna, F. Ferraro, **M. Aliotta,** et al.
   Nature 587 (2020) 210-213

9. **Underground experimental study finds no evidence of low-energy resonance in the $^{6}Li(p,g)^{7}Be$ reaction*
   D. Piatti, T. Chillery, R. Depalo, **M. Aliotta,** et al (LUNA Collaboration)
   Physical Review C 102 (2020) R052802(R)

10. **Setup commissioning for an improved measurement of the $D(p,\gamma)^{3}He$ cross-section at Big Bang Nucleosynthesis energies*
    V. Mossa, K. Stöckel, F. Cavanna, F. Ferraro, **M. Aliotta**, F. Barile, D. Bemmerer, A. Best, A. Boeltzig, , C. Broggini, C.G. Bruno, A. Caciolli, L. Csedreki, T. Chillery, G.F. Ciani, P. Corvisiero, T. Davinson, R Depalo, A. Di Leva, Z. Elekes, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, I. Kochanek, M. Lugaro, L.E. Marcucci, P. Marigo, E. Masha, R. Menegazzo, F.R. Pantaleo, V. Paticchio, R. Perrino, D. Piatti, P. Prati, L. Schiavulli, O. Straniero, T. Szücs, M.P. Takács, D. Trezzi, S. Zavatarelli, and G. Zorzi
    European Physical Journal A 56 (2020) 144

11. *$A new approach to monitor ^{13}C-targets degradation in situ for ^{13}C(α,n)^{16}O cross-section measurements at LUNA*
G.F. Ciani, L. Csedreki, J. Balibrea-Correa, A. Best, **M. Aliotta**, F. Barile, D. Bemmerer, A. Boeltzig, , C. Broggini, C.G. Bruno, A. Caciolli, F. Cavanna, T. Chillery, P. Colombetti, P. Corvisiero, T. Davinson, R Depalo, A. Di Leva, L. Di Paolo, Z. Elekes, F. Ferraro, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, I. Kochanek, M. Lugaro, P. Marigo, E. Masha, R. Menegazzo, V. Mossa, F.R. Pantaleo, V. Paticchio, R. Perrino, D. Piatti, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, T. Szücs, M.P. Takács, F. Terrasi, D. Trezzi, and S. Zavatarelli
European Physical Journal A 56 (2020) 75

12. *High-resolution radioactive beam study of the ^{26}Al(d, p) reaction and measurements of single-particle spectroscopic factors* G. Lotay, P.J. Woods, M. Moukaddam, **M. Aliotta**, G. Christian, B. Davis, T. Davinson, D.T. Doherty, D. Howell, V. Margerin, C. Ruiz
European Physical Journal A 56 (2020) 3

13. *Cross section of the reaction ^{18}O(p,γ)^{19}F at astrophysical energies: the 90 keV resonance and the direct capture component*
A. Best, F.R. Pantaleo, A. Boeltzig, G. Imbriani, **M. Aliotta**, J. Balibrea-Correa, D. Bemmerer, C. Broggini, C.G. Bruno, R. Buompane, A. Caciolli, F. Cavanna, T. Chillery, G.F. Ciani, P. Corvisiero, L. Csedreki, T. Davinson, R.J. deBoer, R Depalo, A. Di Leva, Z. Elekes, F Ferraro, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, M. Junker, I. Kochanek, M. Lugaro, P. Marigo, R. Menegazzo, V. Mossa, V. Paticchio, R. Perrino, D. Piatti, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, F. Strieder, T. Szücs, M.P. Takács, D. Trezzi, M. Wiescher and S. Zavatarelli
Physics Letters B 797 (2019) 134900

14. *Direct measurements of low-energy resonance strengths of the ^{23}Na(p,γ)^{24}Mg reaction for astrophysics*
A. Boeltzig, A. Best, F.R. Pantaleo, G. Imbriani, M. Junker, **M. Aliotta**, J. Balibrea-Correa, D. Bemmerer, C. Broggini, C.G. Bruno, R. Buompane, A. Caciolli, F. Cavanna, T. Chillery, G.F. Ciani, P. Corvisiero, L, Csedreki, T. Davinson, R.J. deBoer, R Depalo, A. Di Leva, Z. Elekes, F Ferraro, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, I. Kochanek, M. Lugaro, P. Marigo, R. Menegazzo, V. Mossa, F. Munnik, V. Paticchio, R. Perrino, D. Piatti, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, F. Strieder, T. Szücs, M.P. Takács, D. Trezzi, M. Wiescher and S. Zavatarelli
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15. *$*Improved astrophysical rate for the ^{18}O(p,α)^{15}N reaction by underground measurements*
C.G. Bruno, **M. Aliotta**, P. Descouvemont, A. Best, T. Davinson, D. Bemmerer, A Boeltzig, C. Broggini, A. Caciolli, F. Cavanna, T. Chillery, G.F. Ciani, P. Corvisiero, R Depalo, A. Di Leva, Z. Elekes, F Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, M. Lugaro, P. Marigo, R. Menegazzo, V. Mossa, F.R. Pantaleo, D. Piatti, P. Prati, K. Stöckel, O. Straniero, F. Strieder, T. Szücs, M.P. Takács, D. Trezzi, and S. Zavatarelli
Physics Letters B 790 (2019) 237

16. *Direct capture cross section and the E_p = 71 and 105 keV resonances in the ^{22}Ne(p,γ)^{23}Na reaction*
F. Ferraro, M.P. Takács, D. Piatti, F. Cavanna, R. Depalo, **M. Aliotta**, D. Bemmerer, A. Best, A Boeltzig, C. Broggini, C.G. Bruno, A. Caciolli, T. Chillery, G.F. Ciani, P. Corvisiero, T. Davinson, G. D'Erasmo, A. Di Leva, Z. Elekes, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, M. Karakas, I. Kochanek, M. Lugaro, P. Marigo, R. Menegazzo, V. Mossa, F.R. Pantaleo, V. Paticchio, R. Perrino, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, T. Szücs, D. Trezzi, and S. Zavatarelli
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M. Romoli, L. Morale-Gallegos, **M. Aliotta**, C.G. Bruno, R. Buompane, A. D'Onofrio, T. Davinson, M. De Cesare, A. Di Leva, P. Di Meo, J. Duarte, L. Gasques, L. Gialanella, G. Imbriani, G. Porzio, D. Rapagnani, A. Vanzanella
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18. *$*$Reduction of deuterium content in carbon targets for ^{12}C+^{12}C reaction studies of astrophysical interest*
L. Morale-Gallegos, **M. Aliotta**, C.G. Bruno, R. Buompane, T. Davinson, M. De Cesare, A. Di Leva, A. D'Onofrio, L.R. Gasques, L. Gialanella, G. Imbriani, G. Porzio, D. Rapagnani, M. Romoli, D. Schuermann, F. Terrasi, and L.Y. Zhang
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19. *Effect of beam energy straggling on resonant yield in thin gas targets: The cases $^{22}Ne(p,\gamma)^{23}Na$ and $^{14}N(p,\gamma)^{15}O$*
D. Bemmerer, F. Cavanna, R. Depalo, **M. Aliotta**, M. Anders, A Boeltzig, C. Broggini, C.G. Bruno, A. Caciolli, P. Corvisiero, L. Csedreki, T. Davinson, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, R. Menegazzo, V. Mossa, F.R. Pantaleo, P. Prati, D.A. Scott, O. Straniero, T. Szücs, M.P. Takács, and D. Trezzi (LUNA collaboration)
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F. Ferraro, M.P. Takács, D. Piatti, V. Mossa, **M. Aliotta**, D. Bemmerer, A. Best, A. Böltzig, C. Broggini, C.G. Bruno, A. Caciolli, F. Cavanna, T. Chillery, G.F. Ciani, P. Corvisiero, L. Csedreki, T. Davinson, R. Depalo, G. D'Erasmo, A. Di Leva, Z. Elekes, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, I. Kochanek, M. Lugaro, L.E. Marcucci, P. Marigo, R. Menegazzo, F. R. Pantaleo, V. Paticchio, R. Perrino, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, T. Szücs, D. Trezzi, and S. Zavatarelli
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A. Böltzig, G. Imbriani, A. Best, M. Junker, **M. Aliotta**, D. Bemmerer, C. Broggini, C.G. Bruno, R. Buompane, A. Caciolli, F. Cavanna, T. Chillery, G.F. Ciani, P. Corvisiero, L. Csedreki, T. Davinson, R.J. deBoer, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, E.M. Fiore, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, I. Kochanek, R. Menegazzo, V. Mossa, F. R. Pantaleo, V. Paticchio, R. Perrino, D. Piatti, P. Prati, L. Schiavulli, K. Stöckel, O. Straniero, F. Strieder, T. Szücs, M.P. Takács, D. Trezzi, M. Wiescher, and S. Zavatarelli
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M. Lugaro, A. Karakas, C.G. Bruno, **M. Aliotta**, L.R. Nittler, D. Bemmerer, A. Best, A. Böltzig, C. Broggini, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, S. Cristallo, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, D.A. Scott, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration)
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D. Trezzi, M. Anders, **M. Aliotta**, A. Bellini, D. Bemmerer, C. Broggini, A. Caciolli, P. Corvisiero, H. Costantini, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, R. Menegazzo, P. Prati, C. Rossi Alvarez, D.A. Scott, E. Somorjai, O. Straniero, T. Szücs,
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O. Straniero, C.G. Bruno, **M. Aliotta**, A. Best, A. Böltzig, D. Bemmerer, C. Broggini, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, S. Cristallo, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, L. Piersanti, P. Prati, E. Somorjai, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration)
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R. Depalo, F. Cavanna, **M. Aliotta**, M. Anders, D. Bemmerer, A. Best, A. Böltzig, C. Broggini, C.G. Bruno, A. Caciolli, G.F. Ciani, P. Corvisiero, T. Davinson, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration)
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27. *[*$] Improved Direct Measurement of the 64.5 keV Resonance in the $^{17}O(p,\alpha)^{14}N$ Reaction at LUNA*
C.G. Bruno, D.A. Scott, **M. Aliotta**, A. Formicola, D. Bemmerer, A. Best, A. Böltzig, C. Broggini, A. Caciolli, F. Cavanna, G.F. Ciani, P. Corvisiero, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, V. Mossa, F. R. Pantaleo, D. Piatti, P. Prati, E. Somorjai, O. Straniero, F. Strieder, T. Szücs, M. P. Takács, D. Trezzi (LUNA Collaboration)
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M. Aliotta, M. Junker, P. Prati, F. Strieder
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G. Gervino, C. Gustavino, D. Trezzi, **M. Aliotta**, M. Anders, A. Boeltzig, D. Bemmerer, A. Best, C. Broggini, C. Bruno, A. Caciolli, F. Cavanna, P. Corvisiero, T. Davinson, R. Depalo, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, A. Guglielmetti, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, D.A. Scott, O. Straniero, T. Szücs, (LUNA Collaboration)
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V. Margerin, G. Lotay, P.J. Woods, **M. Aliotta**, G. Christian, B. Davids, T. Davinson, D.T. Doherty, J. Fallis, D. Howell, O.S. Kirsebom, D.J. Mountford, A. Rojas, C. Ruiz, and J.A. Tostevin
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C.G. Bruno, D.A. Scott, A. Formicola, **M. Aliotta**, T. Davinson, M. Anders, A. Best, D. Bemmerer, C. Broggini, A. Caciolli, F. Cavanna, P. Corvisiero, R. Depalo, A. Di Leva, Z. Elekes, Zs. Fülöp, G. Gervino, C.J. Griffin, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, E. Napolitani, P. Prati, E. Somorjai, O. Straniero, F. Strieder, T. Szücs, and D. Trezzi
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F. Cavanna, R. Depalo, M.-L. Menzel, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, C.G. Bruno, A. Caciolli, P. Corvisiero, T. Davinson, A. Di Leva, Z. Elekes, F. Ferraro, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, R. Menegazzo, P. Prati, C. Rossi Alvarez, D.A. Scott, O. Straniero, F. Strieder, T. Szuecs, and D. Trezzi (LUNA Collaboration)
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34. *First Direct Measurement of the $^{2}H(\alpha,\gamma)^{6}Li$ Cross Section at Big Bang Energies and the Primordial Lithium Problem*
M. Anders, D. Trezzi, R. Menegazzo, **M. Aliotta**, A. Bellini, D. Bemmerer, C. Broggini, A. Caciolli, P. Corvisiero, H. Costantini, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, P. Prati, C. Rossi Alvarez, D.A. Scott, E. Somorjai, O. Straniero, T. Szuecs (LUNA Collaboration)

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A. Di Leva, D.A. Scott, A. Caciolli, A. Formicola, F. Strieder, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, J. Jose', M. Junker, M. Laubenstein, R. Menegazzo, E. Napolitani, P. Prati, V. Rigato, V. Roca, E. Somorjai, C. Salvo, O. Straniero, T. Szuecs, F. Terrasi, and D. Trezzi (LUNA Collaboration)
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M. Anders, D. Trezzi, A. Bellini, **M. Aliotta**, D. Bemmerer, C. Broggini, A. Caciolli, H. Costantini, P. Corvisiero, T. Davinson, Z. Elekes, M. Erhard, A. Formicola, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, M. Junker, A. Lemut, M. Marta, C. Mazzocchi, R. Menegazzo, P. Prati, CR. Alvarez, D. Scott, E. Somorjai, O. Straniero, T. Szuecs
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38. *$^{\$*}$First Direct Measurement of the $^{17}O(p,\gamma)^{18}F$ Reaction Cross Section at Gamow Energies for Classical Novae*
D. Scott, A. Caciolli, A. Di Leva, A. Formicola, **M. Aliotta**, M. Anders, D. Bemmerer, C. Broggini, M. Campeggio, P. Corvisiero, Z. Elekes, Zs. Fülöp, G. Gervino, A. Guglielmetti, C. Gustavino, Gy. Gyürky, G. Imbriani, M. Junker, M. Laubenstein, R. Menegazzo, M. Marta, E. Napolitani, P. Prati, V. Rigato, V. Roca, E. Somorjai, C. Salvo, O. Straniero, F. Strieder, T. Szuecs, F. Terrasi, and D. Trezzi (LUNA Collaboration)
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P.J.C. Salter, **M. Aliotta**, T. Davinson, H. Al Falou, A. Chen, B. Davids, B. Fulton, N. Galinski, D. Howell, G. Lotay, P. Machule, A. StJ. Murphy, C. Ruiz, S. Sjue, M. Taggart, P. Walden, P.J. Woods
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