Curiculum Vitae

Athanasios Psaltis, Ph.D.

Postdoctoral Research Scholar

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Research Interests

nuclear astrophysics • experimental studies with stable and radioactive ion beams • nuclear sensitivity studies • thermonuclear reaction networks • evaluation of thermonuclear reaction rates • radiative capture reactions with recoil separators • charged-particle spectroscopy • in-beam and activation γ -ray spectroscopy

Education

McMaster University • Hamilton, ON, Canada

September 2015 – August 2020

Ph.D. in Physics

Advisor: Prof. Alan Chen

Thesis title: "Radiative alpha capture on ⁷Be with DRAGON at vp-process nucleosynthesis energies" 🔼

National and Kapodistrian University of Athens • Athens, Greece October 2010 – September 2014 B.Sc. in Physics

Advisor: Assoc. Prof. Theodoros Mertzimekis

Minored in astrophysics. Thesis title: "Experimental studies of cross sections and angular distributions of 112 Cd(p,y) 113 In with application in nucleosynthesis"

Research Positions

Triangle Universities Nuclear Laboratory • Durham, NC, USA

January 2023 – Present

Postdoctoral Research Scholar

Currently collaborating with Professors Richard Longland and Christian Iliadis on experimental and

Currently collaborating with Professors Richard Longland and Christian Iliadis on experimental and theoretical nuclear astrophysics. Conducting research in primordial nova nucleosynthesis, performing transfer reaction measurements using the Enge magnetic spectrograph, and contributing to the evaluation of thermonuclear reaction rates.

Technische Universität Darmstadt • Darmstadt, Germany

September 2020 – January 2023

Postdoctoral Researcher

Collaborated with Professor Almudena Arcones on investigating nuclear and astrophysical uncertainties in core-collapse supernovae and neutron star mergers through extensive impact studies using reaction networks.

 $\label{eq:mcMaster University} \bullet \ \ \text{Hamilton, ON, Canada}$

September 2015 – August 2020

Research Assistant

Worked with Prof. Alan Chen, engaging in experiments at prominent nuclear physics facilities globally as a visiting researcher, including TRIUMF, RIKEN, NSCL, Argonne National Laboratory, TUNL, and Maier-Leibnitz-Laboratorium.

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Los Alamos National Laboratory • Los Alamos, NM, USA

May 2019

Visiting Graduate Researcher

Collaborated with Drs. Samuel Jones and Chris Fryer on reaction network calculations for the vp-process with NuGrid. Code development on NuGrid's NuPPN nuclear reaction network to include neutrino reactions.

TRIUMF • Vancouver, BC, Canada

June 2017 - September 2017

Visiting Graduate Researcher

Collaborated with the DRAGON group during the preparation of my Ph.D. thesis project. Additionally, assisted in other experiments conducted by the DRAGON/TUDA group.

National Centre of Scientific Research Demokritos • Athens, Greece November 2013 – March 2014 Undergraduate Researcher

Engaged in research at the Tandem Accelerator Lab of the Institute of Nuclear and Particle Physics for my undergraduate thesis. Additionally, assisted in two additional nuclear astrophysics experiments.

NuSTRAP - University of Athens • Athens, Greece

November 2011 – September 2015

Database Contributor

Completion and upgrade of the Electromagnetic Moment Resources online database. The database is currently hosted by the International Atomic Energy Agency (IAEA) Nuclear Data Services.

Approved User Facility Proposals

- 7. "Measurement of the 20 Ne(α , γ) 24 Mg with DRAGON" Spokespersons: A.A. Chen, A. Lennarz, **A. Psaltis** and C. Ruiz S2417 of TRIUMF EEC 202407S meeting (2024)
- 6. "Measurement of the $^{84}Se(\alpha,xn)$ cross section with MUSIC to constrain neutrino-driven wind nucleosynthesis"

Spokespersons: A. Psaltis

#2114 of the ATLAS PAC (2024)

5. "Determining the Site of Globular Cluster Potassium Enrichment via the 38 Ar(p, γ) 39 K Reaction in Inverse Kinematics"

Spokesperson: C. Marshall, Co-spokespersons: **A. Psaltis** and K. Chipps e21070 of FRIB PAC1 meeting (2021)

4. "Studying neutrino–driven wind nucleosynthesis with MUSIC: Measurement of the $^{93}Sr(\alpha,xn)$ cross section"

Spokespersons: **A. Psaltis** and W.J. Ong

#1923 of the ATLAS PAC (2021)

3. "Studying supernova nucleosynthesis with CRIB: Measurement of the $^{13}N(\alpha,p)^{16}O$ reaction" Spokesperson: A. Psaltis

AVF69 of the 21st Nuclear Physics PAC of RI Beam factory (2020)

- 2. "Studying stellar helium burning with DRAGON: Direct measurement of the $^{18}O(\alpha, \gamma)^{22}Ne$ reaction" Spokespersons: **A. Psaltis**, A.A. Chen, A. Lennarz and M. Williams S1928 of TRIUMF EEC 201906S meeting (2019)
- 1. "Breakout reactions from the pp-chain and the vp-process: Measurement of the 7 Be $(\alpha, \gamma)^{11}$ C reaction rate in inverse kinematics"

Spokespersons: A. Psaltis, A.A. Chen and D.S. Connolly S1692 of TRIUMF EEC 201607S meeting (2016)

Honours & Awards

The Frank Dennee Scholarship – McMaster University	2017, 2019
ComSciCon 2018 – National Science Communication Workshop	2018
Selection to attend the workshop from over 900 applicants.	
International Excellence Award – McMaster University	2018
The Bridge residency program – SciArt Center	2017
Four-month virtual residency program, where artists and scientists are paired to collaborate on a project of their choice.	

Science Communication

ComSciConCAN – Co-founder/ Organizing Committee Member

September 2018 - Present

ComSciCon is a workshop series organized by graduate students, for graduate students, focused on science communication skills. Our goal is to empower future leaders in technical communication to share the results from research in their field with broad and diverse audiences, not just practitioners in their fields. The event started in the US in 2013 and for the first time, it was hosted in Canada in the summer of 2019.

ScienceSeeker – Science news editor

February 2016 - February 2022

Edited in one of the Top 100 Science Blogs on the Web. My role included picking interesting blog posts about Art, Physics, and General Science out of a collection of 2,300 blogs and other science news sources from around the globe every week. Picks can be found on Twitter using the hashtag #SciSeekPicks.

William J. McCallion Planetarium • Hamilton, ON, Canada

November 2015 - August 2020

Producer/Presenter

Production and live presentation of educational shows. Presented to thousands of people, mostly students and the general public. Produced three full-dome interactive public shows:

- "Rust and stardust: The lives of the stars and the origin of the elements" 2016
- "Star Wars: The Science Awakens" 2017
- "The golden dance of death" 2019

Pint of Science • Hamilton, ON, Canada

January 2018 - August 2020

City Coordinator

Pint of Science is a non-profit organization that brings some of the most brilliant scientists to your local pub to discuss their latest research and findings with you. Organization of the event in Hamilton.

Researchers' Night Hamilton • Hamilton, ON, Canada

October 2015 - August 2020

Cooridnator

Researchers' Night is a European-based concept, which gives the public a unique opportunity to interact with scientists in a non-formal way for an evening. Coordination of the invited scientists, setup of the event, and social media coverage.

SciCo • Athens, Greece

September 2015 - April 2019

Science Ambassador

SciCo is the first Non-Profit Science Communication Organization in Greece. Part of the organizing team of the biggest Science Festival in Greece with more than 30,000 visitors every year - Athens Science Festival. Attended trainings on creative writing, creative storytelling, and science communication.

Teaching Experience

Technische Universität Darmstadt • Darmstadt, Germany

September 2021 – February 2022

Teaching Assistant

Consulting students for their research projects (Stellar Structure and Explosive Nucleosynthesis) in the "Nuclear Astrophysics" seminar.

McMaster University • Hamilton, ON, Canada

September 2015 - May 2020

Teaching Assistant

Introduction to experiments, one-on-one lab assistance (\sim 30 students), answering questions, test invigilation as well as marking quizzes, lab reports, and exams.

Classes taught:

- PHYS 1A03: Introductory Physics
- PHYS 1E03: Waves, Electricity and Magnetic Fields
- PHYS 1AA3: Introduction to Modern Physics
- · Astronomy/Origins 2B03: Big Questions
- Arts & Science 2D06: Physics
- iSCI 3A12: Light, the Universe, and Everything (LUE)

Mentoring

- Tali Lansing: Elastic scattering measurements for αOMP (REU summer student 2023)
- Jan Kuske: Nucleosynthesis calculations for the *r*–process (M.Sc./Ph.D. student 2021 present)
- Liam Kroll: Core-Collapse Supernovae simulations using MESA (summer student 2018, 2019) Now graduate student at Dalhousie University (Halifax, NS, Canada)
- Physics & Astronomy Mentor-mentee program (2016 2020)

Professional Service

Symposium Organizer • CAP Computational Advances in Astrophysics and Cosmology May 2024

r-process Experiments Focus Area coordinator team • IReNA December 2022 – Present

Referee • ApJS, PRC, Front. Astron. Space Sci., Universe December 2021 – Present

PI Team • NuGrid Collaboration February 2021 – Present

Member • ELEMENTS March 2022 – January 2023

Member • SFB 1245 September 2020 – January 2023

Committee Member IReNA Online Seminar Series September 2020 – April 2022

Chair since October 2021.

Conference Chair • "Virtual workshop on (α,n) reactions for astrophysics" 14-15 July 2021

Twitter Team • JINA Horizons 30 November – 4 December 2020

Publications

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Journal Publications: 8 first/second author, 24 Nth author Conference Proceedings: 6 first author, 19 Nth author

In the publications noted with a ★, I led the nucleosynthesis calculations

A Journal Publications

- [A032] **A. Psaltis** and F. Montes, *Recent advancements on (α, n) reactions in astrophysical environments*, J. Phys. G: Nucl. Part. Phys., **Invited Topical Review** expected Q3 2024
- [A031] D. Walter *et al.* (including **A. Psaltis**), Signature of 0⁺ excited state and shape coexistence in 94Kr through ⁹³Kr(d, p)⁹⁴Kr reaction, Phys. Lett. B, Submitted (2024)
- [A030] L. Varga *et al.* (including **A. Psaltis**), *Proton-Capture Studies in the ESR Storage Rings:* Measurement of 124 Xe(p, γ) and 124 Xe(p,n) at Improved Sensitivity, Phys. Rev. Lett., Submitted (2023)
- [A029] D. García-Senz et al. (including **A. Psaltis**), Don't forget the electrons: extending moderately-sized nuclear networks for multidimensional hydrodynamic codes, A&A **688**, A218 (2024), © 10.1051/0004-6361/202449863
- [A028] J. J. Marsh et al. (including **A. Psaltis**), The first in-beam reaction measurement at CRYRING@ESR using the CARME array, Eur. Phys. J. A **60**, 95 (2024), 60 10.1140/epja/s10050-024-01318-2
- [A027] **A. Psaltis** et al., Neutrino-Driven Outflows and the Elemental Abundance Patterns of Very Metal-Poor Stars , Astrophys. J, **966**, 11 (2024), (a) 10.3847/1538-4357/ad2dfb *
- [A026] H. Jayatissa et al. (including **A. Psaltis**), Study of the ²²Mg waiting point relevant for x-ray burst nucleosynthesis using a direct measurement of the ²²Mg(α,p)²⁵Al reaction, Phys. Rev. Lett.,**131**, 112701 (2023), ⁽²⁾ 10.1103/PhysRevLett.131.112701
- [A025] J. Kavoor et al. (including **A. Psaltis**), Structure studies of ¹³Be from the ¹²Be(d, p) reaction in inverse kinematics on a solid deuteron target, Phys. Rev. C, **108**, 034601 (2023), ⁶⁰ 10.1103/PhysRevC.108.034601
- [A024] L. Roberti, M. Pignatari, A. Psaltis et al., The γ-process nucleosynthesis in core-collapse supernovae I. A novel analysis of γ-process yields in massive stars, A&A 677, A22 (2023), 10.1051/0004-6361/202346556
- [A023] M. Williams et al. (including **A. Psaltis**), Cross Sections of the ⁸³Rb(p,γ)⁸⁴Sr and ⁸⁴Kr(p,γ)⁸⁵Rb Reactions at Energies Characteristic of the Astrophysical γ Process, Phys. Rev. C, **107** 035803 (2023), ⁶⁹ 10.1103/PhysRevC.107.035803
- [A022] H. Schatz et al. (including **A. Psaltis**), Horizons: Nuclear Astrophysics in the 2020s and Beyond, J. Phys. G: Nucl. Part. Phys. **49**, 110502 (2022), © 10.1088/1361-6471/ac8890 **Major Review**
- [A020] **A. Psaltis** et al., First inverse kinematics measurement of resonances in ⁷Be(α, γ)¹¹C relevant to neutrino–driven wind nucleosynthesis using DRAGON, Phys. Rev. C **106** 045805 (2022), ⁶⁰ 10.1103/PhysRevC.106.045805
- [A019] **A. Psaltis** et al., Direct measurement of resonances in ⁷Be(α, γ)¹¹C relevant to vp–process nucleosynthesis, Phys. Rev. Lett., **129** 162701 (2022), ⁽¹⁾ 10.1103/PhysRevLett.129.162701
- [A018] L. Lombardo et al. (including **A. Psaltis**), Chemical Evolution of R-process Elements in Stars (CERES) I. Stellar parameters and chemical abundances from Na to Zr, A&A **665** A10 (2022), © 10.1051/0004-6361/202243932
- [A017] **A. Psaltis** et al., Constraining nucleosynthesis in neutrino-driven winds: observations, simulations and nuclear physics, Astrophys. J, **935**, 27 (2022) **10.3847/1538-4357/ac7da7**
- [A016] T. Budner *et al.* (including **A. Psaltis**), Constraining the ³⁰P(p, γ)³¹S reaction rate in ONe novae via the weak, low-energy, β-delayed proton decay of ³¹Cl, Phys. Rev. Lett., **128**, 182701 (2022), ⁶⁰ 10.1103/PhysRevLett.128.182701

- [A015] J. Hooker et al. (including **A. Psaltis**), Use of Bayesian Optimization to Understand the Structure of Nuclei, Nucl. Instr. Meth. Phys. Res. B, **512** 6 (2022), ^(a) 10.1016/j.nimb.2021.11.014
- [A014] J. S. Randhawa et al. (including **A. Psaltis**), First direct measurement of ⁵⁹Cu(p, α) ⁵⁶Ni: A step towards constraining the Ni-Cu cycle in the Cosmos, Phys. Rev. C, **104** L042801 (2021), ⁶⁰ 10.1103/PhysRevC.104.L042801
- [A013] M. Witt, **A. Psaltis** *et al.*, *Post-explosion evolution of core-collapse supernovae*, Astrophys. J, **921** 19 (2021),

 10.3847/1538-4357/ac1a6d ★
- [A012] J. Hu et al. (including **A. Psaltis**), Advancement of Photospheric Radius Expansion and Clocked Type-I X-Ray Burst Models with the New ²²Mg(α, p)²⁵Al Reaction Rate Determined at the Gamow Energy, Phys. Rev. Lett., **127**, 172701 (2021), (2021), (2021) (2021
- [A011] M. Holl *et al.* (including **A. Psaltis**), *Proton inelastic scattering reveals deformation in ⁸He*, Phys. Lett. B, **822**, 136710 (2021), 10.1016/j.physletb.2021.136710
- [A010] P. Mohr et al. (including **A. Psaltis**), Astrophysical reaction rates of α -induced reactions for nuclei with $26 \le Z \le 83$ from the new Atomki-V2 α -nucleus potential, At. Data Nucl. Data Tables, **142**, 101453 (2021), \bigcirc 10.1016/j.adt.2021.101453
- [A009] T. N. Szegedi *et al.* (including **A. Psaltis**), *Activation thick target yield measurement of* $^{100}Mo(\alpha, n)^{103}Ru \text{ for studying the weak r-process nucleosynthesis}, Phys. Rev. C,$ **104**, 035804 (2021),

 10.1103/PhysRevC.104.035804 *
- [A008] G. Lotay et al. (including **A. Psaltis**), First direct measurement of an astrophysical p process reaction cross section using a radioactive ion beam, Phys. Rev. Lett., **127**, 112701 (2021), 10.1103/PhysRevLett.127.112701
- [A007] M. Lovely et al. (including **A. Psaltis**), Proton capture on ³⁴S in the astrophysical energy regime of ONe novae, Phys. Rev. C, **103**, 055801 (2021), ⁶⁰ 10.1103/PhysRevC.103.055801
- [A006] **A. Psaltis** et al., Beyond the acceptance limit of DRAGON: the case of the $^6Li(\alpha, \gamma)^{10}B$ reaction, Nucl. Instr. Meth. Phys. Res. A, **987**, 164828 (2021), 6 10.1016/j.nima.2020.164828
- [A005] M. Williams et al. (including **A. Psaltis**), First inverse kinematics study of the ²²Ne(p, γ)²³Na reaction and its role in AGB star and classical nova nucleosynthesis, Phys. Rev. C, **102**, 035801 (2020), ⁶ 10.1103/PhysRevC.102.035801
- [A004] A. Lennarz *et al.* (including **A. Psaltis**), *First inverse kinematics measurement of key resonances in the* ²²Ne(p, γ)²³Na reaction at stellar temperatures, Phys. Lett. B **807**, 135539 (2020), ⁽⁵⁾ 10.1016/j.physletb.2020.135539
- [A003] **A. Psaltis** et al., Cross–section measurements of radiative proton–capture reactions in ¹¹²Cd at energies of astrophysical interest, Phys. Rev. C **99**, 065807 (2019), ⁶⁰
 10.1103/PhysRevC.99.065807
- [A002] A. Khaliel *et al.* (including **A. Psaltis**), *First cross*–*section measurements of the reactions* $^{107,109}Ag(p,\gamma)^{108,110}Cd \text{ at energies relevant to the p process, Phys. Rev. C$ **96**, 035806 (2017), Φ
 10.1103/PhysRevC.96.035806 –*Academy of Athens award on Experimental Physics*
- [A001] T.J. Mertzimekis, K.Stamou and A. Psaltis, An online database of nuclear electromagnetic moments, Nucl. Instr. Meth. Phys. Res. A, 807, 56 (2016), @ 10.1016/j.nima.2015.10.096

B Conference Proceedings (Peer–Reviewed)

- [B023] **A. Psaltis** *et al.*, Using (α,xn) reaction rates and abundance ratios to constrain the weak r-process, J. Phys.: Conf. Ser. **2586** 012105 (2023), ^(a) 10.1088/1742-6596/2586/1/012105
- [B022] P. Adsley et al. (including **A. Psaltis**), Understanding globular cluster abundances through nuclear reactions, J. Phys.: Conf. Ser. **012100** 012105 (2023), 40 10.1088/1742-6596/2586/1/012100

- [B021] J. Glorius et al. (including **A. Psaltis**), Storage, accumulation and deceleration of secondary beams for nuclear astrophysics, Nucl Instrum Methods Phys Res B **541**, 190 (2023), (a) 10.1016/j.nimb.2023.04.059
- [B020] N. Vukman *et al.* (including **A. Psaltis**), *Helium Clustering in Neutron-rich Be Isotopes*, Acta Phys Pol B Proc Suppl **16**, 4-A34 (2023), 60 10.5506/aphyspolbsupp.16.4-a34
- [B018] S.F. Dellmann *et al.* (including **A. Psaltis**), *Proton capture on stored radioactive 118Te ions*, EPJ Web of Conferences **279** 11018 (2023), 10.1051/epjconf/202327911018
- [B017] **A. Psaltis** *et al.*, Constraining nucleosythesis in neutrino-driven winds using the impact of (α,xn) reaction rates, EPJ Web of Conferences **279**, 08002 (2023), (Φ) 10.1051/epjconf/202327908002
- [B016] H. Yamaguchi et al. (including **A. Psaltis**), RIB induced reactions: Studying astrophysical reactions with low-energy RI beam at CRIB, EPJ Web of Conferences **275**, 01015 (2023), 10.1051/epjconf/202327501015
- [B015] T. Wheeler *et al.* (including **A. Psaltis**), *Measuring the* ¹⁵O(α, γ)¹⁹Ne Reaction in Type I X-ray Bursts using the GADGET II TPC: Hardware, EPJ Web of Conferences **260**, 11046 (2022), ⁽⁵⁾ 10.1051/epjconf/202226011046
- [B014] R. Mahajan *et al.* (including **A. Psaltis**), *Measuring the* ¹⁵O(α, γ)¹⁹Ne Reaction in Type I X-ray Bursts using the GADGET II TPC: Software, EPJ Web of Conferences **260**, 11034 (2022), ⁶⁰ 10.1051/epjconf/202226011034
- [B013] **A. Psaltis** *et al.*, *Exploring the uncertainties of* (α, xn) reactions for the weak r-process, EPJ Web of Conferences **260**, 07003 (2022), Φ 10.1051/epjconf/202226007003
- [B012] J. Hu et al. (including **A. Psaltis**), First measurement of ²⁵Al+p resonant scattering relevant to the astrophysical reaction ²²Mg(α, p)²⁵Al , EPJ Web of Conferences **260**, 05001 (2022), ⁶⁰
 10.1051/epjconf/202226005001
- [B011] H. Yamaguchi et al. (including **A. Psaltis**), Experimental studies on astrophysical reactions at the low- energy RI beam separator CRIB, EPJ Web of Conferences **260** 03003 (2022), 10.1051/epjconf/202226003003
- [B010] J. Liang et al. (including **A. Psaltis**), Spectroscopic Study of ³⁹Ca for Endpoint Nucleosynthesis in Classical Novae, J. Phys.: Conf. Ser. **1668** 012025 (2020), 10.1088/1742-6596/1668/1/012025
- [B009] **A. Psaltis** et al., Study of the 7 Be $(\alpha, \gamma)^{11}$ C reaction with DRAGON for vp–process nucleosynthesis, J. Phys.: Conf. Ser. **1668**, 012035 (2020), 0 10.1088/1742-6596/1668/1/012035
- [B008] H. Shimizu *et al.* (including **A. Psaltis**), *Study on* ^{26m}*Al*(*p*, *γ*) *Reaction at the SNe Temperature*, JPS Conf. Proc. **31**, 011073 (2020), ⁶⁰ 10.7566/JPSCP.31.011073
- [B007] **A. Psaltis** et al., Radiative alpha capture on ⁷Be with DRAGON at energies relevant to the *vp-process*, Springer Proceedings in Physics NIC XV (2018), 425-428, ⁶
 10.1007/978-3-030-13876-9 81
- [B006] **A. Psaltis** *et al.*, *First radiative proton–capture cross–section measurements in mid–weight nuclei relevant to the <i>p*–process, Springer Proceedings in Physics NIC XV (2018), 421-424, 10.1007/978-3-030-13876-9_80
- [B005] J. Liang et al. (including **A. Psaltis**), Spectroscopic study on ³⁹Ca using the ⁴⁰K(d,t)³⁹Ca reaction for classical nova endpoint nucleosynthesis, Springer Proceedings in Physics NIC XV (2018), 397-400, ⁴⁰ 10.1007/978-3-030-13876-9 74
- [B004] H. Shimizu et al. (including **A. Psaltis**), Isomeric ²⁶Al beam production with CRIB, EPJ Web of Conferences **184**, 02013 (2018), ⁶⁰ 10.1051/epjconf/201818402013

- [B002] D. Kahl *et al.* (including **A. Psaltis**), *Impact of the* ^{26m}Al(p,γ) reaction to galactic ²⁶Al yield, AIP Conference Proceedings **1947**, 020003 (2018), ⁶ 10.1063/1.5030807
- [B001] D. Kahl et al. (including **A. Psaltis**), Isomer beam elastic scattering: ^{26m}Al(p,p) for Astrophysics, EPJ Web of Conferences **165**, 01030 (2017), ⁶⁰ 10.1051/epiconf/201716501030

C Conference Proceedings (Non-Peer-Reviewed)

- [C002] A. Khaliel et al. (including **A. Psaltis**), Experimental Investigation of radiative proton-capture reactions relevant to Nucleosynthesis, HNPS2016 Proceedings, @ 10.12681/hnps.1861
- [C001] E. Batziou et al. (including **A. Psaltis**), Modeling radiative proton–capture reactions in mid–heavy nuclei, HNPS2015 Proceedings, @ 10.12681/hnps.1893

D Books

- [D003] Galactic and Stellar Physics by A.G.W. Cameron, Based on a course lecture given at Yale University 1964-1965, Compiled by W.D. Arnett, C.J. Hansen and J.W. Truran, re-typeset in LaTeX by D. Kahl, A. Psaltis, J. Liang and S. Malek (in preparation)
- [D002] Physics of the Solar System by A.G.W. Cameron, Based on a course lecture given at Yale University 1963-1964, Compiled by W.D. Arnett, C.J. Hansen and J.W. Truran, re-typeset in LaTeX by D. Kahl, A. Psaltis, J. Liang and S. Malek (in preparation)
- [D001] Nuclear Astrophysics by A.G.W. Cameron, Based on a course lecture given at Yale University 1962-1963, Assisted by W.D. Arnett, C.J. Hansen and J.W. Truran, re-typeset in LaTeX by D. Kahl, A. Psaltis, J. Liang and S. Malek (in preparation)

E Other Publications

Academic Presentations

Invited presentations: 12 • Contributed presentations: 26

Nuclear Physics in Astrophysics XI – oral (Dresden, Germany) September	r 2024
University of Edinburgh colloquium – invited oral (Edinburgh, UK) July	2024
ATOMKI Seminar – invited oral (Debrecen, Hungary) January	2024
XVII Nuclei in the Cosmos – oral & poster (Daejeon, South Korea) September	r 2023
Science Summit at the 79th UN General Assembly – invited oral (New York, NY) September	r 2023
BRIDCE-IReNA Annual Meeting – invited oral (Edinburgh, UK) September	r 2023
Gordon Research Conference in Nuclear Chemistry – invited oral (New London, NH USA) June	2023
Texas A&M Cyclotron colloquium – invited oral (College Station, TX USA) April	l 2023
Nuclear Lunch Webinar – invited oral (Athens, Greece) December	r 2022

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Origin of Matter and Evolution of Galaxies (OMEG16) – oral (Virtually)	October 2022	
28th International Nuclear Physics Conference – oral (Cape Town, South Africa)	September 2022	
Nuclear Physics in Astrophysics X – oral (Geneva, Switzerland)	September 2022	
FRIB Theory Seminar – invited oral (East Lansing, MI, USA)	June 2022	
2022 JINA-CEE Frontiers in Nuclear Astrophysics – poster (South Bend, IN, USA)	May 2022	
ELEMENTS Annual Conference 2022 – oral (Frankfurt, Germany)	May 2022	
ELEMENTS Kick-off WA3 workshop – invited oral (Virtually)	February 2022	
Advisory Committee On TRIUMF (ACOT) meeting – invited poster (Virtually)	November 2021	
28th Symposium of the Hellenic Nuclear Physics Society – oral (Athens, Greece)	September 2021	
XVI Nuclei in the Cosmos – oral & poster (Virtually)	September 2021	
DPG Matter and Cosmos Section – oral (Virtually)	August 2021	
TRIUMF Science Week – poster (Virtually)	August 2021	
2021 CAP Virtual Congress – oral (Virtually)	June 2021	
IKP Seminar – invited oral (Darmstadt, Germany)	August 2020	
Advisory Committee On TRIUMF meeting – invited oral (Vancouver, BC, Canada)	November 2019	
7th p-process workshop 2019 - oral (Serralunga d' Alba, Italy)	September 2019	
Nuclear Physics in Astrophysics IX – oral (Mainz, Germany)	September 2019	
CNLS Astrophysics Friday Meeting – invited oral (Los Alamos, NM, USA)	May 2019	
5th Joint Meeting of the APS DNP and the PSJ – oral (Waikoloa, HI, USA)	October 2018	
15th International Symposium on Nuclei in the Cosmos – posters (Assergi, Italy)	June 2018	
15th Russbach School on Nuclear Astrophysics – oral (Russbach, Austria)	March 2018	
Nuclear Astrophysics at Rings and Recoil Separators Workshop – oral (Darmstadt, Germany) March 2018		
TRIUMF Science Week – poster (Vancouver, BC, Canada)	July 2017	
2017 JINA-CEE Frontiers in Nuclear Astrophysics – oral (Lansing, MI, USA)	February 2017	
McMaster Physics & Astronomy Symposium Day – oral (Hamilton, ON, Canada)	October 2016	
École Joliot-Curie: "Origin of Nuclei in the Universe" – poster (Le Barcarès, France)	September 2016	
p-process Workshop 2015: Status and Outlook – oral (Limassol, Cyprus)	June 2015	
24th Symposium of the Hellenic Nuclear Physics Society – poster (Ioannina, Greece)	May 2015	
$23 th \ Symposium \ of \ the \ Hellenic \ Nuclear \ Physics \ Society-oral \ \ (Thessaloniki, \ Greece)$	June 2014	
Charged Particle Optics: Theory and Simulation (CPOTS 2013) – oral (Heraklion, Gree	ce) August 2013	
21st Symposium of the Hellenic Nuclear Physics Society – poster (Athens, Greece)	May 2012	