

Astrophysics with Radioactive Isotopes

Monday 13 June 2022

Morning session 1: in person talks (09:00 - 11:00)

-Conveners: Benjamin Wehmeyer

time	[id] title	presenter
09:00	[92] A short history of gamma-ray line astrophysics	PRANTZOS, Nikos
09:30	[93] Pathways of metal flows in the Milky Way as traced by ^{26}Al	KRAUSE, Martin
09:50	[101] Radioactive isotopes as tracers for the origin of micrometeorites	FEIGE, Jenny
10:10	[102] Short-lived radioactive isotopes from massive binary stars and the early Solar System	BRINKMAN, Hannah
10:30	[103] A detailed look at the production of Fe-group elements in core-collapse supernovae	FROHLICH, Carla

Tuesday 14 June 2022

Morning session 1: in person talks (09:00 - 11:00)

-Conveners: Jenny Feige

time	[id] title	presenter
09:00	[120] The Emerging Theory of Three-Dimensional Core-Collapse Supernova Explosions	BURROWS , Adam
09:30	[121] The radiogenic heating of planets and the 40K question	PERDIKAKIS, Georgios
10:00	[122] On the discrepancy between the observed and predicted abundances of the radioactive isotope ${}^7\text{Be}$ produced in nova explosions	DENISSEKOV, Pavel
10:20	[123] Galactic evolution of radio- and rock-forming nuclides and their expression in terrestrial exoplanet geodynamics	MOJZSIS, Steve
10:50	[124] Chemical abundance study on a large set of P-rich stars	BRAUNER, Maren

Wednesday 15 June 2022

Morning session 1: online talks (09:30 - 11:00)

-Conveners: Carla Frohlich

time	[id] title	presenter
09:30	[139] Cosmic radioactivity probing the epoch of SN or merger nucleosynthesis and neutrino interactions	KAJINO, Toshitaka
10:00	[140] New ^{59}Fe Stellar Decay Rate and its Implications for the ^{60}Fe Radioactivity in Massive Stars	GAO, Bingshui
10:20	[146] Constraining r-process nucleosynthesis using ^{129}I and ^{247}Cm in the early Solar system	BANERJEE, Projjwal
10:40	[142] Deep underground laboratory measurement of $^{13}\text{C}(\alpha,n)^{16}\text{O}$ in the Gamow windows of the s- and i-processes	LIN, Weiping

Thursday 16 June 2022

Morning session 1: in person talks (09:50 - 11:00)

-Conveners: Anton Wallner

time	[id] title	presenter
09:50	[158] The $^{39,41,42}\text{Ar}$ nuclides as probes of neutron-induced reactions in a high-density plasma at the National Ignition Facility: a proposed experiment and calibration measurements	PAUL, Michael
10:10	[159] Dating supernova grain formation using radioactive isotopes	OTT, Ulrich
10:20	[170] Barium stars classification with s-process models using machine learning techniques	DEN HARTOGH, Jacqueline
10:30	[160] Astrophysical properties for the $^{197}\text{Au}(a,n)^{200}\text{Tl}$ reaction in the energy range of 10-40 MeV	OZSOY, Cengiz
10:40	[161] Measurement of (d, p) and (d, ^3He) reactions with ^7Be in the context of lithium abundance anomaly	ALI, Mustak