Day 2 – Tuesday 9th September

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	Session 4	
09:10	Grigory Rogachev: Clustering in atomic nuclei and its role in nucleosynthesis processes	Chair: Sandrine Courtin Helpers: Caroline da Costa Seabra, Tom Perissinotto
09:40	Takashi Nakatsukasa: Structure of light clusters in nuclei	
10:00	Marco Mazzocco: Reaction dynamics studies at near-barrier energies and the upgrade of the RIB Facility EXOTIC at INFN-LNL	
10:20	Lachlan McKie: Towards improving spatial and energy resolution in gaseous detectors with negative ion drift	
10:40	Group Photo - Auditorium	
10:45	MORNING TEA	
	Session 5	
11:00	Magdalena Gorska: Probing nuclear structure with DESPEC at GSI/FAIR	
11:30	Filip Kondev: Beta decay spectroscopy of neutron-rich nuclei in the A=100 and 160 regions and the validity of the Nilsson model*	Chair: Tim Gray
11:50	Wolfram Korten: Recent results on the nuclear two-photon decay	Helpers:
12:10	Pete Jones: Portable African Neutron-Gamma Laboratory for innovative nuclear science	Abhijith Gopakumar, Sophie Hayles
12:30	Sponsor presentation - Scitek	
12:35	LUNCH	
	Session 6	
13:30	David Hinde: Shell-driven fission across the nuclear chart	
13:50	Cedric Simenel: Extraction of fission mode properties from fragment mass distributions	Chair: Manuel Caamano
14:10	Prasad E Nair: Exploring nuclear dissipation in fission via pre-scission neutron multiplicity measurements	Helpers:
14:30	Punit Dubey: To investigate the impact of shell closure on N/Z of ²⁰⁶⁻²¹⁶ Rn* using neutron multiplicity as a probe	Rikako Kono, Vaishnavi Muddam
14:50	Lu Guo: Fusion and quasifission dynamics in SHE	
15:10	AFTERNOON TEA	
	Session 7	
15:40	Timothy Barrows: From stars to rocks: Contributions of the 14UD heavy ion accelerators to the Earth sciences	
16:00	Simon Mullins : Elucidating the flood history and age-depth profile of the Okavango Delta with accelerator mass spectrometry	Chair: Karin Hain
16:20	Robert Renz Marcelo Gregorio : Molecular sieve vacuum swing adsorption purification for gaseous dark matter detectors	Helpers: Daniel Lee, Zoe Crowley-Burrows
16:40	Keith Fifield: Gas ionisation detectors: they're smarter than you think	
18:00	Early Career Researchers (ECR) event – Kingpin Canberra	





Day 3 – Wednesday 10th September

	Session 8	
09:10	Manuel Caamano: Recent steps and perspectives on quasi-fission studies with the VAMOS variable-mode spectrometer at GANIL (France)	Chair: Lu Guo Helpers: Jack Woodside, Sharon Goh
09:40	Emanuele Vardaci: Multinucleon transfer studies with a kinematic TOF method	
10:00	Roderick Clark: Spectroscopy of transfermium nuclei	
10:20	Jacob Buete: Direct observation of sequential fission in superheavy element synthesis reactions	
10:40	MORNING TEA	
Session 9		
11:00	Laura Manenti: Mapping Sydney's environmental radioactivity	Chair: Michaela B Froehlich Helpers: Aditya Singh Tejas, Tony Tran
11:30	Karin Hain: Production and characterisation of an isotopic spike for the analysis of environmental ²³⁷ Np by (A)MS	
12:00	Madison Williams-Hoffman: Distinct Pu and U isotopic fingerprint in the marine environment	
12:20	Michael Hotchkis : Application of high-sensitivity actinides AMS to nuclear safeguards	
12:40	Jingyi Shi: Heavy-ion irradiation for rapid evaluation of in-pile nuclear fuel behavior	
13:00	LUNCH	
14:00	Excursions	

Day 4 – Thursday 11th September

	Session 10	
09:10	Kazuyuki Sekizawa : Time-dependent microscopic approaches for low-energy heavy-ion reactions: recent progress	Chair: Emanuele Vardaci Helpers: Aditya Babu, Maggie Webber
09:40	Giulia Colucci: Dissipation on the quasielastic barrier distributions of ²⁰ Ne+ ^{92,94,95} Mo: the role of transfer channels	
10:00	Niels Landsman: The past, present, and future of multinucleon transfer research using in-flight separator RITU	
10:20	Varinderjit Kaur: Contribution of nuclear potential in isobaric pair fragmentation	
10:40	MORNING TEA	
Session 11		
11:00	Alex Gade: In-beam gamma-ray spectroscopy with fast beams of rare isotopes	Chair: Filip Kondev Helpers: Victoria Bashu, Luke Johnstone
11:30	John Smith: Probing the high Z limit of octupole correlations in the light-actinide region	
11:50	Dhananjaya Sahoo: Evolution of nuclear structure in light Ac isotopes	
12:10	Takuhiro Asozu: Practical beam separation techniques for ions with similar A/q ratios at JAEA Tokai Tandem Accelerator	
12:30	LUNCH	





	Session 12	
13:30	Markus Schiffer: Cologne AMS in transition: new tools for old nuclides	Chair: Keith Fifield
14:00	Yunchong Fu: Status report of the 3MV AMS facility at the Xi'an AMS Center	
14:20	Greg Lane: Overview of activities at the Department of Nuclear Physics and Accelerator Applications	Helpers: Caroline da Costa Seabra,
14:40	Akashrup Banerjee: FRENA: A New low-energy tandem accelerator for nuclear astrophysics in India	Tom Perissinotto
15:00	AFTERNOON TEA	
	Session 13	
15:30	Sandrine Courtin: The ¹² C+ ¹² C fusion reaction at astrophysical energies	Chair: Marco La Cognata
16:00	Guy Lekenby: Surrogate reactions in the Experimental Storage Ring	Helpers: Abhijith Gopakumar,
16:30	Leandro Gasques: Probing reaction dynamics in ^{12,13} C+ ¹¹⁹ Sn collisions	Sophie Hayles
19:00	Conference Dinner – The Shine Dome	

Day 5 – Friday 12th September

	Session 14	
09:30	Tim Gray: Exploring nuclear structure near ¹⁰⁰ Sn with neutron knockout reactions	Chair: Wolfram Korten
10:00	Andrew Ratkiewicz: Surrogate experiments in normal and inverse kinematics	
10:20	Oleg Tarasov: Fragmentation of ⁸² Se: discovering new isotopes and exploring their production	Helpers: Rikako Kono,
10:40	Roberto Linares: Nucleon-nucleon correlations in transfer reactions induced by heavy ions	Daniel Lee
11:00	MORNING TEA	
	Session 15	
11:30	Student prize talk 1	Chair:
11:50	Student prize talk 2	Stefan Pavetich Helpers: Sharon Goh, Zoe Crowley-Burrows
12:10	Student prize talk 3	
12:30	Closing remarks	
12:30	LUNCH	

Time indicators

Invited talk: 30 minutes (25 min + 5 Q&A) Contributed talk: 20 minutes (17 min + 3 Q&A)

Pitch you Poster presentations: 5 min

Online Speaker Information & Program



Wi Fi

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HIAS 2025 Program

Day 1 – Monday 8th September

9:30	Arrival and morning tea – foyer, level 3, building 160 Mills Road	
10:30	Welcome to Country and opening addresses	Chair: Kaitlin Cook Helper: Misty Lakelin
	Session 1	
10:30	Dominik Koll: Radionuclides in ferromanganese crusts - applications for astrophysics, environmental science and dating	Chair: Mahananda Dasgupta Helpers: Aditya Babu, Maggie Webber
11:00	Benjamin Kay: Single-neutron excitations outside of ¹³² Sn	
11:30	Marco La Cognata: The 27 Al(p, α) 24 Mg and 27 Al(p, γ) 28 Si reactions at astrophysical energies: first time observation of the 84 keV resonance	
11:50	Michaela B Froehlich: Quantifying lead-210: An impurity in particle detectors for dark matter studies	
12:10	Raghda Abdel Khaleq: Impact of shell model interactions on nuclear responses to WiMP elastic scattering	
12:30	Sponsor presentation – Heavy Ion Accelerators	
12:35	LUNCH	
	Session 2	
13:30	Pitch your poster presentations	Chair: AJ Mitchell Helper: Sandra Saji
15:00	AFTERNOON TEA	
	Session 3	
15:30	Eva Bezak: The new age of theranostic medicine – opportunities and challenges	Chair: Laura Manenti Helpers: Victoria Bashu, Luke Johnstone
16:00	Taiki Tanaka: Next-generation medical radio isotope production with inverse kinematics fusion reactions: on-line nuclear medicine treatment without chemical separation	
16:20	Adam Steinberg: Enabling the future of charged particle therapy at the Melbourne Pelletron	
16:40	Patrick Regan : The importance of nuclear standards. Nuclear metrology for research, applications and impact	
17:00	Welcome BBQ & Poster session (Nuclear Physics, building 57 Garran Road)	
17:45	HIAF tour – HIAF building	



