



# 14th International Conference on Nucleus-Nucleus Collisions (NN2024)

## Monday, 19 August 2024

### Nuclear Astrophysics: NA 1 - Garibaldi B (14:40 - 16:10)

-Conveners: Barry Davids

time	[id] title	presenter
14:40	[271] (Zoom) JENSA: Past, Present, and Future	CHIPPS, Kelly
15:05	[73] Nuclear Astrophysics with TPCs and Gamma-Beams	GAI, Moshe
15:20	[100] Radiative $\alpha$ Capture on $^{12}\text{C}$ in Cluster Effective Field Theory	ANDO, Shung-Ichi
15:35	[84] (Zoom) Study of $\nu$ p- $\nu$ Process Nucleosynthesis in Core Collapse Supernovae via $^{56}\text{Ni}(d,p)$ Reaction	LI, Jiatai

### Nuclear Astrophysics: NA 2 - Garibaldi B (16:40 - 18:10)

-Conveners: Annika Lennarz

time	[id] title	presenter
16:40	[174] Thermonuclear Runaways Investigated Using Beta-Delayed Charged Particle Emission	WREDE, Christopher
17:05	[312] (Zoom) Progress of Underground Nuclear Astrophysics JUNA Experiments	Prof. LIU, Weiping
17:30	[207] The Surrogate Reactions for the Neutron-Capture Rate Using OEDO and SHARAQ in RIBF	IMAI, Nobu
17:45	[4] Indirect Measurement of the $^{27}\text{Al}(p,\alpha)^{24}\text{Mg}$ and $^{27}\text{Al}(p,\gamma)^{28}\text{Si}$ Cross Sections and Astrophysical Implications	LA COGNATA, Marco

# Tuesday, 20 August 2024

## Nuclear Astrophysics: NA 3 - Garibaldi B (14:40 - 16:10)

-Conveners: Gavin Lotay

time	[id] title	presenter
14:40	[294] Probing Heavy Element Nucleosynthesis Through Electromagnetic Observations	MARTÍNEZ-PINEDO, Gabriel
15:05	[94] Improving the Theoretical Description of $\beta$ -Decay Half-Lives for Nuclear $r$ -Process	RAVLIC, Ante
15:20	[216] Nuclear Fission of Neutron-Rich Nuclei Based on Dynamical Calculations for $r$ -Process Nucleosynthesis	NISHIMURA, Nobuya
15:35	[346] SiRoP Implementations: The Alpha Process, Mass Models and Sensitivity Analysis	Mr TRUJILLO, Jose

# Wednesday, 21 August 2024

## Nuclear Astrophysics: NA 4 - Harmony A (08:30 - 10:30)

-Conveners: Almudena Arcones

time	[id] title	presenter
08:30	[291] The Importance of Isomeric States in Nuclear Astrophysics	Prof. LOTAY, Gavin
08:55	[129] Radiative Capture on Nuclear Isomers: Direct Measurement of the $^{26}\text{Al}(p,g)^{27}\text{Si}$ Reaction with DRAGON	LENNARZ, Annika
09:10	[211] Opportunities for Isomer Studies for Astrophysics at FRIB	PAIN, Steven
09:25	[101] Precise Measurement of Nuclear Interaction Cross Sections towards Neutron-Skin Determination with $R^3B$	PONNATH, Lukas
09:40	[183] Impact of Isoscalar- and Isovector-Meson Mixing on Properties of Asymmetric Nuclear Matter in Relativistic Mean-Field Models	MIYATSU, Tsuyoshi

# Thursday, 22 August 2024

## Nuclear Astrophysics: NA 5 - Garibaldi A (14:40 - 16:10)

-Conveners: Gabriel Martínez-Pinedo

time	[id] title	presenter
14:40	[296] Understanding X-ray Bursts via Direct Measurements of ( $\alpha$ ,p) Reactions	AVILA, Melina
15:05	[7] Constraining the Astrophysical $\gamma$ Process: Cross Section Measurements of (p, $\gamma$ ) Reactions in Inverse Kinematics	TSANTIRI, Artemis
15:20	[78] Measurements of ( $\alpha$ ,n) Reactions for Astrophysics at TRIUMF	Dr WILLIAMS, Matthew
15:35	[189] First Results From Measurements of Capture Reactions on Sn and Pd for the $\gamma$ -Process Using HECTOR	MCDONAUGH, John
15:50	[12] Neutron Induced Reactions for BBN: an Indirect Approach	Prof. PIZZONE, Rosario

## Nuclear Astrophysics: NA 6 - Garibaldi A (16:40 - 18:10)

-Conveners: Christopher Wrede

time	[id] title	presenter
16:40	[65] New Results on the Direct Measurement of Carbon Burning at Astrophysical Energies	Prof. COURTIN, Sandrine
16:55	[201] The Challenging Direct Measurement of the 65 keV Resonance Strength in $^{17}\text{O}(p,\gamma)^{18}\text{F}$ at LUNA	PIATTI, Denise
17:10	[225] Study of the Proton Capture Reaction on $^{20}\text{Ne}$ and $^{21}\text{Ne}$ Isotopes at LUNA	BARBIERI, Lucia
17:25	[245] A New Underground Measurement of the $^{14}\text{N}(p,\gamma)^{15}\text{O}$ Reaction at LUNA	COMPAGNUCCI, Alessandro

# Friday, 23 August 2024

## Nuclear Astrophysics: NA 7 - Garibaldi A (13:30 - 15:00)

-Conveners: Annika Lennarz

time	[id] title	presenter
13:30	[340] Experimental Constraints for i-Process Nucleosynthesis Using Indirect Techniques	RICHARD, Andrea
13:55	[197] Constraining Neutron Capture Cross Sections via Surrogate Measurements with Hyperion	KOROS, Jes
14:10	[117] Indirect Study of Alpha Capture on $^{17}\text{O}$ for Determining the Impact of $^{16}\text{O}$ on the s-Process	Dr ANGUS, Cameron