



# Nuclei in the Cosmos (NIC XVII)

## Tuesday, September 19, 2023

### Poster session (Nuclear reaction rates and stellar abundances) (5:00 PM - 7:30 PM)

time	[id] title	presenter
5:00 PM	[9] SSS matrices of elastic $\alpha$ - $^{12}\text{C}$ scattering at low energies in cluster effective field theory	ANDO, Shung-Ichi
5:05 PM	[21] Analytic expression of triple- $\alpha$ reaction rates by a non-adiabatic three-body model	KATSUMA, Masahiko
5:10 PM	[41] A new Multi-Channel and Monte Carlo R-Matrix analysis for the estimate of $^{17}\text{O}$ destruction rate in stars	Prof. BEST, Andreas
5:15 PM	[80] Understanding the S- and C-type Giant Stars in the Milky Way	MORI, Yoshiya
5:20 PM	[85] Astrophysical S factor of $^{15}\text{N}(\rho, \gamma)^{16}\text{O}$ in the cluster effective field theory	SON, Sangyeong
5:25 PM	[99] The first direct measurement of the $65\text{keV}$ resonance strength of the $^{17}\text{O}(\rho, \gamma)^{18}\text{F}$ reaction at LUNA	GESUÈ, Riccardo Maria
5:30 PM	[118] First study of the $^{139}\text{Ba}(n, \gamma)^{140}\text{Ba}$ reaction to constrain the conditions for the astrophysical i process	MUECHER, Dennis
5:35 PM	[126] Constraining neutron-capture cross section for the i-process for the $151\text{--}153\text{Nd}(n, \gamma)^{152\text{--}154}\text{Nd}$ reaction via the $\beta$ Oslo	BERG, Hannah
5:40 PM	[137] Experimental integral cross-sections of photonuclear reactions on proton-rich $^{113}\text{In}$ and $^{114}\text{Sn}$ nuclei for cosmic nucleosynthesis modelling	Mrs CHEKHOVSKA, Anastasiia
5:50 PM	[165] Impact of the excited- and bound-state $\beta$ -decays of $^{63}\text{Ni}$ on weak s-process nucleosynthesis [1]	Mr WANG, Xinxu
5:55 PM	[167] Neutron capture and total cross-section measurements on $^{94,95,96}\text{Mo}$ at n_TOF and GELINA	MUCCIOLA, Riccardo
6:00 PM	[119] Estimation of fission from proton-induced uranium-238 using the Langevin method	Mr SONG, Chang-hoon
6:05 PM	[79] Measurement of the $^{159}\text{Tb}(n, \gamma)$ cross section at the CSNS Back-n facility	Prof. ZHANG, Suyalatu
6:10 PM	[71] Production of solar abundances for nuclei beyond Sr: do we need better nuclear physics input?	PALMERINI, Sara
6:15 PM	[69] Measurement of the $^{27}\text{Al}(\rho, \alpha)^{24}\text{Mg}$ fusion reaction at astrophysical energies via the Trojan Horse Method.	PALMERINI, Sara
6:20 PM	[151] The impact of systematic and statistical nuclear uncertainties on the i-process nucleosynthesis	MARTINET, Sébastien
6:25 PM	[219] Massive star models with the updated $^{12}\text{C}+^{12}\text{C}$ reaction rate	SEONG, Gwangeon
6:30 PM	[223] The COREA experiment: measurement of $^{12}\text{C}(\alpha, n)^{16}\text{O}$ reactions with an active-target TPC	KIM, Shin Hyung