



# PANIC2021 Conference

## Sunday, 5 September 2021

### Nuclear and particle astrophysics (13:00 - 18:00)

-Conveners: Jaime Alvarez-Muniz; Daniel Galaviz; Rúben Conceição; Achim Schwenk

time	[id] title	presenter
13:00	[122] Study of Short-Range Correlations using a 48 GeV/c carbon beam	KAHLBOW, Julian
13:20	[130] Heavy-ion collisions and the low-density neutron star equation of state	PAIS, Helena
13:40	[438] Recent developments in the In-Medium Similarity Renormalization Group	TICHAJ, Alexander
14:00	[380] Bridging the gap between spectroscopy of hot, radioactive ion beams, and cold, precise measurements	Dr VERNON, Adam
14:30	[231] LUNA results on deuterium burning and implications for cosmology	Dr FERRARO, Federico
14:50	[99] Neutrino flavor evolution in dense environments and the r-process	Dr VOLPE, Maria Cristina
15:10	[223] r-Process Radioisotopes from Near-Earth Supernovae and Kilonovae	WANG, Xilu
15:25	[557] Atomic Structure Calculations in Lanthanide and Actinide ions relevant to kilonovae	FERREIRA DA SILVA, Ricardo
15:40	[96] First results from the ARTIE experiment	PAGANI, Luca
16:05	[185] Novel Focal-Plane Detector Concepts for PID at the FRIB S800 Spectrometer	CORTESI, Marco
16:20	[127] Experimental investigations of proton-capture reactions with $^{112,114}\text{Cd}$ at energies of astrophysical interest	Mr VASILEIOU, Polytimos
16:35	[559] Determination of $^{118}\text{Sn}(p,g)^{119}\text{Sb}$ cross-section at astrophysical energies from X-ray emission yields	XAREPE, Manuel
16:50	[558] Trojan Horse Method for n-induced reaction investigations at astrophysical energies	SERGI, Maria Letizia
17:05	[163] Cross section of the $^{13}\text{C}(\alpha,n)^{16}\text{O}$ reaction at low energies in the framework of LUNA collaboration	CIANI, Giovanni Francesco
17:20	[247] Extension of Migdal-Watson formula and its application to binary breakup reaction	NAKAMOTO, riu
17:35	[261] New observation of $\alpha$ decay of $^{190}\text{Pt}$ to the first excited level of $^{186}\text{Os}$	Dr ROMANIUK, Mariia

# Wednesday, 8 September 2021

## Nuclear and particle astrophysics (13:00 - 18:00)

-Conveners: Daniel Galaviz; Rúben Conceição; Jaime Alvarez-Muniz; Achim Schwenk

time	[id] title	presenter
13:00	[405] The Southern Wide-field Gamma-ray Observatory	BELLIDO, Jose
13:20	[478] Review of Neutrino Astrophysics with IceCube	TABOADA, Ignacio
13:40	[181] ANTARES & KM3NeT: High Energy Astrophysical Neutrino Telescopes in the Mediterranean Sea	CAPONE, Antonio
14:00	[471] Ultrahigh-energy physics from high altitudes with ANITA	DEACONU, Cosmin
14:20	[337] Probing hadronic interactions with the Pierre Auger Observatory	FENU, Francesco
14:50	[95] Results overview from the DAMPE space mission in orbit	KYRATZIS, Dimitrios
15:10	[285] Sensitivity of the LUX-ZEPLIN experiment to rare Xenon decays	BRAZ, Paulo
15:30	[153] Axion Production in Pulsar Magnetosphere Gaps	PRABHU, Anirudh
15:45	[168] Supernova constraints on dark flavoured sectors	TEROL CALVO, Jorge
16:00	[114] Constraints on the fermionic dark matter from observations of neutron stars	SAGUN, Violetta
16:25	[481] The Scintillation Bubble Chamber (SBC) experiment for dark matter and reactor CEvNS	Dr PAL, Sumanta
16:40	[498] The use of realistic equations of state in $f(R, T)$ gravity theory and massive neutron stars	MALHEIRO, Manuel
16:55	[174] Neutron Star Cooling on Strong Magnetic Field : Neutrino -Antineutrino Pair Emission and Direct Urca Processes	Prof. MARUYAMA, Tomoyuki