## ABSTRACTS SELECTED AS CONTRIBUTED TALKS

**Session: Big-Bang Nucleosynthesis and Early Universe**

#2. "Neutron induced reactions for BBN: the Trojan Horse approach", G. Pizzone (Italy)

#30. "Ending the second cosmological Li problem", E. Wang (Sweden)

**Session: Stellar Abundances I - Spectroscopy, Meteorites, Solar System Abundances, EMP…**

#7. "Origin of α-poor Very Metal-poor Stars", S.K. Jeena (India)

#19. "R-Process Alliance: unveiling the abundance patterns of ten r-II stars through homogeneous spectral analysis", M. Racca (Sweden)

#102. "3D NLTE abundance of iron-peak and neutron-capture elements within GCE context", N. Storm (Germany)

#147. "Nature's Fission Fragment Distribution", E. Holmbeck (USA)

#164. "The heavies in CEMP", R. Muhammed (India)

#246. "Examinating evidence for a shorter $^{146}$Sm-$^{142}$Nd chronology in the early solar System", Y. Qian (China)

**Session: Stellar Abundances II - Presolar Grains**

#111. "Correlated heavy isotope signatures in presolar SiC", A. Davis (USA)

#230. "The Impact of Extra Mixing in Low-Mass Stars on Presolar Grain Abundance Predictions", M. Cockshutt (Canada)

**Session: Nuclear Reactions. Experiments**

#13. "Determining neutron-induced reaction cross sections with surrogate reactions in inverse kinematics at heavy-ion storage rings", C. Berthelot (France)

#95. "Experimental investigation on the γ-emission probability of the unbound states in $^{131}$Sn through $^{130}$Sn(d,p)$^{131}$Sn reaction measurement for understanding r-process", S. Bae (Japan)

#129. "Direct measurement of the carbon-carbon fusion cross section at stellar energies", Y. Li (China)

#155. "Underground Measurements of the $^{16}$O(p,γ)$^{17}$F Reaction at LUNA", D. Robb (UK)

#210. "The results of the $^{204}$Tl and $^{205}$Tl neutron capture cross section measurement at n_TOF (CERN) and their impact to the s-process-only $^{204}$Pb and $^{205}$Pb production", F. Calviño (Spain)

#228. "Investigation of $^{31}$P levels near the proton threshold by Nuclear Resonance Fluorescence and the impact on the $^{30}$Si(p,γ)$^{31}$P thermonuclear rate", D. Gribble (USA)

**Session: Neutrinos**

#172. "Collective neutrino oscillations and the heavy-element nucleosynthesis in supernova", X. Wang (China)

#219. "Neutrino Oscillations in Post-Merger Disks", K. Lund (USA)

**Session: Stellar Evolution I. Hydrostatic Evolution, AGBs, Massive Stars, s-process**

#25. "The Role of Carbon-Oxygen Shell Interactions in the Nucleosynthesis and Final Fate of Massive Stars", L. Roberti (Italy)

#158. "Nucleosynthesis and wind yields of Very Massive Stars", E. Higgins (Ireland)

#169. "Comparing the Elemental Yields from Low-Mass Single and Binary Star Populations", Z. Osborne (Australia)

#202. "Common Envelope Nucleosynthesis: investigation into how nucleosynthesis can vary across different neutron star common envelope binaries", A. Hall-Smith (UK)

**Session: Stellar Evolution II. XRBs and Novae**

#68. "H-triggered X-ray Bursts on Slowly Accreting Neutron Stars", S. Casten (USA)

#131. "Weak rp-process nucleosynthesis in low-metallicity novae explosions", T. Psaltis (USA)

**Session: Stellar Evolution III. SNe, Kilonovae, Mergers, r- and p-Process**

#36. "Nucleosynthesis in core-collapse supernovae", A. Arcones (Germany)

#52. "Neutrino-Mass Hierarchy and The Roles of Radioactive Nuclear Reactions in Explosive Nucleosynthesis of Supernovae, Collapsars and Mergers", T. Kajino (China)

#177. "Probing Pair-Instability Supernovae via $^{56}$Ni Decay Signatures", R. Sawada (Japan)

#234. "3D Simulations of White Dwarf-Main Sequence Star Collisions", C. van der Merwe (South Africa)

**Session: High-Density Matter. EOS of Neutron Stars**

#58. "New Constraints on the Neutron Star Equation of State", M. Mendes (Germany)

#225. "Core-collapse supernova simulations based on the new HWS EOS", G. Navó (Spain)

**Session: Atomic and Nuclear Inputs for Nuclear Astrophysics**

#92. "Mass Measurements of Exotic Neutron-Deficient Nuclides Below $^{100}$Sn at IGISOL and Their Astrophysical Implications", Z. Ge (Finland)

#179. "Comprehensive Atomic Data for Kilonova Spectral Modeling Beyond the Photospheric Phase", R. Ferreira da Silva (Portugal)

**Session: Galactic Chemical Evolution**

#18. "Galactic chemical Evolution with short lived radioactive isotopes", B. Wehmeyer (Poland)

#67. "26Al: how to model a short-lived radioactive isotope - from a 1D to a 2D approach", A. Vasini (Italy)

**Session: New Facilities and Techniques**

#123. "Investigating explosive nucleosynthesis through measurements of (α,n) and (p,n) reactions using SECAR", P. Tsintari (USA)

#144. "Nuclear Astrophysics with Stored Highly Charged Radioactive Ions", Y. Litvinov (Germany)

#150. "Neutron-Induced Reactions in a High-Density Inertial Confinement Plasma and Their Nuclear Astrophysics Nexus", M. Paul (Israel)

#154. "Direct measurement of neutron capture on radioactive isotopes at CERN n_TOF", C. Domingo-Pardo (Spain)

#183. "Nuclear astrophysics activities at CENS", K.I. Hahn (Korea)

#220. "The E1 and E2 capture amplitudes in $^{12}$C(α, γ)$^{16}$O around the 2.42 MeV resonance", K. Chakraborty (Italy)

**Session: Nuclear Theory**

#118. "Bayesian Uncertainty Quantification of Alpha Elastic Scattering to Constrain the α Optical Model", C. Marshall (USA)

#142. "Microscopic description of β-decay rates of r-process Nuclei", D. Alvear-Terrero (Germany)