Nuclear Physics in Astrophysics XI

Monday 16 September 2024

Poster Session - Schönfeld-Hörsaal BAR/SCHÖ/E (18:30 - 20:35)

[id] title	presenter	board
[21] Emulator for the r-process and its energy generation in neutron-star merger remnants	XIONG, Zewei	
[67] Alpha induced reactions on \$^{124}\$Xe for the astrophysical p-process	TÓTH, Ákos	
[40] Experimental study of the \${}^{29}\$Si(p,\$\gamma\$)\${}^{30}\$P reaction for classical nova nucleosynthesis	MÁTYUS, Zsolt	
[138] Understanding 22Na cosmic abundance	DE OLIVEIRA SANTOS, Francois	
[146] Homogeneous analysis of 10 highly r-process enhanced stars	RACCA, Mila	
[178] The direct determination of the cross section of the 12C + 12C reaction at astrophysical energies	GESUE', Riccardo Maria	
[78] Resolving the discrepancies in the spectroscopy of \${}^{39}\$Ca for the \$^{38}\$K(\$p\$,\$\gamma\$)\$^{39}\$Ca reaction	BINDA, Sifundo	
[123] S-Process Nucleosynthesis in and from AGB Stars	DIMOFF, Alexander Jordan	
[66] Bayesian study of quasi-universal relations for neutron stars normal modes	MONTEFUSCO, Gabriele	
[112] New half-lives and \$\beta\$-delayed neutron branchings for Ba to Nd nuclei (A\$\sim\$160) for r-process rare-earth nucleosynthesis	PALLAS I SOLIS, Max	
[71] Contribution of individual astrophysical events to chemical evolution of dwarf galaxies	FUKAGAWA, Nao	
[125] Fully calibrated lanthanide atomic data for 3D kilonova modeling	FLOERS, Andreas	
[152] Probing the deconfinement phase transition in hybrid stars with the fastest-spinning millisecond pulsars	GARTLEIN, Christoph	
[168] NG-Trap: System for Measuring Neutron Capture Cross-sections of Short-lived Fission Fragments	WILSENACH, Heinrich	
[114] Investigating the Effects of Convective Boundary Mixing on Massive Stars at Low Z	WHITEHEAD, Emily	
[191] Early onset of color-superconducting quark matter in neutron stars	IVANYTSKYI, Oleksii	
[183] Fast neutron induced transmission to study resonances in (α,n) reactions	JUNGHANS, Arnd	
[75] What is the Final Fate of Intermediate Mass Stars: Thermonuclear or Core-Collapse Supernova?	CHRISTIANS, Paul	
[80] Experimental studies on the optical spectrum of the heavy r-process nuclide Cf-254 and its neighbors	Mr BERNDT, Sebastian	
[156] Mass measurements of neutron-rich nuclides at the N=126 shell with the FRS Ion Catcher	Ms MAHAJAN, Kriti	
[167] Using Cool-Bottom Processing in RGB and AGB stars to explain Isotopic Ratios in Presolar Grains	COCKSHUTT, Maeve	
[38] Complete r-Process Survey	KUSKE, Jan	

[153] Cosmogenic and Interstellar Radionuclides in Lunar Soil	ZWICKEL, Sebastian	
[113] The \$^{140}\$Ce(n,\$\gamma\$) cross section measured at n_TOF and its astrophysical implications	Dr SAHOO, Rudra N.	
[111] 321D modelling of the interplay between turbulence and nuclear reactions in massive stars	HIRSCHI, Raphael	
[163] \$^{12}\mathrm{C}(\alpha,\gamma)^{16}\mathrm{O}\$ cross section measurements with the ERNA separator	SANTONASTASO, Claudio	
[56] Constraining the NiCu cycle in X-ray bursts: Spectroscopy of \${}^{60}\$Zn	O'SHEA, Connor	
[23] Re-visiting the role of short-range correlations on neutron star properties	Mr VENNETI, Anagh	
[31] Nuclear pasta in neutron stars	SHCHECHILIN, Nikolai	
[35] CERES survey: chemical abundances of neutron capture elements up to Eu	LOMBARDO, Linda	
[52] Constraining the \${}^{69}\$Zn Neutron Capture Cross-Section via the Beta-Oslo Method	RONNING, Eleanor	
[90] Shedding light on the brightest supernovae	FIORE, Achille	
[37] The New Deep-underground Direct Measurement of \${}^{22}\mathrm{Ne}(\alpha,\gamma){}^{26}\mathrm{Mg}\$ with EAS\$\gamma\$: a feasibility study	MERCOGLIANO, Daniela	
[107] Exploring late stages of massive stars evolution in the context of new precise nuclear reaction rates	DUMONT, Thibaut	
[121] Multimessenger emission of Accretion-Induced Collapse events	LONGO MICCHI, Luis Felipe	
[130] Results of cross-section measurements of proton-capture reactions on stable Rubidium isotopes	Ms WILDEN, Svenja	
[137] Shell model description of the spectroscopic properties of the Aluminum isotopes of astrophysical interest	Prof. BOUHELAL, Mouna	
[69] Constraining the Astrophysical \$\gamma\$ Process: Cross Section Measurements of (p,\$\gamma\$) Reactions in Inverse Kinematics	TSANTIRI, Artemis	
[176] Dipole strength in the well-deformed nucleus \${}^{154}\$Sm in the Pygmy Resonance energy-region via \$(\gamma,\gamma^\prime)\$ reactions	Dr BENOUARET, Nadia	
[314] Investigation of excited states in \$^{15}\$O at AGATA and Felsenkeller	OSSWALD, Max	
[316] Commissioning of a New, Innovative Gas Target for Nuclear Astrophysics	SCHMIDT, Konrad	
[87] Measurement of neutron capture cross section of \$^{64}\$Ni at n_TOF	SPELTA, Michele	
[129] Experiments with fast neutrons at nELBE	BEYER, Roland	
[128] The quest for detection of \$^{182}\$Hf in Earth's archives - new techniques in Accelerator Mass Spectrometry for the search of live nucleosynthesis signatures	MARTSCHINI, Martin	
[45] Nucleosynthesis and Kilonova in Neutron Star Mergers: Impact of Nuclear Matter Properties	RICIGLIANO, Giacomo	
[132] Nuclear Physics Experiments at the Bremsstrahlung Facility \$\gamma\$ELBE	SCHWENGNER, Ronald	
[166] Search for Supernova-produced \$^{60}\$Fe in Antarctica Tracing the Local Interstellar Cloud	ROLOFS, Annabel	
[140] Stelle Sulla Terra: The advantages of making science accessible	CACIOLLI, Antonio	
[131] Search for r-process Pu-244 in the K-Pg boundary layer	FICHTER, Sebastian	
[36] The SHADES Project: Underground Measurement of the Low Energy \${}^{2}\$Ne(\$\alpha\$,n)\${}^{25}\$Mg Cross Section	CHILLERY, Thomas	

[50] An atomic approach to the opacity of open-shell ions	FRITZSCHE, Stephan	
[181] The 12C+12C reaction at the Bellotti Ion Beam Facility - The setup development	Dr TURKAT, Steffen	
[172] Using slow ions in accelerator mass spectrometry for experimental nuclear astrophysics	WIESER, Alexander	
[106] The SOCIAL project: measurement of the \${}^{14}\mathrm{N}(p,\gamma){}^{15}\mathrm{O}\$ cross section	Dr GOSTA, Giulia	
[161] Incorporating thermal effects into alpha decay half-life calculations for nucleosynthesis investigations	ROJAS GAMBOA, Diego Ferney	
[55] Core-collapse supernova yields in galactic chemical evolution	JOST, Finia	
[145] A new grid of 3D non-LTE Barium abundance corrections	STEFFEN, Matthias	
[202] Development of the Charge-Exchange Oslo Method and Application Towards Constraining Reaction Rates for Nucleosynthesis of Cosmochronometer \${}^{92}\mathrm{Nb}\$	PATHIRANA, Neshad D.	
[158] Neutron-capture in the wild: finding r-process enhanced metal-poor stars in the Milky Way and beyond	PLACCO, Vinicius	
[88] Weak rates determining the production of the \$^{205}\$Pb cosmochronometer in AGB stars	NEFF, Thomas	
[122] The deep underground "Bellotti Ion Beam Facility" at the Gran Sasso National Laboratories	JUNKER, Matthias Bernhard	
[81] Half-life and β-delayed neutron measurements of neutron-rich nuclei near N=126 at RIBF	YEUNG, Tik Tsun	
[104] Microscopic fission collective inertias for astrophysical applications	Mr COVALAM VIJAYAKUMAR, Nithish Kumar	
[185] Exploring Supernova signatures in time-resolved records from the Atacama Desert, Chile	FEIGE, Jenny	
[143] Comparing Radiative Transfer Methods for Kilonovae	LECK, Gerrit	
[32] A novel numerical library for neutrino-matter interaction rates in binary neutron star mergers	CHIESA, Leonardo	
[174] The i-process in AGB stars with Overshoot	REMPLE, Bryce	
[24] Unraveling the global behavior of equation of state by explicit finite nuclei constraints	VENNETI, Anagh	
[46] Low energy measurement of the \${}^{96}\$Zr(\$\alpha\$,n)\${}^{99}\$Mo, \${}^{100}\$Mo(\$\alpha\$,n)\${}^{103}\$Ru and \${}^{86}\$Kr(\$\alpha\$,n)\${}^{89}\$Sr reactions for studying the weak r-process nucleosynthesis	KOVÁCS, Sándor	
[70] Late time behaviour of the kilonova light curves	Dr ROJAS-GAMBOA, Diego Ferney	
[77] Experimental cross section of the \$^3\$He(\$\alpha\$,\$\gamma\$)\$^7\$Be reaction around \$E_\mathrm{cm}=3\mathrm{MeV}\$	Dr SZÜCS, Tamás	
[82] Exploring nucleosynthetic processes in a large sample of Barium stars	CSEH, Borbála	
[86] Measurement of neutron capture cross section of \$^{30}\$Si at n_TOF	SPELTA, Michele	
[93] Variety of disk wind-driven explosions in massive rotating stars	CROSATO MENEGAZZI, Ludovica	
[94] Repairing \$^{205}\$Pb as an early Solar System chronometer by measuring the bound-state beta decay of \$^{205}\$Tl	Dr DILLMANN, Iris	

[150] Measurement of \${}^{26}\mathrm{Al}(n,p)\$ and \${}^{26}\mathrm{Al}(n,\alpha)\$ Cross Sections in Supernova Temperatures	Mr GREEN, Akiva	
[25] Differences in chemical enrichment of metal-poor Milky Way stars	MISHENINA, Tamara	
[27] First evaluation of the \$^{17}\$O(p,\$\gamma\$)\$^{18}\$F 65 keV resonance strength by direct measurement at LUNA	GESUE', Riccardo Maria	
[320] Measurement of the \$^{3}\$He(\$\alpha,\gamma\$)\$^{7}\$Be \$\gamma\$-ray angular distribution	Mr HEMPEL, Peter	
[318] Impact of \${}^{56}\$Ni production in neutrino-driven winds from long-lived binary neutron star merger remnants	JACOBI, Maximilian	