



## The NIC-IX Program – Poster session 22

### Friday, June 30, 10:35-11:30

- 22.01 On the origin of the high helium sequence in Omega Centauri  
**MEYNET, Georges; MAEDER, André** (ID: 203)
- 22.02 A charge breeder for nuclear astrophysics experiments?  
**DELAHAYE, Pierre; MARIE-JEANNE, Mélanie** (ID: 204)
- 22.03 Neutron capture cross sections of the Zr isotopes: probing neutron exposure and neutron flux in Red Giants  
**TAGLIENTE, Giuseppe** (ID: 205)
- 22.04  $^{25}\text{Al}+p$  elastic scattering with CRIB  
**PEARSON, Jonty** (ID: 206)
- 22.05 Isospin symmetry in nucleon and alpha-decays of mirror nuclei and its astrophysical applications  
**TIMOFEYUK, Natalia** (ID: 207)
- 22.06 Primordial magnetic field constrained from CMB anisotropies and its generation and evolution before, during and after the BBN  
**YAMAZAKI, Dai** (ID: 208)
- 22.07 Neutrino signal of supernova shock wave propagation: MSW distortion of the spectra and nucleosynthesis  
**KAWAGOE, Shiou** (ID: 209)
- 22.08 The effective long range interaction and resonances in naa system at astrophysical energies  
**TAKIBAYEV, Nurgali** (ID: 210)
- 22.09 A case for fast stellar rotation at very low metallicities: C and N in very metal poor halo stars  
**CHIAPPINI, Cristina** (ID: 211)
- 22.10 Suppression of the neutron channel in low energy d+d reactions within metallic media  
**CZERSKI, Konrad** (ID: 212)
- 22.12 Neutrons and features of primordial nucleosynthesis  
**TAKIBAYEV, Nurgali** (ID: 215)
- 22.13 The TRIUMF annular chamber of tracking and identification of charged particles (TACTIC)  
**RUPRECHT, Götz** (ID: 216)

- 22.14 The influence of electron screening on half lives  
**RUPRECHT, Götz; BUCHMANN, Lothar** (ID: 217)
- 22.15 Beta-beam born neutrino - an alternative to double beta decay to determine the Majorana neutrino mass  
**SUJKOWSKI, Ziemowid** (ID: 219)
- 22.16 Can radiative decay of long-lived particles after the BBN solve the cosmological  ${}^6\text{Li}$  problem?  
**KUSAKABE, Motohiko** (ID: 220)
- 22.17 Dating of the  ${}^{60}\text{Fe}$ -peak in a deep sea manganese crust  
**KNIE, Klaus; WALLNER, Anton** (ID: 221)
- 22.18 Chemical mixing in galactic BA-type supergiants  
**FIRNSTEIN, Markus** (ID: 223)
- 22.19 Neutrino-nucleus inelastic scattering reactions for core-collapse supernovae  
**SAMPAIO, Jorge; JUODAGALVIS, Andrius** (ID: 224)
- 22.20 Quantitative spectroscopy of BA-type supergiants: Observational constraints on massive star evolution in the local group  
**PRZYBILLA, Norbert** (ID: 225)
- 22.21 Towards global optical alpha potentials: study of the  ${}^{89}\text{Y}(\alpha,\alpha){}^{89}\text{Y}$  elastic scattering  
**KISS, Gabor** (ID: 226)
- 22.22 Mass measurements of radionuclides near the endpoint of the rp-process at SHIPTRAP  
**VOROBYEV, Glebl** (ID: 227)
- 22.23 Mass measurements of  ${}^{22}\text{Mg}$  and  ${}^{26}\text{Si}$  via (p,t) reactions and Penning traps  
**CLARK, Jason; PARIKH, Anuj** (ID: 228)
- 22.24 On the  $\alpha$ -particle semi-microscopic optical potential at low energies  
**AVRIGEANU, Marilena** (ID: 229)
- 22.25 Time of flight mass measurements in the neutron rich Fe region  
**ESTRADE, Alfredo** (ID: 231)
- 22.26 Decay studies at the end of the rp-process  
**SMITH, Edward** (ID: 232)
- 22.27 Fragmentation spectra of strange quark matter in a type-II supernova scenario  
**PAULUCCI, Laura** (ID: 233)
- 22.28 Level structure of  ${}^{21}\text{Mg}$ : Nuclear and astrophysical implications  
**MURPHY, Alexander** (ID: 234)
- 22.29 Proton induced reaction cross sections on the Ge isotopes  
**FÜLÖP, Zsolt** (ID: 235)
- 22.30 Neutron decay array for beta-delayed neutron decay studies  
**LUROSSO, Giuseppe** (ID: 236)

- 22.31  $^{13}\text{C}(\alpha, n)^{16}\text{O}$  reaction rate at stellar temperatures  
**ROGACHEV, Grigory** (ID: 238)
- 22.32 Analysis of the  $^{16}\text{O}(d, p)^{17}\text{O}$  and  $^{16}\text{O}(d, n)^{17}\text{F}$  transfer reactions to determine astrophysical direct capture cross sections  
**ASSUNÇÃO, Marlete** (ID: 239)
- 22.33 Sensitivity of type I X-ray bursts to rp-process reaction rate  
**AMTHOR, Matthew** (ID: 241)
- 22.34 Neon abundances in B-stars of the Orion association: Solving the solar neon problem?  
**CUNHA, Katia** (ID: 243)
- Beta-decay studies of states in  $^{12}\text{C}$   
**GADEGAARD PEDERSEN, Solveig** (ID: 255)
- 22.35 Nucleosynthesis relevant conditions in neutrino-driven supernova outflows  
**ARCONES, Almudena** (ID: 256)
- 22.36 Electron capture rates for neutron star crusts  
**BECERRIL REYES, Ana Delia** (ID: 267)