Monday, June 26, 16:10-17:10

18.01 Abundances of Mn, Co and Eu in a sample of 20 F-G disk stars: the influence of hyperfine structure splitting
DEL PELOSO, Eduardo (ID: 1)

18.02 Coherent effects in nuclear pasta matter
PEREZ GARCIA, Angeles (ID: 5)

18.03 Pre-supernova models at low metallicities
HIRSCHI, Raphael (ID: 7)

18.04 Breakup and competing processes in reactions involving weakly bound nuclei
SZANTO DE TOLEDO, Alejandro (ID: 8)

18.05 $^{18}$F($\alpha$,p)$^{21}$Ne reaction: neutron source for r-process in supernovae
LEE, Hye Young (ID: 10)

18.06 Abundance clues to the natures of the "Main" and the "Weak" r-processes
KRATZ, Karl-Ludwig; PFEIFFER, Bernd; FAROUQI, Khalil; COWAN, John, J.; SNEDEN, Chris; TRURAN, James, W. (ID: 11)

18.08 Structure of doorway states above the $K^\pi = (8^+), t_{1/2}\sim2.0\times10^5$ yr isomer in $^{186}$Re and their impact on the accuracy of the $^{187}$Re/$^{187}$Os cosmochronometer
KONDEV, Filip G (ID: 18)

18.09 Indirect techniques in nuclear astrophysics
MUKHAMEDZHANOV, Akram Zhanov (ID: 19)

18.10 Measurement of the stellar $(n,\gamma)$ cross section of $^{54}$Fe
COQUARD, Laurent (ID: 21)

18.11 First measurements of the total and partial stellar neutron cross sections to the s-process branching-point $^{79}$Se
DILLMANN, Iris (ID: 23)

18.12 Present status of the KADoNiS database
DILLMANN, Iris; PLAG, Ralf (ID: 24)

18.13 Light from the ashes: Explosion physics and nucleosynthesis from the X-ray spectra of Type Ia supernova remnants
BADENES, Carlos (ID: 25)

18.14 Lead abundance and the weak r-process in the metal-poor star K462 (M15)
HANNAWALD, Michael (ID: 27)
18.15 The production of germanium in asymptotic giant branch stars
KARAKAS, Amanda (ID: 40)

18.16 r-process nucleosynthesis in Alfvén wave-driven proto-neutron star winds
SUZUKI, Takeru (ID: 41)

18.17 Excitation functions of (p,n)-reactions on $^{115}$Sn, $^{116}$Sn and $^{120}$Sn isotopes
SKAKUN, Yevgen (ID: 42)

18.18 Experimental determination of the $^{41}$Ca(n,$\alpha$)$^{38}$Ar reaction cross section as a function of the neutron energy
DE SMET, Liesbeth (ID: 43)

18.19 Towards a direct measurement of the $^{15}$O(,$\alpha$)$^{19}$Ne cross section: a first approach using the $^{15}$O+$\alpha$ elastic scattering
ANGULO, Carmen (ID: 46)

18.20 Gravitational wave emission during the transition from rapidly differential rotating neutron stars to strange stars
YASUTAKE, Nobutoshi (ID: 47)

18.21 Can supernova neutrino nucleosynthesis constrain neutrino oscillation parameters?
YOSHIDA, Takashi (ID: 48)

18.22 r-process nucleosynthesis in a collapsar
NAGATAKI, Shigehiro (ID: 49)
Tuesday, June 27, 10:30-11:30

19.01 Non-extensive statistical effects on the nuclear equation of state and on nuclear astrophysical problems

LAVAGNO, Andrea (ID: 52)

19.02 Present-day carbon abundances from early-type stars

NIEVA, Maria Fernanda (ID: 53)

19.03 Metastability of electron-nuclear astrophysical plasmas

GERVINO, Gianpiero; LAVAGNO, Andrea (ID: 54)

19.04 Neutron capture studies with a short flight path

WALTER, Stephan (ID: 55)

19.05 Quantitative spectroscopy of Deneb

SCHILLER, Florian (ID: 56)

19.06 New experiments on neutron rich r-process Ge-Br isotopes at the NSCL/MSU

QUINN, Matthew (ID: 57)

19.07 CNO production in the first generation stars

EKSTRÖM, Sylvia (ID: 61)

19.08 Heavy element nucleosynthesis in the MHD jet explosions of core-collapse supernovae

NISHIMURA, Nobuya (ID: 63)

19.09 Photodisintegration of $^{80}$Se, $^{94}$Zr, and $^{108}$Pd as a probe of neutron capture for radioactive nuclei

UTSUNOMIYA, Hiroaki (ID: 64)

19.10 Observational constrains on the cosmology with a decaying cosmological term

NAKAMURA, Riou (ID: 65)

19.11 The s-process branching at $^{186}$Re revised

MOHR, Peter (ID: 66)

19.12 Measurement of the stellar $(n, \gamma)$ cross section of $^{182}$Hf

VOCKENHUBER, Christof (ID: 67)

19.13 Light element production in the circumstellar matter of Type Ic supernovae at low metallicity

NAKAMURA, Ko (ID: 68)

19.14 Exotic cooling on neutron stars with different surface compositions

NODA, Tsuneo (ID: 69)
19.15 Phase-transition phenomenology of frustrated nuclear matter in compact stars

**NAPOLITANI, Paolo** (ID: 71)

19.16 Dielectronic recombination rates in astrophysical plasmas

**QUARATI, Piero** (ID: 72)

19.17 Universality of the p process

**HAYAKAWA, Takehito** (ID: 74)

19.18 Cosmic clock and thermometer for neutrino process

**HAYAKAWA, Takehito** (ID: 75)

19.19 The high-resolution spectroscopy of cool extremely metal-poor carbon-rich stars

**ZACS, Laimons** (ID: 76)

19.20 Extraction of resonant component from spin-polarization observables

**YAMAGUCHI, Mitsutaka** (ID: 77)

19.21 Equation of state and neutrino signal from collapsing stellar cores

**YUDIN, Andrey** (ID: 78)

19.22 Asymmetric collapsing supernovae explosion with rotation

**MANUKOVSKIY, Konstantin** (ID: 79)

19.23 Experimental studies of shell-model basis states near $^{132}$Sn

**WALTERS, William** (ID: 81)

19.24 New study of the astrophysical reaction $^{13}$C($\alpha,n$)$^{16}$O via the $^{13}$C($^7$Li,t)$^{17}$O transfer reaction

**PELLEGRITI, Maria Grazia; HAMMACHE, Fairouz** (ID: 82)

19.25 Measurement of $^3$He($\alpha,\gamma$)$^7$Be with ERNA recoil separator

**DI LEVA, Antonino** (ID: 83)

19.26 First experimental constraints on the interference of 3/2+ resonances in the $^{18}$F($p,\alpha$)$^{15}$O reaction

**CHAE, K. Y.** (ID: 84)

19.27 Nuclear superfluidity and the cooling time of neutron stars

**SANDULESCU, Nicolae** (ID: 85)

19.28 Low-mass AGB stars abundance predictions with improved stellar cross sections

**BISTERZO, Sara** (ID: 86)

19.29 SNRs as probes of chemical composition of interstellar medium

**TELEZHINSKY, Igor; HNATYK, Bohdan; PETRUK, Oleh** (ID: 87)

19.30 Nucleosynthesis of Binary low mass zero-metallicity stars

**LAU, Ho Bun Herbert** (ID: 91)

19.31 Synthesis of CNO elements in standard BBN

**IOCCO, Fabio** (ID: 93)
19.32 Shell model spin and parity dependent nuclear level densities for nuclear reaction rates
   HOROI, Mihai

19.33 Nucleosynthesis and mixing in rotating AGB stars at low metallicity
   DECRESSIN, Thibault

19.34 The $^{25}\text{Al}(p,\gamma)^{26}\text{Si}$ reaction rate in novae
   BARDAYAN, Dan

19.35 The QSE-reduced nuclear network for supernovae nucleosynthesis
   PARETE-KOON, Suzanne

19.36 Investigation of nucleosynthesis capture reactions by using $^{8}\text{Li}$ radioactive beam transfer reactions
   GUIMARAES, Valdir
### Wednesday, June 28, 10:10-11:00

20.01 Level structure of $^{19}\text{Ne}$ from studies of the $^{17}\text{O}(^{3}\text{He},n)^{19}\text{Ne}$ reaction  
**HORNISH, M.; BRUNE, C.**  
(ID: 103)

20.02 The rp-process in core-collapse supernovae  
**WANAJO, Shinya**  
(ID: 105)

20.03 The weak r-process in core-collapse supernovae  
**WANAJO, Shinya**  
(ID: 106)

20.04 Elastic scattering of $^{8}\text{B}$ on Pb, liquid Hydrogen and liquid Helium targets and the $^{7}\text{Be}(p,\gamma)^{8}\text{B}$ S-factor  
**BISHOP, Shawn**  
(ID: 107)

20.05 Low energy nuclear reaction measurements using monolithic silicon telescope  
**NISHIMURA, Shunji**  
(ID: 109)

20.06 Photonuclear reactions of light nuclei studied with high-intensity real photon beams  
**SHIMA, Tatsushi**  
(ID: 110)

20.07 Supernova physics with a low-energy beta-beam  
**MCLAUGHLIN, Gail; JACHOWICZ, Natalie**  
(ID: 111)

20.08 The detailed abundance patterns of light neutron-capture elements in very metal-poor stars  
**HONDA, Satoshi**  
(ID: 112)

20.09 Neutrino opacities in a relativistic non interacting neutron gas  
**VANTOURNHOUT, Klaas**  
(ID: 113)

20.10 Mass measurement of neutron-deficient nuclei close to the N = Z line  
**HAGER, Ulrike**  
(ID: 114)

20.11 Hydrodynamic models of Type I X-ray bursts  
**JOSE, Jordi**  
(ID: 117)

20.12 Enhanced d(d,p)t cross section in metallic environments  
**RAIOLA, Francesco**  
(ID: 118)

20.13 Thermonuclear burning ignition and propagation along the surface of neutron star during X-ray bursts  
**GRYAZNYKH, Dmitry A.; SIMONENKO, Vadim A.**  
(ID: 119)

20.14 Measurement of the partial $(n,\gamma)$ cross section to $^{176}\text{Lum}$ at s-process temperatures  
**WINCKLER, Nicolas**  
(ID: 121)
20.15 Mapping of the $^{12}$C* and $^{9}$B* states of astrophysical interest via the $^{10}$B($^{3}$He,$p\alpha\alpha\alpha$) reaction

ALCORTA, Martin (ID: 122)

20.16 Fission fragments of actinide and superheavy nuclides in primordial Solar system material and problem of their origin

GONCHAROV, Georgy (ID: 123)

20.17 A nonperturbative field-theoretical model for nuclear matter without the sigma and omega

JENA, Saktidhar (ID: 124)

20.18 Spectroscopic analyses of subluminous B stars in binaries

GEIER, Stephan (ID: 125)

20.19 A new approach to the solution of large thermonuclear burning networks

GUIDRY, Mike (ID: 126)

20.20 Experiments and observations of light r-process nuclei

MONTES, Fernando (ID: 127)

20.21 Neutrino nucleosynthesis of the exotic nuclei $^{138}$La and $^{180}$Ta by charged current reactions

BYELIKOV, Anatoliy (ID: 129)

20.22 Measurement of the $^{62}$Ni(n,$\gamma$)$^{63}$Ni reaction cross section at $3 < E_n < 100$ keV

NAGAI, Yasuki (ID: 130)

20.23 Study of unbound $^{19}$Ne states via the proton transfer reaction $^2$H($^{18}$F,$\alpha$+$^{15}$O)n

ADEKOLA, A.; BRUNE, C. R. (ID: 131)

20.24 Multiple particle break-up studies in the neutron rich Li isotopes

MADURGA FLORES, Miguel (ID: 132)

20.25 Activation method for cross section measurements related to the p-process nucleosynthesis

ÖZKAN, Nalan (ID: 133)

20.26 Activation measurement of the $^{19}$F(n,$\gamma$)$^{20}$F cross section at $kT=25$ keV

UBERSEDER, Ethan (ID: 135)

20.27 The late-time supernova evolution induced by anisotropic neutrino radiation and the r-process environment

MOTIZUKI, Yuko (ID: 136)

20.28 Nucleosynthesis in AGB stars: Results from the STARS code

STANCLIFFE, Richard (ID: 137)

20.29 E2 and E1 cross section of the $^{12}$C($\alpha$,$\gamma$)$^{16}$O reaction obtained at $E_{cm} = 1.6$ and 1.4 MeV

MAKII, Hiroyuki (ID: 138)

20.30 Signatures of AGB nucleosynthesis in dwarf galaxies

FENNER, Yeshe (ID: 140)
20.31 Single point off-center helium ignitions as origin of some type Ia supernovae
   FORCADA, Ramon; GARCÍA-SENZ, Domingo; JOSÉ, Jordi  (ID: 141)

20.32 Fission recycling in the r-process and formation of the second peak with A ~ 130
   PANOV, Igor  (ID: 142)

20.33 Neutrino-induced nucleosynthesis as a probe into the mechanism of supernovae
   NADYOZHIN, Dmitrij  (ID: 143)

20.34 Nuclear structure properties of neutron-rich r-process isotopes
   WOEHR, Andreas  (ID: 145)

20.35 Measurement of the temperature dependence of 7Be decay in different chemical environments
   LIMATA, Benedicta Normanna  (ID: 146)

20.36 Astrophysics at the future rare isotope accelerator
   SMITH, Michael  (ID: 147)

20.37 Neutron capture during the freeze-out of the r-process
   FAROUQI, Khalil  (ID: 148)

20.38 Astrophysical implications of the $^{139}$La($n,\gamma$) and $^{151}$Sm($n,\gamma$) cross sections measured at n_TOF
   STEFANO, Marrone  (ID: 150)
Thursday, June 29, 10:30-11:30

21.01 New features in the computational infrastructure for nuclear astrophysics
   SMITH, Michael S. (ID: 151)

21.02 Monte Carlo simulations of Type I X-ray burst nucleosynthesis
   ROBERTS, Luke F. (ID: 152)

21.03 High precision measurements along the rp-process path
   GALAVIZ, Daniel (ID: 153)

21.04 On the contribution of classical novae to the 26Al content of the Galaxy
   HERNANZ, Margarita (ID: 155)

21.05 Neutrino-induced fission on nuclei near the r-process paths
   BORZOV, Ivan (ID: 157)

21.06 Study of the $^{10}$B(p,$\alpha$)$^7$Be reaction through the Trojan Horse Method
   GIMENEZ DEL SANTO, Marcelo; GAMEIRO MUNHOZ, Marcelo (ID: 160)

21.07 Neutrino-nucleus cross sections and their role in supernovae
   BLACKMON, Jeff (ID: 161)

21.08 Determination of the astrophysical S-factor for the $^{12}$N(p,$\gamma$)$^{13}$O reaction from the proton transfer reaction $^{14}$N($^{12}$N,$^{13}$O)$^{13}$C
   BANU, Adriana (ID: 163)

21.09 Lifetime of the 4.03 MeV state in $^{19}$Ne and the $^{15}$O($\alpha$,$\gamma$)$^{19}$Ne reaction rate
   KANUNGO, Rituparna (ID: 164)

21.10 Microdynamical effects on momentum distribution in stellar plasmas
   FERRO, Fabrizio; QUARATI, Piero (ID: 165)

21.11 Quantum mechanical ab-initio simulation of the electron screening effect in metal deuteride crystals
   HUKE, Armin (ID: 166)

21.12 About possible explanations to the lines of radioactive elements in the spectrum of Przybylski’s star
   YUSHCHENKO, Alexander; GOPKA, Vera; GORIELY, Stephane (ID: 167)

21.13 Heaviest s-process elements in the atmospheres of barium stars
   GOPKA, Vera F.; YUSHCHENKO, Alexander V.; LAMBERT, David L.; DRAKE, Natalya A. (ID: 169)
21.14 Evidence of Na enhancement in Hyades giants from high-resolution spectroscopy
SCHULER, Simon (ID: 170)

21.15 Multi-channel R-matrix analysis of CNO cycle reactions
SIMPSON, Edward (ID: 172)

21.16 Efficient approximations of neutrino physics for three-dimensional simulations of stellar core collapse
LIEBENDÖRFER, Matthias (ID: 173)

21.17 Abundances of heavy metals and lead isotopic ratios in subluminous B stars
HEBER, Ulrich (ID: 174)

21.18 Direct measurement of stellar neutron capture rates of $^{14}$C and comparison with the Coulomb breakup method
REIFARTH, Rene (ID: 176)

21.19 The roles of nuclear physics during stellar core collapse
HIX, W. Raphael (ID: 177)

21.20 Neutrinos, fission cycling and the r-process
MCLAUGHLIN, Gail (ID: 179)

21.21 Nucleosynthesis in early proton-rich supernova winds
PRUET, Jason; HOFFMAN, Robert; WOOSLEY, Stan; JANKA, Hans-Thomas (ID: 180)

21.22 Compound-nuclear reaction cross sections via surrogate measurements
ESCHER, Jutta (ID: 181)

21.23 Experimental nuclear astrophysics with recoil mass separators
GIALANELLA, Lucio (ID: 182)

21.24 A high resolution spectroscopic study of seven metal-deficient stars
TANNER, John (ID: 183)

21.25 Laminar flame acceleration by neon enrichment in white dwarf supernovae
CHAMULAK, David (ID: 184)

21.26 Closing the cold CNO cycle: A new measurement of $^{19}$F($p,\gamma$)
COUTURE, Aaron (ID: 186)

21.27 Precision mass measurements of neutron-rich nuclei from Ge to Pd and their r-process implications
JOKINEN, Ari (ID: 188)

21.28 Measurement of transfer reactions on neutron-rich fission fragments in inverse kinematics
PAIN, Steven (ID: 189)

21.29 r-process experimental campaign at the National Superconducting Cyclotron Laboratory (NSCL/MSU)
PEREIRA, Jorge (ID: 190)
21.31 Experimental nuclear level densities and interpretation within the microcanonical ensemble
   GUTTORMSEN, Magne (ID: 193)

21.32 Determination of low $^7$Be activity as a tool to measure the $^3$He($\alpha,\gamma$)$^7$Be cross section
   GYÜRKY, György (ID: 196)

21.33 CARINA: a European network for nuclear astrophysics
   ANGULO, Carmen (ID: 198)

21.34 Nucleosynthesis in super AGB stars
   DOHERTY, Carolyn (ID: 199)

22.11 Nuclear reaction and structure databases of the National Nuclear Data Centre
   PRITYCHENKO, Boris (ID: 214)
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 $^{25}$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)
The influence of electron screening on half lives
RUPRECHT, Götz; BUCHMANN, Lothar

Beta-beam born neutrino - an alternative to double beta decay to determine the Majorana neutrino mass
SUJKOWSKI, Ziemowid

Can radiative decay of long-lived particles after the BBN solve the cosmological 6Li problem?
KUSAKABE, Motohiko

Dating of the $^{60}$Fe-peak in a deep sea manganese crust
KNIE, Klaus; WALLNER, Anton

Chemical mixing in galactic BA-type supergiants
FIRNSTEIN, Markus

Neutrino-nucleus inelastic scattering reactions for core-collapse supernovae
SAMPAIO, Jorge; JUODAGALVIS, Andrius

Quantitative spectroscopy of BA-type supergiants: Observational constraints on massive star evolution in the local group
PRZYBILLA, Norbert

Towards global optical alpha potentials: study of the $^{89}\gamma(\alpha,\alpha)^{89}\gamma$ elastic scattering
KISS, Gábor

Mass measurements of radionuclides near the endpoint of the rp-process at SHIPTRAP
VOROBYEV, Gleb

Mass measurements of $^{22}$Mg and $^{26}$Si via (p,t) reactions and Penning traps
CLARK, Jason; PARIKH, Anuj

On the a-particle semi-microscopic optical potential at low energies
AVRIGEANU, Marilena

Time of flight mass measurements in the neutron rich Fe region
ESTRADE, Alfredo

Decay studies at the end of the rp-process
SMITH, Edward

Fragmentation spectra of strange quark matter in a type-II supernova scenario
PAULUCCI, Laura

Level structure of $^{21}$Mg: Nuclear and astrophysical implications
MURPHY, Alexander

Proton induced reaction cross sections on the Ge isotopes
FÜLÖP, Zsolt

Neutron decay array for beta-delayed neutron decay studies
LUROSSO, Giuseppe
22.31 $^{13}\text{C}(\alpha,\text{n})^{16}\text{O}$ reaction rate at stellar temperatures
   \textit{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
   \textit{ASSUNÇÃO, Marlete} (ID: 239)

22.33 Sensitivity of type I X-ray bursts to rp-process reaction rate
   \textit{AMTHOR, Matthew} (ID: 241)

22.34 Neon abundances in B-stars of the Orion association: Solving the solar neon problem?
   \textit{CUNHA, Katia} (ID: 243)
   
   Beta-decay studies of states in $^{12}\text{C}$
   \textit{GADEGAARD PEDERSEN, Solveig} (ID: 255)

22.35 Nucleosynthesis relevant conditions in neutrino-driven supernova outflows
   \textit{ARCONES, Almudena} (ID: 256)

22.36 Electron capture rates for neutron star crusts
   \textit{BECERRIL REYES, Ana Delia} (ID: 267)