

Particle and Nuclear Astrophysics: Parallel Schedule

Parallel 1 May 29: Neutrino Astrophysics

1. 20': **[275]** *Astrophysical neutrinos from IceCube*
Spencer Klein, LBNL
2. 20': **[196]** *Results from ANITA*
Cosmin Deaconu, U Chicago
3. 20': **[197]** *Precision constraints on nuclear and neutrino reactions via BBN*
Mark Paris, LANL
4. 20': **[68]** *Neutrinos from beta processes in presupernovae*
Kelly Patton, U Washington
5. 20': **[159]** *Multi-angle simulations of matter neutrino resonance*
Alexey Vlasenko, NCSU

Parallel 3 May 30: Nuclear Astrophysics

1. 20': **[125]** *Stellar explosions in the lab: Measurements of key nuclear reactions driving nucleosynthesis*
Greg Christian, Texas A&M
2. 20': **[28]** *Nuclear astrophysics underground: Status and future*
Frank Strieder, South Dakota School of M & T
3. 20': **[153]** *Improving nuclear reaction rates with new many-body and fewer-body reaction models*
Ken Nollett, SDSU
4. 20': **[86]** *Probing explosive nucleosynthesis with TwinSol measurements*
Dan Bardayan, U Notre Dame
5. 20': **[94]** *Sensitivity study for the $^{12}\text{C}(a,g)^{16}\text{O}$ astrophysical reaction rate*
Roy Holt, CalTech and ANL

Parallel 6 May 31: Particle Astrophysics

1. 30': **[133]** *Latest results from the AMS experiment on the international space station*
Francesca Giovacchini, CIEMAT/CERN
2. 30': **[360]** *New results and update on ultrahigh energy cosmic rays*
Glennys Farrar, New York U
3. 20': **[85]** *Recent Highlights from the High Altitude Water Cerenkov Observatory*
Andrea Albert, LANL
4. 20': **[87]** *Ice Cube/Deep Core results on neutrino properties using atmospheric neutrinos*
Feifei Huang, Penn State U
5. 20': **[65]** *Recent status and future plan of China JinPing Underground Laboratory*
Qian Yue, Tsinghua U
6. 20': **[326]** *NuSTAR and super-Eddington accretion onto neutron stars*
Murray Brightman, Caltech

Parallel 8 June 1: Neutron Stars

1. 30': **[247]** *Sites of the r-process: supernovae and mergers: Recent successes and current issues*
Chris Fryer, LANL
2. 30': **[176]** *Properties of the binary neutron star merger GW170817*
Ben Lackey, MPI for Gravitational Physics
3. 20': **[177]** *Numerical simulations of neutron star mergers*
Francois Foucart, U New Hampshire
4. 20': **[167]** *Application of chiral forces to nuclear matter and neutron stars*
Christian Drischler, UC Berkeley
5. 20': **[305]** *Studying lanthanide production in r-process nucleosynthesis*
Nicole Vassh, Notre Dame
6. 20': **[173]** *R-process measurements with unstable isotope beams* Alfredo Estrade,
Central Michigan U