

## NPCSM workshop program (4th and 5th weeks)

### November 7 (Monday)

- 14:00-15:00 David Blaschke (Wroclaw)  
"High-mass twin stars as evidence for quark matter in compact stars"

### November 8 (Tuesday) :Mini-workshop "Compact Star Mergers and Nucleosynthesis"

- 9:30-10:20 Takashi Yoshida (Tokyo)  
"Explosive nucleosynthesis of ultra-stripped Type Ic supernovae"
- 10:20-11:10 Tomoya Kinugawa (ICRR)  
"Compact binary remnants of First stars for the gravitational wave source"
- 11:40-12:30 Shinya Wanajo (Sophia U.)  
"Nucleosynthesis in the dynamical ejecta of neutron star mergers"
- 14:00-14:50 Gail McLaughlin (North Carolina)  
"Neutrino flavor transformation in neutron star mergers"
- 14:50-15:40 Kunihito Ioka (YITP)  
"Black Holes in Short GRBs, Macronovae & GW150914"
- 16:10-17:00 Gavin Paul Lamb (ARI,LJMU)  
"On and Off Axis Orphan Afterglow from Low Lorentz Factor Jets ? Candidate Electromagnetic Counterparts to Gravitational Wave Sources"
- 17:00-17:50 Koutarou Kyutoku (RIKEN)  
"Dynamical mass ejection from black hole-neutron star binaries"

### November 9 (Wednesday) :Mini-workshop "Compact Star Mergers and Nucleosynthesis"

- 9:30-10:20 Gabriel Martinez-Pinedo (Darmstadt)  
"Explosive nucleosynthesis of heavy elements: an astrophysical and nuclear physics challenge"
- 10:20-11:10 Kenta Kiuchi (YITP)  
"The fate of strongly magnetized remnant massive neutron stars formed in low mass binary neutron star mergers"
- 11:40-12:30 Kenta Hotokezaka (Hebrew)  
"Radio counterparts to gravitational-wave merger events"
- 14:00-14:50 Friedel Thielemann (Basel)  
"TBA"
- 14:50-15:40 Rodrigo Fernandez (Alberta)  
"Long-term mass ejection from neutron star merger remnant accretion disks"
- 16:10-17:00 Jonas Lippuner (Caltech)  
"r-Process nucleosynthesis in neutron star mergers"
- 17:00-17:50 Jennifer L. Barnes (UC Berkeley)  
"The effect of r-process nucleosynthesis on kilonova observables"

### November 10 (Thursday)

- 14:00-15:00 Sherwood A. Richers (Caltech)  
”*Equation of State Dependence of Gravitational Waves from Rapidly Rotating Core-Collapse*”
- 15:30-16:30 David A. Nichols (Radboud University)  
”*Gravitational-wave memory observables and charges of the extended BMS algebra*”

### November 11 (Friday)

- 14:00-15:00 Ke-Jung Chen (NAOJ)  
”*Multidimensional Simulations of Magnetar-Powered Supernovae*”

### November 14 (Monday)

- 11:30-12:00 Huaiyu Duan (New Mexico)  
”*Collective neutrino oscillations in supernovae*”
- 14:00-15:00 Lecture 1 by Huaiyu Duan (New Mexico)  
”*Understanding collective neutrino oscillations*”
- 15:30-16:30 Lecture 2 by Huaiyu Duan (New Mexico)  
”*Understanding collective neutrino oscillations*”

### November 15 (Tuesday)

- 14:00-15:00 Andre Sieverding (TU Darmstadt)  
”*The neutrino process in Core-Collapse Supernovae*”
- 15:30-16:30 Kohsuke Sumiyoshi (Numazu CT)  
”*Neutrino transfer and nuclear physics (tentative)*”

### November 16 (Wednesday)

- 11:30-12:30 Pablo Cerda-Duran (University of Valencia)  
”*Neutron star magnetospheres*”

### November 17 (Thursday)

- 14:00-15:00 Michael Gabler (Max Planck Institute for Astrophysics)  
”*What can magnetar QPOs tell us about the NS EoS*”
- 15:30-16:30 Jérôme Guilet (Max Planck Institute for Astrophysics)  
”*How to form a millisecond magnetar ? Magnetic field amplification in protoneutron stars*”

### November 18 (Friday)

- 11:30-12:30 Yudai Suwa (YITP)  
”*Supernovae as birth sites of neutron stars*”