

Program

Sunday, January 21, 2017

17:00 – 21:00 Registration

18:30 *BUFFET SUPPER / Informal get together*

20:00 – 21:00 Scientific organizers **Opening and welcome
Kick-off presentation**

Monday, January 22, 2017

07:30 BREAKFAST

08:45 – 09:30 Friedrich Röpke **Simulations of thermonuclear
explosions in white dwarf stars**

09:30 – 09:45 Shing-Chi Leung **Understanding Type Ia supernova
explosion mechanisms by its
nucleosynthesis yield**

09:45 – 10:00 Sabrina Gronow **Sub-Chandrasekhar mass white
dwarfs as Type Ia supernova
progenitors**

10:00 – 10:15 Barnabás Barna **Abundance tomography of Type Ia
Sne**

10:15 – 10:45 *COFFEE BREAK*

10:45 – 11:30 Hans-Thomas Janka **3D core-collapse supernova modeling
and applications to Cas A and other
supernova remnants**

11:30 – 11:45 David Vartanyan **Opacities and rotation in the revival of
the fittest**

11:45 – 12:00 Takami Kuroda **Core collapse of massive stars(11.2-
70Msun) and black-hole formation with
3DGR spectral neutrino transport**

Program

Monday, January 22, 2017

- 12:00 – 12:15 Jérôme Guilet **How to form a millisecond magnetar?
Magnetic field amplification in a
protoneutron star**
- 12:15 – 12:30 Michael Gabler **Young supernova remnants in long-
time, 3D supernova simulations**
- 12:30 **Conference Photo** (in the foyer of the lecture hall)
- 12:35 *LUNCH*
- 14:00 – 14:45 Martin Obergaulinger **Core collapse with rotation and
magnetic fields**
- 14:45 – 15:30 **Poster flash presentations I** (3 min. / 1 slide each)
- 15:30 – 16:00 COFFEE BREAK
- 16:00 – 16:45 Ivo Seitenzahl **Nucleosynthetic fingerprints of
thermonuclear supernova models**
- 16:45 – 17:30 Claudia Travaglio **Multi-d core collapse supernovae and
nucleosynthesis**
- 17:30 – 17:45 Stefan Jorda **About the Wilhelm and Else Heraeus
Foundation**
- 17:45 – 18:30 **Poster session I**
- 19:00 *HERAEUS DINNER*
(cold & warm buffet, free beverages)

Program

Tuesday, January 23, 2017

07:30	<i>BREAKFAST</i>	
08:45 – 09:30	Almudena Arcones	Nucleosynthesis in CCSNe
09:30 – 09:45	William Raphael Hix	Lessons on supernova nucleosynthesis from multi-dimensional models
09:45 – 10:00	Carla Fröhlich	CCSN nucleosynthesis yields across the mass range
10:00 – 10:15	Alexander Heger	Nucleosynthesis in the first supernovae
10:15 – 10:45	<i>COFFEE BREAK</i>	
10:45 – 11:00	Roland Diehl	Gamma-ray measurements from supernovae and their radioactive afterglows
11:00 – 11:45	Paolo Mazzali	Supernova spectral modelling
11:45 – 12:00	Nahiel Wygoda	The physical width-luminosity relation(s) for Type Ia supernovae favour sub-Chandrasekhar and collision models
12:00 – 12:15	Mattia Bulla	Polarization as a test for multi-dimensional explosion models of Type Ia supernovae
12:15 – 12:30	Tamar Faran	Recombination Effects on Supernova Light-Curves
12:30	<i>LUNCH</i>	

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Tuesday, January 23, 2017

14:00 – 14:45 Sergei Blinnikov **Central Engines of superluminous supernovae and their environment**

14:45 – 15:30 **Poster flash presentations II** (3 min. / 1 slide each)

15:30 – 16:00 COFFEE BREAK

16:00 – 16:45 D. John Hillier **Spectral synthesis modelling with CMFGEN**

16:45 – 17:00 Alexey Tolstov **Supernovae from 8-12 solar mass stars : Multicolor light curve simulations**

17:00 – 17:15 Mattias Ergon **Modelling the spectral evolution of supernovae**

17:15 – 17:30 Alexandra Kozyreva **The variety of pair-instability supenovae**

17:30 – 18:15 **Poster session II**

18:15 – 18:30 **Poster award ceremony**

19:00 *DINNER*

Program

Wednesday, January 24, 2017

07:30	<i>BREAKFAST</i>	
08:30 – 09:15	Kate Maguire	Observational constraints on the explosion mechanisms of Type Ia supernovae
09:15 – 10:00	Maryam Modjaz	The spectroscopic connection between superluminous SNe and SN-GRBs
10:00 – 10:30	<i>COFFEE BREAK</i>	
10:30 – 10:45	Jakob Nordin	Supernova physics from spectrophotometric data
10:45 – 11:00	Subhash Bose	Multi-band observations of the closest Type I superluminous supernova 2017egm/Gaia17biu in a "normal" metal rich spiral galaxy
11:00 – 11:15	Brad Tucker	High-cadence light-curves with Kepler, TESS, and GLUV
11:15 – 12:00	Jesper Sollerman	ZTF and supernovae from PTF
12:00	<i>LUNCH</i>	
13:30 – 14:00	Claes Fransson	Summary talk
14:00 – 14:15	Scientific organizers	Final discussion and closing remarks

End of the seminar and FAREWELL COFFEE / Departure

*Please note that there will be **no** dinner at the Physikzentrum on Wednesday evening for participants leaving the next morning.*