

Ringberg Workshop on the Progenitor-Supernova-Remnant Connection

Monday, July 24

12:30 – 14:00	<i>Lunch</i>		
14:00 – 14:10	Hans-Thomas Janka	MPA	Welcome Address
14:10 – 14:35	Justyn Maund	University of Sheffield	Resolved stellar populations as probes of the progenitors of supernovae
14:35 – 15:00	Schuyler Van Dyk	Caltech/IPAC	The Direct Identification of Core-Collapse SN Progenitors
15:00 – 15:25	Emma Beasor	Liverpool John Moores University	The evolution of RSG to SN
15:25 – 15:50	Jorick Vink	Armagh Observatory and Planetarium	SN Progenitor identification from mass loss
15:50 – 16:20	<i>Coffee break</i>		
16:20 – 16:45	Matteo Cantiello	Center for Computational Astrophysics, Flatiron Institute	Local and Global Radiation Hydrodynamics Simulations of Massive Star Envelopes
16:45 – 17:10	Alexander Heger	Monash Centre for Astrophysics	The seeds of supermassive black holes
17:10 – 17:35	Philipp Podsiadlowski	University of Oxford	Neutron-Star and Black-Hole Kicks
17:35 – 18:00	Ryosuke Hirai	Waseda University	The binary companion to the progenitor of iPTF13bvn
18:00 – 18:25	Manos Zapartas	University of Amsterdam	Predicting the Presence of Companions for Stripped-Envelope Core-Collapse Supernovae: The Case of the Broad-Lined Type IC SN 2002AP
18:30	<i>Dinner</i>		

Tuesday, July 25

09:00 – 09:25	Paul Crowther	University of Sheffield	On the spatial distribution of massive stars in star-forming galaxies and inferences for progenitors of ccSNe
09:25 – 09:50	Fabian Schneider	University of Oxford	Influence of binary mass-transfer on pre-supernova stellar structures
09:50 – 10:15	Ben Davies	Liverpool John Moores University	The Red Supergiant Problem, and a reappraisal of the masses of II-P progenitors
10:15 – 10:40	Jacob Jencson	California Institute of Technology	Hunting for the missing supernovae with SPIRITS
10:40 – 11:10	<i>Coffee break</i>		
11:10 – 11:35	Ken'ichi Nomoto	Kavli IPMU, University of Tokyo	Electron capture supernovae from super AGB stars
11:35 – 12:00	Christopher Kochanek	Ohio State University	The LBT Survey for Failed Supernovae and its First Candidate
12:00 – 12:25	Ko Nakamura	Fukuoka University	Systematic features of core-collapse supernova based on multi-D simulations
12:30 – 14:30	<i>Lunch</i>		
14:30 – 14:55	Robert Bollig	MPA	Muon Creation in Supernova Matter Facilitates Neutrino-driven Explosions
14:55 – 15:20	Jerome Guilet	CEA Saclay	How to form a millisecond magnetar? Magnetic field amplification in a protoneutron star
15:20 – 15:45	Martin Obergaulinger	University of Valencia	Core collapse with rotation and magnetic fields: explosions, black holes, magnetars
15:45 – 16:10	Thierry Foglizzo	CEA Saclay	The impact of modest stellar rotation on the asymmetric explosion of massive stars
16:10 – 16:40	<i>Coffee break</i>		
16:40 – 17:05	Tomoya Takiwaki	National Astronomical Observatory of Japan	Rotation aided neutrino driven-explosions
17:05 – 17:30	Remi Kazeroni	MPA	The development of neutrino-driven convection in core-collapse supernovae: 2D vs 3D
17:30 – 17:55	Quintin Mabanta	Florida State University	Effects of Turbulence on the Critical Conditions of Explosion
17:55 – 18:20	Jeremiah Murphy	Florida State University	A Unifying Explosion Condition for Core-collapse Supernova
18:30	<i>Dinner</i>		

Wednesday, July 26

09:00 – 09:25	Kei Kotake	Fukuoka University	Correlation and Directionality of Multimessenger Signals in 3D Core-Collapse Supernova Models
09:25 – 09:50	Haakon Andresen	MPA	How does moderate progenitor rotation affect the gravitational wave signal from core-collapse supernovae?
09:50 – 10:15	Kosuke Sumiyoshi	Numazu College of Technology	2D/3D Core-collapse supernovae explored by 6D Boltzmann neutrino transport
10:15 – 10:40	Oliver Just	RIKEN	Supernova simulations with the ALCAR code
10:40 – 11:10	<i>Coffee break</i>		
11:10 – 11:35	Akira Harada	University of Tokyo	The Rotating Core-Collapse Supernova Simulation with Full Boltzmann Neutrino Transport
11:35 – 12:00	Bernhard Müller	Queen's University Belfast / Monash University	Core-Collapse Supernova Simulations from 3D Progenitor Models
12:00 – 12:25	William Raphael Hix	Oak Ridge National Laboratory	Lessons on the Nucleosynthesis from Multi-dimensional Supernova models
12:30 – 14:00	<i>Lunch</i>		
14:00 – 14:25	Dan Patnaude	Smithsonian Astrophysical Observatory	Connecting Supernova Remnants to Their Explosions and Progenitors
14:25 – 14:50	Ping Zhou	University of Amsterdam	Spatially resolved study of supernova remnant W49B: on its supernova properties and explosion mechanism

14:50 – 15:15	Iair Arcavi	University of California, Santa Barbara	The Impossible Supernova
15:15 – 15:40	Elena Sorokina	Lomonosov Moscow State University	Bumpy Light Curves of Supernovae as Indicators of the Interaction with CSM
15:40 – 16:05	<i>Coffee break</i>		
16:05 – 16:30	Sergei I. Blinnikov	ITEP, Moscow	Central Engines and Environment of Superluminous Supernovae
16:30 – 16:55	Shing-Chi Leung	Kavli IPMU, University of Tokyo	Effects of rotation and metallicity on the pre-collapse evolution of Pulsation Pair-Instability Supernovae
16:55 – 17:20	Alexey Tolstov	Kavli IPMU, University of Tokyo	Superluminous supernova models: from X-ray to near-infrared photometry
17:20 – 17:45	Josefin Larsson	KTH Royal Institute of Technology, Stockholm	Blackbody components in the early afterglows of gamma-ray bursts: new insight into the progenitors
17:45	<i>Castle tour</i>		
18:30	<i>Dinner</i>		

Thursday, July 27

09:00 – 09:25	Annop Wongwathanarat	RIKEN	Long-time three-dimensional core-collapse supernova simulations
09:25 – 09:50	Claudia Travaglio	INAF - Astrophysical Observatory Turin	Multi-d core collapse supernovae nucleosynthesis to forge connections to the chemical enrichment of the cosmos
09:50 – 10:15	Jason Spyromilio	ESO	Supernova 1987A at 30
10:15 – 10:40	Victor Utrobin	ITEP, Moscow	Mixing constraints on the progenitor of supernova 1987A
10:40 – 11:10	<i>Coffee break</i>		
11:10 – 11:35	Claes Fransson	Stockholm University, Oskar Klein Centre	The ejecta and circumstellar interaction of SN 1987A
11:35 – 12:00	Athira Menon	Monash University	Binary mergers and blue supergiants: progenitors of SN 1987A and other peculiar Type-II supernovae
12:00 – 12:25	Lars Bildsten	KITP, University of California, Santa Barbara	Core Collapse Supernovae Light Curves that Incorporate Rayleigh-Taylor Mixing with MESA
12:30 – 14:30	<i>Lunch</i>		
14:30 – 14:55	Roland Diehl	MPE	Gamma ray lines from young SNR
14:55 – 15:20	Christoph Weinberger	MPE	Kinematic constraints of SNe by Ti-44 gamma ray measurements
15:20 – 15:45	Anatoly Iyudin	Lomonosov Moscow State University	What are chances for Cas A being produced by the binary system?
15:45 – 16:15	<i>Coffee break</i>		
16:15 – 18:30	<i>Honoring session for Ewald Müller's retirement</i>		
16:15 – 16:55	Friedrich Thielemann	University of Basel	Supernovae, Magnetic Fields and a few Basel Attempts to Copy Ewald Müller's Activities
16:55 – 17:10	Jose Maria Ibanez	University of Valencia	The Garching-Valencia collaboration: a personal touch
17:10 – 17:50	Miguel-Angel Aloy	University of Valencia	Are relativistic jets the birth cryings of supernova remnants?
17:50 – 18:30	Harald Dimmelmeier		Ewald meets Einstein: A story of general relativistic core collapse, happy PhD research years and a few lessons for life
18:30	<i>Dinner (Bavarian Night)</i>		

Friday, July 28

09:00 – 09:25	Michael Gabler	MPA	From a Supernova towards its remnant with 3D simulations
09:25 – 09:50	Gilles Ferrand	RIKEN	3D simulations of young supernova remnants
09:50 – 10:15	Salvatore Orlando	INAF - Osservatorio Astronomico di Palermo	Connecting Supernova Remnants to their progenitor SN explosions: the Cassiopeia A laboratory
10:15 – 10:40	Satoru Katsuda	Chuo University	Explosion asymmetries anti-correlating with neutron-star kicks in young supernova remnants
10:40 – 11:10	<i>Coffee break</i>		
11:10 – 11:35	Maria Arias de Saavedra Benitez	University of Amsterdam	Cassiopeia A at LOFAR frequencies
11:35 – 12:00	Frederic Vogt	ESO	The multi-faceted MUSE view of 1E 0102.2-7219
12:00 – 12:25	Wolfgang Kerzendorf	ESO	The surviving companion of Cassiopeia A
12:30 – 14:30	<i>Lunch</i>		
14:30 – 18:30	<i>Free afternoon (self-organized excursion)</i>		
18:30	<i>Dinner</i>		

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