

=== Pre-final Program (as of 13 September 2017) ===

The discussion sessions will be updated during the workshop.

=== 1st week (18 - 22 Sep, 2017) ===

- Galactic chemical evolution and abundances - Setting the scene
- Stellar evolution and nucleosynthesis - Massive stars
- Core-collapse SNe

= Monday

10:00-10:30: Coffee Break

10:30-13:40: Morning Talks: Issues of Massive Star Evolution

Langer: Overview of Issues (mass loss, rotation, etc.) [25+15]

Anderson: SNeII: the influence of metallicity, and their use as abundance diagnostics [25+15]

Coffee Break [30 min, 11:50-12:20]

Kotak: Faint, fast, bright, and long-lived transients: what are they telling us? [25+15]

Tominaga: Shock Breakout [25+15]

*** Afternoon Free

= Tuesday

9:00-9:30: Coffee Break

9:30-12:00: Morning Talks: Pre-supernova Evolution and Explosion Mechanism

Limongi: Presupernova evolution and yields of massive stars [25+15]

Burrows: Overview of core-collapse [25+15]

Coffee Break [30 min, 10:50-11:20]

Mueller: Dependence of explosion properties on progenitor structure [25+15]

12:00-13:00: APEC seminar

Podsiadlowski: The formation of massive black-hole binaries: understanding the
Advanced LIGO detections

15:00-15:45: Coffee Break

**15:45-17:15 Afternoon Discussion: Stripped-Envelope SNe and Their Progenitors
(Chair: Bersten)**

Yoon: Massive binary evolution models

Folatelli: Stripped envelope progenitors

Bersten: LC models for Stripped Envelope SNe

17:30-18:30: Free Beer

= Wednesday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: Metal poor stars and GCE

Snedden: Constraining SN physics with Fe-group abundances in very metal-poor stars [25+15]

Christlieb: Constraining the first SN from extremely metal-poor stars [25+15]

Coffee Break [30 min, 10:50-11:20]

Venn: Elemental abundances in dwarf spheroidal galaxies [25+15]

Nomoto: Hypernovae & EMP stars [25+15]

12:50: Conference Phot

15:00-15:45: Coffee Break

15:45-17:15: Afternoon Discussion: EMP stars and First SNe (Chair: Kobayashi)

Meynet: Pop III star evolution and EMP stars

Ishigaki: Metal poor stars and GCE

Heger: short discussion on EMP stars

Banquet

= Thursday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: First Supernova Nucleosynthesis

Heger: Very massive stars (PISN, PPISN, SM) [25+15]

Frolich: Push and EMP stars [25+15]

Coffee Break [30 min, 10:50-11:20]

Hix: Lessons on Supernova Nucleosynthesis from Multi-Dimensional models. [25+15]

Jerkstrand: Nebular spectra [25+15]

15:00-15:45: Coffee Break

15:45-17:30: Afternoon Discussion: Nucleosynthesis and Compact remnants

(Chair: Thielemann)

Thielemann: Stellar origins of the heaviest elements

Janka: 3D CCSN explosion modeling and applications to Cas A and other SN remnants

Tsuruta: Neutron star cooling

Wanajo: R-process nucleosynthesis in neutron star mergers

17:45-18:45: Free Beer

= Friday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: Extreme Explosions and Superluminous Supernovae

Tolstov: Ultraviolet emissions from SLSNe: CSM vs. PISN vs. Magnetar [25+15]

Fryer: GRB observations as probes of Transient Engines and Nuclear Physics [25+15]

Coffee Break [30 min, 10:50-11:20]

Chen: Extreme explosions [25+15]

Blinnikov: CSM Interaction and magnetar models [25+15]

15:00-15:45: Coffee Break

15:45-17:15: Afternoon Discussion: Newly discovered transients (Chair: Maeda)

Sorokina: CSM interaction

Moriya: Ultra-stripped SNe

Tanaka: Gravitational Wave Sources

Fryer: kilonova light-curves

17:30-18:30: Free Beer

=== 2nd week (25 - 29 Sep, 2017) ===

- Stellar evolution and nucleosynthesis - Low-mass stars

- Type Ia SNe
- Galactic chemical evolution and abundances – Applications

=Monday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: AGB, Electron Capture and SN Ia Progenitors

Karakas: AGB stars [25+15]

Nomoto: Electron capture SNe [25+15]

Coffee Break [30 min, 10:50-11:20]

Jones: Electron capture [25+15]

Justham: Binary evolution of SN Ia progenitors [25+15]

15:00-15:45: Coffee Break

15:45-17:15: Afternoon Discussion: SNe at high-z Universe (Chair: Quimby)

Quimby: Observations of SNe (SNe Ia and SLSNe)

Bunker: High-redshift galaxies and star formation with JWST

Dan Kasen: Predicted properties of kilonovae

17:30-18:30: Free Beer

= Tuesday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: SN Ia Progenitor and Environment

Sullivan: SN Ia environment [25+15]

Hachisu: SN Ia progenitor SD scenarios [25+15]

Coffee Break [30 min, 10:50-11:20]

Ruiter: SN Ia progenitor scenario [25+15]

Maguire: Observational constraints on SN Ia progenitors [25+15]

15:00-15:45: Coffee Break

15:45-17:15: Afternoon Discussion: Peculiar SNe Ia (Chair: Foley)

Foley: SN Ia diversity

17:30-18:30: Free Beer

= Wednesday

9:00-9:30: Coffee Break

9:30-12:00: Morning Talks: SN Ia explosion mechanisms

Roepke: Chandra mass explosion models [25+15]

Shen: Double white dwarf double detonation models [25+15]

Coffee Break [30 min, 10:50-11:20]

Seitenzahl: Nucleosynthesis in SNe Ia [25+15]

Ataru Tanikawa: White dwarf merger by SPH simulations [25+15]

12:20: Conference Phot

15:00-15:45: Coffee Break

15:45-17:15: Afternoon Discussion: SN Ia Nucleosynthesis (Chair: Hillebrandt)

Diehl: Gamma-ray lines

Maeda: He detonation

Leung: Nucleosynthesis

Kobayashi: Chemical Evolution

Banquet

= Thursday

9:00-9:30: Coffee Break

9:30-12:00: Morning Talks: SN Ia Light Curves and Spectra Nugent: News

from iPTF [25+15]

Kasen: Light curves and spectra of SNe Ia [25+15]

Coffee Break [30 min, 10:50-11:20]

Aoki: Elemental Abundances in the Local Group [TBC] [25+15]

12:00-13:00: APEC seminar

Matteucci: Galactic Astroarchaeology: Chemical Abundances and Evolution of Galaxies

***** Afternoon Free**

= Friday

9:00-9:30: Coffee Break

9:30-12:40: Morning Talks: Summary and future for SN Ia Study

Kobayashi: GCE and chemo-dynamical simulations

Yasuda: Subaru/HSC Survey

Coffee Break [30 min, 10:50-11:20]

Hillebrandt: Testing SN Ia Explosion Models

Podsiadlowski: Testing SN Ia Progenitor Models

*** Afternoon Free

=====