

DRAFT PROGRAM

2014 ANNUAL SCIENTIFIC CONFERENCE

Supernovae in the Local Universe: Celebrating 10,000 days of Supernova 1987A

10th-15th August Coffs Harbour, NSW, Australia

SUNDAY 10 AUGUST 2014

Time	Item
3:00pm	Registration Desk Opens Jetty Harbour Room
5:00pm	Welcome Drinks Charlie's Decks
	Dinner Delegates own choice

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MONDAY 11 AUGUST 2014

Time	Item
6:30am	Optional Activity Walk – Charlesworth Bay to Korora Bay
7:00am	Breakfast Charlie's Restaurant
7:30am – 8:50am	Registration Desk Open
Welcome	
9:00am	Welcome/Acknowledgement of Country Jetty Harbour Room
9:05am – 9:15am	Welcome and Conference Overview Bryan Gaensler
Session I: 10,000 Day Session Chair: Bryan	ys of Supernova 1987A n Gaensler
9:15am – 9:40am	Dick McCray (invited talk) Supernova 1987A at 10,000 days (25 min presentation)
9:40am- 10:05am	Josefin Larsson (invited talk) The ejecta of SN 1987A at 10,000 days (25 min presentation)
10:05am – 10:20am	Giovanna Zanardo Spectral & morphological analysis of the remnant of Supernova 1987A with ALMA & ATCA (15 min presentation)
10:20am – 10:35am	Mikako Matsuura Herschel and ALMA observations of supernova 1987A (15 min presentation)
10:35am – 11:00am	Claes Fransson (invited talk) Physical Conditions in the SN 1987A Ejecta at 10,000 days (25 min presentation)
11:00am – 11:20am	Group questions and discussions (20 min Q&A)
11:20am – 11:50am	Morning Tea



Session II: Unusual & Unique Objects Session Chair: Stuart Ryder	
11:50am – 12:20pm	Raffaella Margutti (invited talk) Supernova 2009ip: Supernova or imposter? (25 min presentation & 5 min Q&A)
12:20pm – 12:35pm	Fang Yuan Locations of Peculiar Supernovae as a Diagnostic of Their Origins (12min presentation & 3 min Q&A)
12:35pm – 1:05pm	Nathan Smith (invited talk) Pre-Supernova Eruptions and the Fates of Massive Stars (25 min presentation & 5 min Q&A)
1:05pm – 2:30pm	Lunch
Session Chair: Jerer 2:30pm – 3:00pm	Avishay Gal-Yam (invited talk) Supernova flash spectroscopy: a new observational window into stellar death (25 min presentation & 5 min Q&A)
3:00pm – 3:15pm	Nadejda Blagorodnova Gaia: A Supernova Discovery Machine (12 min presentation & 3 min Q&A)
3:15pm- 3:30pm	Brad Tucker KEGS - The Kepler Extra-Galactic Survey (12 min presentation & 3 min Q&A)
3:30pm	Afternoon Tea
3:35pm – 5:30pm	Poster Session & Social Gathering/Supernova Bingo



TUESDAY 12 AUGUST 2014

Time	Item	
6:30am	Optional Activity Lap Pool – swimming group	
7:00am	Breakfast Charlie's Restaurant	
8:55am – 9:00am	Announcements	
Session IV: Nearby C Session Chair: Chris	Core Collapse Supernovae tina Thöne	
9:00am – 9:30am	Stephen Smartt (invited talk) Observational constraints on progenitors of nearby supernovae (25 min presentation & 5 min Q&A)	
9:30am – 9:45am	Ori Fox Uncovering the Putative B-Star Binary Companion of the SN 1993J Progenitor (12 min presentation & 3 min Q&A)	
9:45am – 10:00am	Melina Bersten The First Evidence of a Binary Progenitor for a Type Ib Supernova (12 min presentation & 3 min Q&A)	
10:00am – 10:15am	Michael Bietenholz Two Newly-Resolved Supernovae: SN 2011dh and SN 1996cr (12 min presentation & 3 min Q&A)	
10:15am – 10:30am	Isaac Shivvers Young Type IIn Supernova 1998S in High Resolution (12 min presentation & 3 min Q&A)	
10:30am – 11:00am	Morning Tea	
Session V: Stellar Populations, Core Collapse and Progenitors Session Chair: Kate Maguire		
11:00am – 11:30am	Paul Crowther (invited talk) Observations of massive star populations in nearby galaxies (25 min presentation & 5 min Q&A)	
11:30am – 12:00pm	Joe Anderson (invited talk) Statistical studies of supernova environments 25 min presentation & 5 min Q&A)	



12:00pm - 12:15pm	Ben Davies How Cool Are Red Supergiants? Obtaining accurate masses for SN-IIP progenitors (12 min presentation & 3 min Q&A)
12:15pm - 12:30pm	Maryam Modjaz CfA Spectra of 73 Stripped Supernovae & Implications for the Spectroscopic SN-GRB Connection (12 min presentation & 3 min Q&A)
12:30pm – 2:00pm	Lunch
Session VI: Stellar Po Session Chair: Schu	opulations, Core Collapse and Progenitors (continued) yler Van Dyk
2:00pm – 2:30pm	Selma de Mink (invited talk) Binary Interactions: Theory And Population Synthesis (25 min presentation & 5 min Q&A)
2:30pm – 3:00pm	Sung-Chul Yoon (invited talk) Progenitors of Type Ib/c supernovae (25 min presentation & 5 min Q&A)
3:00pm – 3:15pm	John Eldridge Unveiling the progenitors of type Ib/c Supernovae (12 min presentation & 3 min Q&A)
3:15pm – 3:30pm	Frederica Bianco Probing the progenitors channels of stripped SN with the CfA SN sample (12 min presentation & 3 min Q&A)
3:30pm – 4:00pm	Afternoon Tea



Session VII: Stellar Populations, Core Collapse and Progenitors (continued) Session Chair: Maryam Modjaz	
4:00pm – 4:15pm	Anders Jerkstrand Progenitor masses of Type IIb supernovae from nebular phase spectral modelling (12 min presentation & 3 min Q&A)
4:15pm – 4:30pm	Alceste Bonanos A survey of dusty, evolved, massive stars in the nearby Universe (12 min presentation & 3 min Q&A)
4:30pm – 4:45pm	Morgan Fraser Solving the red supergiant problem? (12 min presentation & 3 min Q&A)
4:45pm – 5:15pm	Thierry Foglizzo (invited talk) The explosion mechanism of core collapse supernovae (25 min presentation & 5 min Q&A)
6:30pm	Dinner BBQ by the Beach, Charlesworth Bay



WEDNESDAY 13 AUGUST 2014

Time	Item
6:30am	Optional Activity Tennis
7:00am	Breakfast Charlie's Restaurant
8:55am – 9:00am	Announcements
Session VIII: 10,000 l Session Chair: Liste	Days of Supernova 1987A (continued) r Staveley-Smith
9:00am – 9:15am	Ivo Seitenzahl The Light Curve of SN 1987A Revisited: Constraining Production Masses Of Radioactive Nuclides (12 min presentation & 3 min Q&A)
9:15am – 9:30am	Dick Manchester 9999 Days of Radio Observations of SN 1987A (12 min presentation & 3 min Q&A)
9:30am – 9:45am	Kari Frank New Chandra ACIS Observations of SN 1987A (12 min presentation & 3 min Q&A)
9:45am – 10:00am	Paul Lasky Gravitational waves from a possible neutron star in the supernova remnant 1987A (12 min presentation & 3 min Q&A)
10:00am – 10:30am	Morning Tea
Session IX: Unusual Session Chair: Chris	& Unique Objects (continued) Lidman
10:30am – 11:00am	Ferdinando Patat (invited talk) Spectropolarimetry and Asphericity of Supernovae (25 min presentation & 5 min Q&A)
11:00am – 11:15am	Maria Drout Rapidly-Evolving and Luminous Transients from Pan-STARRS1 (12 min presentation & 3 min Q&A)
11:15am - 11:30am	lo Kleiser Rapidly Fading Supernovae from Massive Star Explosions (12 min presentation & 3 min Q&A)



	Dinner Own Choice
2:15pm	Free Afternoon Social Program – optional activities: Bushwalking (free) Big Banana (\$15/person) Golf (\$27/person) Camel Rides (??? additional cost)
12:15pm – 2:00pm	Lunch
12:00pm -12:15pm	lair Arcavi Transients in the SN - SLSN Gap (12 min presentation & 3 min Q&A)
11:45am -12:00pm	Andy Howell Superluminous supernovae from SNLS (12 min presentation & 3 min Q&A)
11:30am – 11:45am	Alexandra Kozyreva Observational properties of low-redshift pair instability supernovae (12 min presentation & 3 min Q&A)



THURSDAY 14 AUGUST 2014

Time	Item		
6:30am	Optional Activity Beach Volley Ball		
7:00am	Breakfast Charlie's Restaurant		
8:55am – 9:00am	Announcements		
	Session X: Type la Supernovae and Their Progenitors Session Chair: Ken'ichi Nomoto		
9:00am – 9:30am	Fritz Roepke (invited talk) Type la supernova models compared to local events (25 min presentation & 5 min Q&A)		
9:30am – 10:00am	Ashley Ruiter (invited talk) White Dwarf Binaries and Type Ia Progenitors (25 min presentation & 5 min Q&A)		
10:00am – 10:15am	Ken Shen Double detonation Type Ia supernovae from double white dwarf progenitors (12 min presentation & 3 min Q&A)		
10:15am – 10:30am	John Hillier Time-dependent Radiative Transfer Modelling of Supernovae Spectra (12 min presentation & 3 min Q&A)		
10:30am – 11:00am	Morning Tea		
Session XI: Type Ia S Session Chair: Noam	Supernovae and Their Progenitors (continued) n Soker		
11:00am – 11:15am	Marten van Kerkwijk Normal type la supernovae from white dwarf mergers (12 min presentation & 3 min Q&A)		
11:15am – 11:30am	Richard Scalzo The Range of Ejected Masses in Type Ia Supernovae (12 min presentation & 3 min Q&A)		
11:30am – 11:45am	Kate Maguire Searching for progenitor signatures in Type Ia supernova spectra (12 min presentation & 3 min Q&A)		



3:00pm – 3:15pm	Spitzer Observations of the Type Ia Supernova Remnant N103B: A Type Ia with CSM Interaction? (12 min presentation & 3 min Q&A) Kazimierz Borkowski
	Brian Williams
2:45pm – 3:00pm	Wolfgang Kerzendorf Companions of Supernovae (12 min presentation & 3 min Q&A)
2:30pm – 2:45pm	You-Hua Chu Type la Supernova Remnants in the Large Magellanic Cloud (12 min presentation & 3 min Q&A)
Session Chair: Marg 2:00pm – 2:30pm	Carles Badenes (invited talk) The Physics of Young Supernova Remnants (25 min presentation & 5 min Q&A)
12:30pm - 2:00pm Session XII: Superno	Lunch ova Remnants and Historical Supernovae
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12:15pm - 12:30pm	Curtis McCully The Progenitor System of the Type lax SN 2012Z (12 min presentation & 3 min Q&A)
12:00pm - 12:15pm	Ryan Foley Extensive Multi-wavelength Observations of SN 2014J in M82 Indicate Reddening and Circumstellar Scattering by Typical Dust (12 min presentation & 3 min Q&A)
	SN 2012fr and High-Velocity Features in Type Ia Supernovae (12 min presentation & 3 min Q&A)



Session XIII: Supernova Remnants and Historical Supernovae (continued) Session Chair: Alceste Bonanos	
4:00pm – 4:30pm	Armin Rest (invited talk) An Astronomical Time Machine: Light Echoes from Historic Supernovae and Stellar Eruptions (25 min presentation & 5 min Q&A)
4:30pm – 5:00pm	Haley Gomez (invited talk) Dust in Young Supernova Remnants (25 min presentation & 5 min Q&A)
5:00pm – 5:15pm	Tea Temim Supernovae as drivers of dust evolution in the Magellanic Clouds (12 min presentation & 3 min Q&A)
6:30pm	Conference Dinner Dinner Speaker - Brian Schmidt



FRIDAY 15 AUGUST 2014

Time	Item
7:30am	Optional Activity Pilates
7:00am	Breakfast Charlie's Restaurant
9:25am – 9:30am	Announcements
Session XIV: 10,000 Session Chair: You-h	Days of Supernova 1987A; 23,741 Days of Bob Hua Chu
9:30am – 9:50am	Robert Kirshner (invited talk) Hot Spots and Shock Stops in SN 1987A (20min presentation)
9:50am – 10:30am	Supernova 1987A Panel Session chaired by Robert Kirshner (40 min general discussion and Q&A)
10:30am-11:00am	Morning Tea
Session XV: Future I Session Chair: TBC	nstruments and Techniques
11:00am – 11:20am	Bernhard Mueller (invited talk) Neutrinos and Gravitational Waves - What will we learn from a Galactic Supernova? (17 min presentation & 3 min Q&A)
11:20am – 11:40am	Kate Scholberg (invited talk) Neutrinos from Supernovae: what the Next Burst will Bring (17 min presentation & 3 min Q&A)
11:40am – 11:55am	Sarah Gossan Observing Gravitational Waves from the Next Nearby Core-Collapse Supernova (12 min presentation & 3 min Q&A)
11:55am - 12:15pm	Tara Murphy (invited talk) Explosive Variables and Transients with MWA, ASKAP and SKA (17 min presentation & 3 min Q&A)
12:15pm – 1:45pm	Lunch



Session XVI: Future Instruments and Techniques (continued) Session Chair: TBC	
1:45pm – 2:05pm	George Sonneborn (invited talk) Nearby Supernovae and the James Webb Space Telescope (17 min presentation & 3 min Q&A)
2:05pm – 2:20pm	Russell Cannon The next 1987A (12 min presentation & 3 min Q&A)
2:20pm – 2:50pm	Conference Summary Emily Levesque and Stuart Sim (30 mins)
2:50pm	CLOSE