



## PROGRAM

# ACAMAR5: AUSTRALIA-CHINA WORKSHOP ON ASTROPHYSICS

2<sup>nd</sup> – 4<sup>th</sup> April 2019

RACV Healesville Country Club

### MONDAY 1 APRIL 2019

Time	Item
3:00pm – 8:00pm	Registration Desk Opens

### TUESDAY 2 APRIL 2019

Time	Item
8:30am – 9:00am	Registration Desk Opens
9:00am – 9:10am	WELCOME LOC Announcements
<b>Session 1: COUNTRY UPDATES</b>	
<b>Session Chair:</b>	
<b>Location:</b>	
9:10am – 9:35am	Australia (Prof. Rachel Webster) (20 min presentation + 5 mins Q&A)
9:35am – 10:00am	China (Prof. Suijian Xue) (20 min presentation + 5 mins Q&A)
10:00am – 10:30am	<b>Morning Tea</b>
<b>Session 2: RADIO ASTRONOMY</b>	
<b>Session Chair:</b>	
<b>Location:</b>	
10:30am – 10:50am	Bo Qin and Xiangping Wu (invited talk) <i>SKA in China</i> (15 min presentation + 5 mins Q&A)

10:50am – 11:05am	Tasso Tzioumis <i>Radio Astronomy Technologies at CSIRO</i> (12 min presentation + 3 mins Q&A)
11:05am – 11:20am	Melanie Johnston-Hollitt <i>Future Prospects for Joint Australia-China Cooperation in the Context of the Murchison Widefield Array</i> (12 min presentation + 3 mins Q&A)
11:20am – 11:40am	Ming Zhu and Di Li (invited talk) <i>FAST science update/Review of FAST HI Survey Plan</i> (15 min presentation + 5 mins Q&A)
11:40am – 11:55am	Andrew Cameron <i>Updated results from the Parkes/FAST collaboration</i> (12 min presentation + 3 mins Q&A)
11:55am – 12:10pm	George Hobbs <i>Early Science results from the Parkes ultra-wide bandwidth receiver</i> (12 min presentation + 3 mins Q&A)
12:10pm – 12:25pm	Clancy James <i>How to detect ultra-high-energy cosmic rays with FAST</i> (12 min presentation + 3 mins Q&A)
12:25pm – 12:40pm	Ramesh Bhat <i>FAST-MWA Synergies in Pulsar and Fast Radio Burst Science</i> (12 min presentation + 3 mins Q&A)
<b>12:40pm – 1:30pm</b>	<b>Lunch</b>
<b>Session 3: STUDENT TALKS</b>	
<b>Session Chair:</b>	
<b>Location:</b>	
1:30pm – 1:40pm	Boyang Liu <i>Gas Temperature Demography in the Magellanic Clouds</i> (8 min presentation + 2 mins Q&A)
1:40pm – 1:50pm	Mengyao Xue <i>Southern Pulsar Census and Polarimetric Studies with the MWA</i> (8 min presentation + 2 mins Q&A)
1:50pm – 2:00pm	Lincheng Li <i>HI intensity mapping with a phased array feed</i> (8 min presentation + 2 mins Q&A)
2:00pm – 2:10pm	Hongwei Xi <i>The HI mass function in Arecibo Ultra-Deep Survey</i> (8 min presentation + 2 mins Q&A)
2:10pm – 2:20pm	Lei Zhang <i>Early Results with FAST Relating to Pulsars</i> (8 min presentation + 2 mins Q&A)

2:20pm – 2:30pm	Songbo Zhang <i>Single pulse search with Parkes data archive</i> (8 min presentation + 2 mins Q&A)		
<b>Session 4: RADIO ASTRONOMY (CONTD)</b>			
<b>Session Chair:</b>			
<b>Location:</b>			
2:30pm – 2:45pm	Ningyu Tang <i>HI Observations of Planck Catalogue of Galactic Cold Clumps (PGCC) with FAST</i> (12 min presentation + 3 mins Q&A)		
2:45pm – 3:00pm	Hao Shan <i>A novel geometric wavelet based radio dynamic range imaging method</i> (12 min presentation + 3 mins Q&A)		
<b>3:00pm – 3:30pm</b>	<b>Afternoon Tea</b>		
<b>Session 5: DATA AND CENTRES</b>			
<b>Session Chair:</b>			
<b>Location:</b>			
3:30pm – 3:50pm	Quan Guo (invited talk) <i>Chinese SKA regional centre progress and early science preparation</i> (15 min presentation + 5 mins Q&A)		
3:50pm – 4:05pm	Peter Quinn <i>SKA Regional Centres - status and developments</i> (12 min presentation + 3 mins Q&A)		
4:05pm – 4:20pm	Chenzhou Cui <i>IVOA and China-VO</i> (12 min presentation + 3 mins Q&A)		
4:20pm – 4:35pm	Zhong Wang <i>Five Years of China-Chile Cooperation in Astronomy</i> (12 min presentation + 3 mins Q&A)		
4:35pm – 4:50pm	Steven Tingay <i>A China - Australia Joint Research Centre in radio astronomy and the SKA</i> (12 min presentation + 3 mins Q&A)		
4:50pm – 5:10pm	Jintao Luo (invited talk) <i>Pulsar activities at NTSC's 40-m radio telescope</i> (15 min presentation + 5 mins Q&A)		
5:10pm – 6:00pm	<b>BREAKOUT: JOINT CENTRES</b> (Chairs:) Location:	<b>BREAKOUT: RADIO INSTRUMENTATION AND JOINT SURVEYS</b>	<b>BREAKOUT: ANTARCTIC ASTRONOMY</b> (Chairs:)

		(Chairs : ) Location:	Location:
<b>6:30pm – 8:00pm</b>	<b>Dinner</b>		

## WEDNESDAY 3 APRIL 2019

Time	Item
6:30am	<i>Optional Activity – Morning walk</i>
8:00am – 8:50am	<b>Registration Desk Open</b>
8:55am	<b>LOC Announcements</b>
<b>Session 6: GRAVITATIONAL WAVES AND TRANSIENTS</b> <b>Session Chair:</b> <b>Location:</b>	
9:00am – 9:20am	Paul Lasky (invited talk) <i>A matter machine - the science case for a high-frequency gravitational-wave observatory</i> (15 min presentation + 5 min Q&A)
9:20am – 9:35am	Roberto Soria <i>NAOC's SiTian all-sky monitoring network: a new vision of the transient optical sky</i> (12 min presentation + 3 min Q&A)
9:35am – 9:50am	Xingjiang Zhu <i>Pulsars and gravitational waves</i> (12 min presentation + 3 min Q&A)
9:50am – 10:05am	Ilya Mandel <i>The astrophysical science case for a decihertz gravitational-wave detector</i> (12 min presentation + 3 min Q&A)
10:05am – 10:20am	Eric Thrane <i>Binary Black Hole Population Properties: the Second Observing Run and Beyond</i> (12 min presentation + 3 min Q&A)
<b>10:20am – 10:50am</b>	<b>Morning Tea</b>
<b>Session 7: TRANSIENTS, ANTARCTIC, HIGH ENERGY AND SPACE SCIENCE</b> <b>Session Chair:</b> <b>Location:</b>	
10:50am – 11:10am	Gavin Rowell (invited talk) <i>GHz to THz Radio and Tera-eV gamma-ray Astronomy: Their Intimate Connection</i> (15 min presentation + 5 min Q&A)
11:10am – 11:30am	Duncan Galloway (invited talk) <i>X-ray Binaries</i> (15 min presentation + 5 min Q&A)

11:30am – 11:50am	Xuefei Gong (invited talk) <i>Kunlun Dark Universe Survey Telescope</i> (15 min presentation + 5 min Q&A)
11:50am – 12:10pm	Jeff Cooke (invited talk) <i>The Deeper, Wider, Faster program: the ongoing novel, real-time, multi-wavelength fast transient program</i> (15 min presentation + 5 min Q&A)
12:10pm – 12:30pm	Michele Trenti (invited talk) <i>Astronomy with space telescopes in the next decade: From flagship missions to CubeSats</i> (15 min presentation + 5 min Q&A)
<b>12:30pm – 1:30pm</b>	<b>Lunch</b>
<b>Session 7: TRANSIENTS, ANTARCTIC, HIGH ENERGY AND SPACE SCIENCE (CONTD)</b>	
<b>Session Chair:</b>	
<b>Location:</b>	
1:30pm – 1:50pm	Xuefeng Wu (invited talk) <i>Fast radio bursts from primordial black hole binaries coalescence</i> (15 min presentation + 5 min Q&A)
1:50pm – 2:05pm	Benjamin McKinley <i>Simulating observations from a lunar-orbiting interferometer</i> (12 min presentation + 3 min Q&A)
2:05pm – 2:20pm	Bin Ma <i>Preliminary results of atmospheric seeing at Dome A, Antarctica</i> (12 min presentation + 3 min Q&A)
2:20pm – 2:35pm	Fayin Wang <i>FRBs: physical models and cosmological applications</i> (12 min presentation + 3 min Q&A)
<b>Session 8: GALAXIES AND OPTICAL INSTRUMENTATION</b>	
<b>Session Chair:</b>	
<b>Location:</b>	
2:35pm – 2:55pm	Michelle Cluver (invited talk) <i>HOGS in Space: The Habitat of Galaxies Surveys</i> (15 min presentation + 5 min Q&A)
<b>2:55pm – 3:25pm</b>	<b>Afternoon Tea</b>

**Session 8: GALAXIES AND OPTICAL INSTRUMENTATION (CONTD)**

**Session Chair:**

**Location:**

3:25pm – 3:45pm	Deanne Fisher (invited talk) <i>Clumpy, Turbulent Galaxies in the Local Universe</i> (15 min presentation + 5 min Q&A)	
3:45pm – 4:05pm	Chao-Wei TSAI (invited talk) <i>Identifying Outlier Galaxies Using Multi-Wavelength Databases</i> (15 min presentation + 5 min Q&A)	
4:05pm – 4:25pm	Xiangyan Yuan (invited talk) <i>Introduction on the Chinese 12-m optical/infrared telescope</i> (15 min presentation + 5 min Q&A)	
4:25pm – 4:40pm	Lei Jia <i>New TEC CCD cameras of LAMOST</i> (12 min presentation + 3 min Q&A)	
4:40pm – 4:55pm	Jian Wang <i>Progress of CSTAR2 Camera and NIR sky brightness measurement in Antarctica</i> (12 min presentation + 3 min Q&A)	
4:55pm – 6:00pm	CLOSED BREAKOUT: <b>ACAMAR EXECUTIVE</b> (Chairs: Schmidt, Wang) Location:	OTHER INFORMAL BREAKOUTS Various locations
<b>6:30pm – 9:00pm</b>	<b>WORKSHOP WELCOME DINNER</b>	

## THURSDAY 4 APRIL 2019

Time	Item
6:30am	<i>Optional Activity – Morning Walk</i>
8:00am – 8:50am	<b>Registration Desk Open</b>
8:55am – 9:00am	<b>LOC Announcement</b>
<b>Session 9: STELLAR AND PLANETARY SCIENCE</b> <b>Session Chair:</b> <b>Location:</b>	
9:00am – 9:20am	Jeremy Mould (invited talk) <i>Galactic Calibration of the Tip of the Red Giant Branch</i> (15 min presentation + 5 min Q&A)
9:20am – 9:40am	Ji-Lin Zhou (invited talk) <i>Exoplanet Searching With AST3 and Beyond</i> (15 min presentation + 5 min Q&A)
9:40am – 10:00am	Chris Tinney (invited talk) <i>Veloce and Exoplanetary Science in the post-TESS era</i> (15 min presentation + 5 min Q&A)
10:00am – 10:15am	TBD (12 min presentation + 3 min Q&A)
10:15am – 10:30am	Renu Sharma <i>Women in astronomy</i> (12 min presentation + 3 min Q&A)
<b>10:30am – 11:00am</b>	<b>Morning Tea</b>
<b>Session 10: Panel Discussion and Closing Remarks</b> <b>Session Chair:</b> <b>Location:</b>	
10:00am – 11:00am	Reports from formal and informal Break-Out Sessions
11:00am – 12:00pm	PANEL DISCUSSION
12:00pm – 12:15pm	CLOSING REMARKS
<b>12:15pm – 1:30pm</b>	<b>LUNCH</b>