

6th International PHISCC Workshop - Final program

(v7, 13 June 2013)

Venue: CAASTRO/SiFA building, University of Sydney, (44 Rosehill St Redfern, NSW 2016)

Web page: <http://www.caaastro.org/event/2013/phisc>**Wednesday 19 June 2013**

08:30 – 09:00 Registration and conference dinner payments

Welcome		
09:00 - 09:10		Welcome and workshop outline
Session 1 – Update on SKA and SKA Pathfinder/Precursor telescopes		
<i>Chair: Elaine Sadler</i>		
09:10– 09:30	Minh Huynh	Latest Developments on the SKA
09:30– 09:45	Tim Shimwell	ASKAP
09:45– 10:00	Claude Carignan	Meerkat
10:00 – 10:15	Tom Oosterloo	Apertif
10:15 – 10:30	Ming Zhu	FAST
Coffee Break 10:30-11:00		
Session 2 – HI and galaxy evolution (I)		
<i>Chair: Claude Carignan</i>		
11:00 – 11:30	Baerbel Koribalski *	Gas in galaxies
11:30 – 12:00	Tom Jarrett *	Fuelling the Star-Making Machine: Exploring past to present star formation in Local Volume galaxies
12:00 – 12:20	Ed Elson	Quantifying star formation in LVHIS - a WISE perspective
12:20 – 12:40	Kelley Hess	Evolution in the HI Gas Content of Galaxy Groups: Pre-processing and Mass Assembly in the Current Epoch
Lunch break 12:40–13:40		
Session 3 – HI techniques and future directions		
<i>Chair: Tom Oosterloo</i>		
13:40 – 14:00	Lisa Harvey-Smith	Report from the HI RFI workshop
14:00 – 14:20	Thijs van der Hulst	Challenges for the analysis of future HI surveys
14:20 – 14:40	Tobias Westmeier	SoFiA: The new HI source finding pipeline
14:40 – 15:00	Oleg Smirnov	Dr Sidelobes: How I learned to stop worrying and love simulations
Coffee Break 15:00-15:30		
Session 4 – Panel discussion of SKA1 Baseline Design		
<i>Panel-Tom Oosterloo, Lister Staveley-Smith, Minh Huynh</i>		
15:30 – 15:45	Minh Huynh	Introduction to SKA1 Baseline design
15:45 – 16:45		Discussion and recommendations
PHISCC closed committee meeting/telecon (Boardroom)		
17:00 – 19:00		SKA HI Pathfinders Coordination Committee, members (and observers) only

Thursday 20 June 2013

Session 5 – Galaxy velocity fields and kinematics (I)

Chair: Scott Croom

09:00– 09:30	Lisa Fogarty *	Velocity Fields with SAMI
09:30– 10:00	Geraint Lewis *	The Velocity Function: SAMI's view of the Universe
10:00 – 10:30	Kristine Spekkens *	DiskFit: A Model-Based Approach to Measuring Disk Galaxy Structure

Coffee Break 10:30-11:00

Session 6 – HI and galaxy evolution (II)

Chair: Baerbel Koribalski

11:00 – 11:30	Jacqueline van Gorkom *	CHILES, a VLA HI deep field
11:30 – 11:50	Attila Popping	HI source finding using optical surveys
11:50 – 12:10	Laura Hoppmann	Deep 21-cm HI observations with the Arecibo Telescope
12:10 – 12:30	Ivy Wong	Large-scale HI streams

Lunch break 12:30-13:30

Session 7 –Galaxy velocity fields and kinematics (II)

Chair: Lisa Fogarty

13:30 – 14:00	Paolo Serra *	Kinematically misaligned HI in early-type galaxies
14:00 – 14:20	Claude Carignan	First HI Observations with KAT-7
14:20 – 14:40	Peter Kamphuis	Automated Tilted Ring Fitting of the Extremes
14:40 – 15:00	Se-Heon Oh	WALLABY kinematic parameter extraction: A sub-pipeline for 2D tilted-ring fits

Coffee Break 15:00-15:30

Session 8 – HI surveys, peculiar velocities and cosmology

Chair: Lister Staveley-Smith

15:30 – 15:50	Ming Zhu	Large scale HI surveys with the future FAST telescope
15:50– 16:10	Chris Springob	WALLABY and the next generation of galaxy peculiar velocity surveys
16:10 – 16:30	Tao Hong	2MASS Tully-Fisher Survey
16:30 – 16:50	Danail Obreschkow	Tully-Fisher science without optical counterparts
16:50 – 17:10	Scott Meyer	HI stacking and the Tully-Fisher Relation

18:30 **Conference dinner** (Rubyo's Restaurant, 18-20 King Street Newtown)

Friday 21 June 2013

Session 9 – HI absorption lines and stacking		
<i>Chair: Martin Meyer</i>		
09:00– 09:20	Jacinta Delhaize	Detection of HI in distant galaxies using spectral stacking
09:20– 09:40	Jonghwan Rhee	HI gas measurement of field galaxies at $z \sim 0.1$ and 0.2 using HI stacking technique
09:40 – 10:00	Natasha Maddox	Comparison of HI and optical redshifts of galaxies - The impact of redshift uncertainties on spectral line stacking
10:00 - 10:20	James Allison	A search for 21cm absorption in the HI Parkes All-Sky Survey
10:20 – 10:40	Stephen Curran	Observational Considerations in the Search For Redshifted Atomic and Molecular Absorption
Coffee Break 10:40-11:10		
Session 10 – HI in galaxy disks		
<i>Chair: Tom Jarrett</i>		
11:10 – 11:30	Aeree Chung	Dynamics of Ram Pressure Stripped Gas Disks
11:30 – 11:50	Sarah Reeves	A search for intervening HI absorption in HIPASS galaxies
11:50 – 12:10	Moses Mogotsi	Probing the kinematics of the SINGG-SUNGG star forming galaxies
Session 11 – Summary and next steps		
<i>Chair: Tom Jarrett</i>		
12:10 – 12:40	Lister Staveley-Smith *	Conference summary and next steps for PHISCC
Lunch break 12:40-13:30		
SIFA Astrophysics seminar		
14:00 – 15:00	Rob Crain	Eagle: Evolution and Assembly of GaLaxies and their Environments