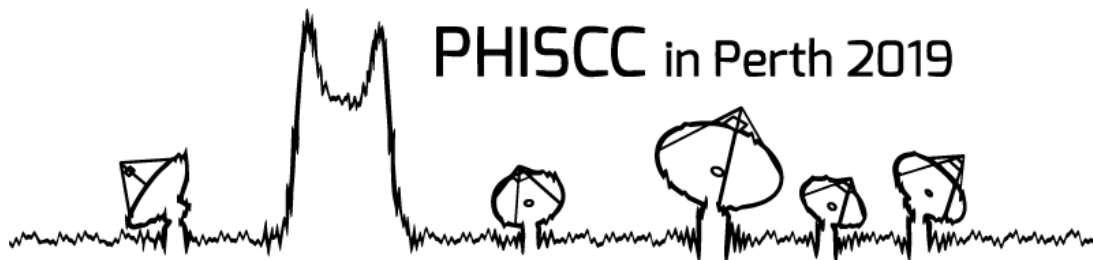


PHISCC in Perth Programme (version 2.6)



Twitter hashtag #PHISCC

Poster presentations (11-13 Feb):

- 1) Xinkai Chen (USTC, China): **Assembly of galactic bulges and discs: indications from HI scaling relations**
- 2) Helga Denes (ASTRON): **Dark gas around the Chamaeleon molecular cloud**
- 3) Ed Elson (UWC): **Uncertainties in HI stacking experiments**
- 4) Bradley Frank (SARAO): **Science Processing of MeerKAT Data at IDIA and SARAO**
- 5) Yu Gao (PMO): **From HI to the dense star-forming molecular gas in galaxies**
- 6) Marcin Glowacki (IDIA/UWC): **Incorporating observational effects to galaxy simulations for MeerKAT surveys**
- 7) Baerbel Koribalski (CSIRO): **ASKAP & WALLABY update**
- 8) Boyang Liu (ICRAR/UWA): **HI absorption study of LMC**
- 9) Gerhard Meurer (ICRAR/UWA): **Stability: the heart of disk galaxy scaling relations**
- 10) Nickolas Pingel (ANU): **Assessing the Imaging of Early GASKAP Data**
- 11) Anastasia Ponomoreva (RSAA/ANU): **Detailed HI distribution and kinematics of S0 galaxy NGC 5102: fuelling of the nuclear starburst**
- 12) Toky Randriamampandry (KIAA/Peking): **The influence of bars on the kinematics of disk galaxies**
- 13) Kristof Rozgonyi (ICRAR/UWA): **Pixelated preconditioning in Radio Interferometric Imaging**
- 14) Chenoa Tremblay (CSIRO): **A search for molecular gas**

Monday 11 Feb 2019

Start time	Speaker	Title
08:15	Registration check-in	Collection of conference coffee mug & nametags
08:45	UWA (Robyn Owens; UWA DVCR)	Welcome to University of Western Australia opening address
08:55	Organisers	Workshop logistics announcements
CHAIR:	M. Verheijen	<i>Theme: Updates from SKA facility & HI working group</i>
09:00	Jeff Wagg	SKA update (20 min presentation+5 min questions)
09:25	Lourdes Verdes Montenegro/ Sarah Blyth	HI-SKA Science Working Group (20 min presentation+5 min questions)
		<i>Theme: Blind surveys</i>
09:50	Ming Zhu	FAST (20 min presentation + 5 min questions)
10:15	Bo Zhang	Status Report on FAST Extragalactic HI Survey Data Reduction Pipeline (13 min presentation + 2 min questions)
10:30		MORNING TEA
11:00	Tobias Westmeier	On the slope of the HI mass function (13 + 2)
11:15	Robin Cook	The Connection between Structure and Cold Gas Reservoirs in Galaxies (13 + 2)
11:30	Karen Lee-Waddell	WALLABY (20 min presentation+5 questions)
11:55	Tristan Reynolds	ASKAP/WALLABY Early Science Observations of the NGC 7162 Galaxy Group (13+2)
12:10	Bi-Qing For	WALLABY early science: HI imaging of the LGG~351 group and surrounding galaxies (13+2)
12:25		LUNCH
CHAIR:	I. Wong	
13:30		POSTER SPARKLERS (Posters 1-10, 2min each)

13:55	Ahmed Elagali	A wide-field HI study of the NGC 1566 group using the ASKAP telescope(13+2)
14:10	Betsey Adams	Apertif (13+2)
14:25	Paolo Serra	Fornax Cluster with MeerKAT (20+5)
14:50	Filippo Maccagni	MeerKAT observations of Fornax A (13+2)
15:05	Natasha Maddox	MIGHTEE survey (20+5)
15:30		AFTERNOON TEA
16:00	Renee Kraan-Korteweg	Vela Supercluster with MeerKAT (13+2)
16:15	Jacinta Delhaize	Early results from HI observations with MeerKAT (13+2)
		<i>Theme: Targeted surveys</i>
16:30	Daniel Molnar	Star formation properties of HI-detected galaxies in the Coma cluster (13+2)
16:45	Brenda Namumba	HI observations of Local Group dwarf galaxies: HI distribution, kinematics, and star formation thresholds (13+2)
17:00	Enrico di Teodoro	Early GASKAP science: the dynamics of the Small Magellanic Cloud (13+2)
17:15		<i>PHISCC DAY 1 presentation ends</i>
17:45		ICRAR-sponsored sundowner reception @Uniclub (1hour)

Tuesday 12 Feb 2019

Start time	Speaker	Title
CHAIR:	B.-Q. For	<i>Theme: Targeted surveys</i>
09:00	Erwin de Blok	Early MHONGOOSE (20+5)
09:25	George Heald	The WSRT HALOGAS Survey: Main Results and Data Release (13+2)
09:40	Attila Popping	Imagine seeing all that faint gas (13+2)
		<i>Theme: Gas in galaxies</i>

09:55	Aeree Chung	Molecular gas properties of HI-rich galaxies (13+2)
10:10	Brad Frank	Science Processing of MeerKAT Data at IDIA and SRAO (13+2)
10:25		CONFERENCE PHOTO (assembly point: North of Reid Library & South of the Tropical Grove) + MORNING TEA
11:10	Jing Wang	Suppressed or enhanced central star formation rates in late-type barred galaxies (13+2)
11:25	Katie Jameson	HI Absorption in the SMC with ATCA and ASKAP (13+2)
11:40	Yun Zheng	The Comparison of Star Formation and HI Velocity Dispersion in Transitional Dwarf Galaxies (13+2)
11:55	Chandrashekar Murugesan	Angular momentum studies using HI in the WALLABY era (13+2)
		<i>Theme: High redshift HI</i>
12:10	Kelley Hess	CHILES (20+5)
12:35		LUNCH
CHAIR:	L. Staveley-Smith	
13:35	Julie Davis	Early Science with CHILES and Future Application to SKA Pathfinders (13+2)
13:50	Adam Watts	A statistical quantification of HI profile asymmetry as a function of galaxy properties from xGASS (13+2)
14:05	Jonghwan Rhee	DINGO (20+5)
14:30	Tariq Blecher	Strongly Lensed HI (13+2)
14:45	Andrew Baker	An update on the LADUMA deep HI survey (13+2)
15:00	Nathan Deg	Systematically Asymmetric
		<i>Theme: High redshift cold HI</i>
15:15	Rajeshwari Dutta	Absorption studies (20+5)
15:40		AFTERNOON TEA
16:10		POSTER SPARKLERS (Posters 11-14, 2min each)
16:20	Zheng Zheng	HI absorption with FAST (20+5)

16:45	James Allison	FLASH (20+5)
17:10		<i>PHISCC DAY 2 presentation ends</i>
17:40		Pre-dinner Drinks + Conference Dinner begins at 18:00 @ in the Roe Room at Matilda Bay Restaurant

Wednesday 13 Feb 2019

Start time	Speaker	Title
CHAIR:	J. Rhee	<i>Theme: Simulations & Tools</i>
09:30	Claudia Lagos	Predictions from simulations (20 min presentation+5 questions)
09:55	Garima Chauhan	The HI Velocity Function: a cosmology or baryon physics test? (13 +2)
10:10	Lilian Garratt-Smithson	Linking Cosmological Simulations to the ASKAP-FLASH Survey (13 +2)
10:25	Lourdes Verdes-Montenegro	Towards an HI asymmetries reference free from observational biases (13+2)
10:40		MORNING TEA
11:10	Nadine Hank	Exploring Asymmetries in Galaxy Mergers using Simulations (13 +2)
11:25	Se-Heon Oh	Robust profile decomposition for spectral-line galaxy surveys (13+2)
11:40	Georgios Bekiaris	GBKFIT: A generic high-performance software for galaxy kinematic modelling (13+2)
11:55	Vanessa Moss	CHAD: A Consolidated HI Absorption Database (13+2)
		<i>Theme: Synergy Working Group summary</i>
12:10	Kelley Hess	Radio surveys /multi-resolution working group (13+2)
12:25		<i>Logistics announcements</i>
12:30		LUNCH (& retrieval of posters)

Here ends the PHISCC 2019 plenary session & here begins the parallel focus sessions (FS)

Start time	FS 1: In the Murdoch Theatre	FS 2: In the Fox Theatre
<p>13:30 to 15:20</p>	<p>SKA HI-SWG (Lourdes Verdes-Montenegro) <u>Title of the session:</u> Preparation for the 2-day key science workshop of Manchester SKA meeting <i>(audience: open to everyone attending PHISCC)</i></p> <p>Format: Brief talks & group discussion</p> <p>Aim: To trigger a discussion that could serve as a basis to define potential KSPs and/or ways to proceed to prepare the 2-day key science workshop proposed by the organizers of the next SKA science meeting (“New Science enabled by New Technologies in the SKA Era” to be held at SKA HQ in Manchester from April 8th to 12th, 2019). Would include:</p> <ul style="list-style-type: none"> - exploring which of on-going HI projects, and in which measure, align with SKA1 priority science as defined in the HI Science Book and/or Stockholm list of potential HI surveys, - discussing potential required revisions <p>Participants can also propose other topics of discussion they might like to see pushed by the HISWG.</p>	<p>FLASH team meeting (Elaine Sadler) <u>Update and discussion session (audience: team & non-team members)</u> Chairs: James Allison and Elaine Sadler (FLASH PIs)</p> <p>For each of the topics below there will be a short update (presenter names in brackets) followed by 10-15 minutes of discussion time:</p> <ol style="list-style-type: none"> 1. Introduction and overview of FLASH, including executive members, policies, projects and logistics (James & Elaine) 2. Timeline for the survey; what do we need to do and when does it need to be done? (Elaine) 3. Commissioning & Early Science results (James) 4. Pilot Survey plans; what are we going to do and what is the science we expect? (Elaine) 5. Technical challenges still to be addressed (Elizabeth & Matt) 6. Simulations and modelling (Lilian) 7. The CHAD database (Vanessa)
<p>15:20 AFTERNOON TEA</p>		
<p>15:50 to 17:30</p>	<p>Reference Fields (Betsey Adams) <i>Venue moved to ICRAR Lev 2 Boardroom</i> <u>(Audience: Anyone who is interested)</u> Format: Board & group discussion Expected outcomes:</p> <ul style="list-style-type: none"> -decision on common reference fields -potential plans for moving forward <p><u>15:50-16:00</u> Introduction to focus session</p> <p><u>16:00-16:20</u> Overview of SPARCS</p>	<p>FLASH team meeting (Elaine Sadler) <u>(Audience: team members)</u></p> <p>This session will focus in more detail on planning our activities for the rest of 2019, including:</p> <ul style="list-style-type: none"> - Writing proposals for optical and mm follow-up (ESO, ALMA, HST etc.) - Progress with the FLASH survey description paper and other planned papers

<p>reference fields</p> <p><u>16:20-16:50</u> Discussion on role of reference fields for HI surveys</p> <p><u>16:50-17:10</u> Proposals for common HI fields between pathfinders</p> <p><u>17:10-17:30</u> Determination of working group & common fields to be pursued</p> <p>https://docs.google.com/document/d/19KffXEsgZUzbymSbajetdA37_DO5Iq_93V3heIfwfmM/edit?usp=sharing</p>	<ul style="list-style-type: none"> - Data pipeline tests - Refining the ASKAP pilot survey plan
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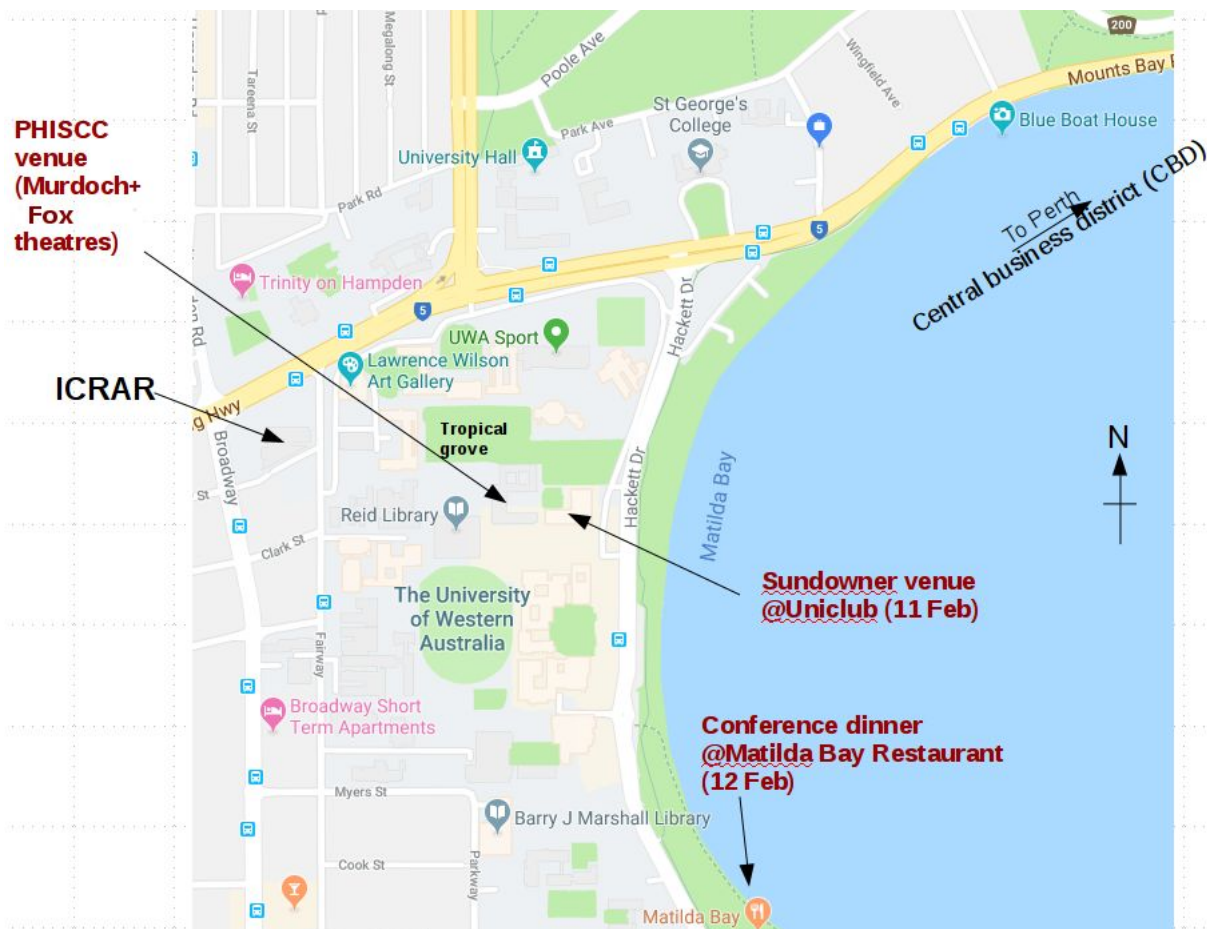
18:00	PHISCC Committee meeting (ICRAR Boardroom, Lev 2 Ken & Julie Michael building @7 Fairway)
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Thursday 14 Feb 2019 (located back @ICRAR/UWA on 7 Fairway)

Start time	FS 1: Lev 2 Boardroom	FS 2: Ground Floor Seminar room	FS 3: G17 (ground floor)
09:30 to noon	<p>Source Finding (<i>Tobias Westmeier</i>)</p> <p><u>09:30-10:00</u> Overview of HI source finding and outstanding challenges (P. Serra)</p> <p><u>10:00-11:00</u> Discussion and user feedback session (chaired by T. Westmeier)</p> <p><u>11:00-12:00</u> Presentation of parallelisation options + parallelisation discussion (speaker tbd., someone from the DIA group)</p>	<p>Visualisation (<i>Russ Taylor</i>)</p> <p>Format: Talks & group discussion</p> <p><u>09:30-09:34</u> Introductory remarks (Russ Taylor)</p> <p><u>09:35-10:05</u> Cloud solution for visualisation in the big data era (Angus Comrie)</p> <p><u>10:05-10:35</u> Cyber-physical discovery systems in action (Chris Fluke)</p> <p><u>10:35-11:00</u> Coffee and open discussion</p> <p><u>11:00-11:30</u> Virtual reality: a new perspective (Angus/Tom)</p>	<p>MIGHTEE-HI team meeting (<i>Natasha Maddox</i>)</p> <p>MIGHTEE/MIGHTEE-HI survey progress, ancillary data availability (~30 mins)</p> <p>Processing for MIGHTEE-HI & IDIA, data products + availability (~30 mins)</p> <p>Everyone/anyone: short talks (few minutes) on science ideas, expectations, etc</p> <p>Chaired Discussion: Science planning for 2019 & beyond.</p>

	<ul style="list-style-type: none"> - Facility/project updates/plans - Use cases - Implementation 	<p><u><i>Betsey if you would like to present something in the first part of the session</i></u></p> <p>Some sessions potentially joint with "Data products for public release"</p> <p><u>09:30-09:40</u> Introduction to focus session (by Betsey)</p> <p><u>09:40-10:30</u> Presentations on QA tools/metrics that exist:</p> <ul style="list-style-type: none"> - MeerKAT: Filippo Maccagni, DQA products for cross-calibration from MeerKATHI, potentially self-calibration and RFI - Apertif: Betsey Adams, cross-calibration of all beams - ASKAP: ?? Other facilities ?? <p>https://docs.google.com/document/d/1zHY-4VEBdEml3xeoXNsdBxDk4SPTSiU78JpOJLAd_qA/edit?usp=sharing</p>	<p>observations and data processing</p> <ul style="list-style-type: none"> - Kevin: AWS processing - Kristof: uv-gridding methods - Qingxiang: VLA stacking in G09
10:30 to 11:00		ICRAR FRIDAY MORNING TEA (applies to all)	
11:00 to 12:00	<ul style="list-style-type: none"> - SKA context - Joint session with QA 	<p><u>11:00-11:30</u> Discussion on QA tools and cooperation</p> <ul style="list-style-type: none"> -How can tools/metrics be shared between teams -What are we missing? -Is there anyway in which we can work together? <p><u>11:30-12:00</u> Discussion on QA metrics and association with public data products</p>	<p>Discussion:</p> <ul style="list-style-type: none"> - Pilot survey and next steps
Noon	to 1400	LUNCH (BYO/ self-catered)	
14:00 to 16:30	15:00--17:30: LADUMA team meeting (Sarah	WALLABY team meeting (Lister Staveley-Smith)	RFI flagging and mitigation (Vanessa Moss & Anja

Blyth)	<p><u>Agenda</u></p> <ul style="list-style-type: none"> o Intro o Short reports <ul style="list-style-type: none"> - PS update (Karen) - SoFIA pipeline (Tobias) - Kinematic pipeline (Se-Heon) o 2019 observation planning <ul style="list-style-type: none"> - Pilot survey (Karen, Barbara) o Team matters <ul style="list-style-type: none"> - Membership (Tobias) - SWG refresh (Tobias, Lister) o OIR data (Luca, Li) 	<p>Schroeder)</p> <p><u>Agenda:</u></p> <ul style="list-style-type: none"> - brief revisiting of PHISCC 2018 minutes - address action items from last meeting - outline the impact of RFI on PHISCC (& current/future mitigation strategies), & plan for a white paper - determine what could take place in an RFI workshop (main topic, goals)
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Please return of your plastic name-tags when you no longer need them. We thank you for your support & understanding.