



BRICS Astronomy Working Group (BAWG) 2023 Workshop Program

Times are in SAST/ UTC+02:00

Meeting Link: <https://www.parkmedia.live/bawg2023/>

Sunday 15 October

Reception dinner

Venue: SAAO Auditorium

Dress code: Casual

<i>Evening</i>			
18:00 -18:10		Welcome from SA BITDN Co-PIs	Russ Taylor David Buckley
18:10 - 18:15		Welcoming remarks - SAAO Managing Director	Petri Väisänen
18:15 - 18:45		Song and Dance	iThemba Youth Choir
18:45 - 19:30		SAAO Tour	Christian Hettlage
19:30 - 20:25		Networking	
20:25 - 20:30		Closing remarks - DSI Astronomy Chief Director	Takalani Nemaungani

17:30: Bus departs from hotel to SAAO

20:30: Bus departs from SAAO to hotel

Monday 16 October

<i>Morning</i>	Chair		
09:00 - 09:05 09:05 - 09:10 09:10 - 09:30 09:30 - 09:50 09:50 - 10:10 10:10 - 10:30	Russ Taylor	Welcoming Remarks - DSI Welcoming Remarks - NRF The BRICS Intelligent Telescope and Data Network Flagship Project Astronomical science platform for massive data analysis and processing Brazilian Activities in the BRICS Partnership towards a Flagship Astronomy Project Practice and search results for electromagnetic counterparts of LIGO/Virgo/KAGRA	Takalani Nemaungani Angus Paterson David Buckley and Russ Taylor Changhua Li Bruno Castilho Alexei Pozanenko (online)
10:30 - 11:00	<i>Tea/Coffee</i>	Poster presentations	
11:00 - 11:20 11:20 - 11:40 11:40 - 12:00	David Buckley	Indian SKA Regional Centre Development Illfu: A South African Data Intensive Research Cloud The IDIA Science Gateway and Cloud Federation	Yogesh Wadadaker Russ Taylor Rob Simmonds
12:00 - 13:30	<i>Lunch</i>		
<i>Afternoon</i>		Big Data and Survey Science	
13:30 - 13:45 13:45 - 14:00 14:00 - 14:15 14:15 - 14:30 14:30 - 14:45 14:45 - 15:00	Changhua Li	Golden time for 21 cm cosmology: how BRICS can bring together survey and data Exploring galaxy evolution with CHILES Exploring redshift-space distortions by combining future spectroscopic surveys. Cosmology using 1-loop EFT power spectrum for HI intensity mapping Research Projects with Gaia Using Machine Learning techniques to extract star clusters from Gaia Data	Yin-Zhe Ma D.J. Pisano Sim Dlamini Liantsoa Radmrianjanahary Priya Shah (online) Nhlengani Baloyi
15:00-15:30	<i>Tea/Coffee</i>	Poster presentations	

15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:45 17:00 - 17:15	Yogesh Wadadekar	The Deep GHz Universe with GMRT and MeerKAT: the superMIGHTEE project The CRAFTS Survey: Commensal Big Data Radio Astronomy The brightest (and faintest) sources in the radio sky Exploring the Universe with SNAD: Anomaly Detection in Astronomy The ProcessMeerKAT Pipeline - Processing MeerKAT Data in the Cloud Mapping the Milky Way with AMASE	Dharam Lal Marko Krco Sarah White Maria Pruzhinskaya Jordan Collier Sabyasachi Cattoipadhyay
18:00 - 21:00		Conference Dinner	Beluga – V&A Waterfront, Cape Town

Conference Dinner

Venue: Beluga - V&A Waterfront, Cape Town

Dress code: Casual

<i>Evening</i>			
18:15		Opening remarks - DSI Astronomy Chief Director	Takalani Nemaungani
18:20		Starters	
18:45		SARAO Managing Director	Pontsho Maruping
18:50		Main Course	
19:45		Closing remarks – NRF Deputy CEO NRIP	Angus Paterson
19:50		Dessert	

08:15: Bus departs from hotel to SAAO

17:30: Bus departs from SAAO to Beluga, V&A Waterfront

21:00: Bus departs from Beluga, V&A Waterfront to hotel

Tuesday 17 October

<i>Morning</i>	Chair	Survey Science and Big Data	
09:00 - 09:15 09:15 - 09:30 09:30 - 09:45 09:45 - 10:00 10:00 - 10:15 10:15 - 10:30 10:30 - 10:45	Ulisses Barres	Probing the Dynamical Universe with the Sitian Project An update on the SAAO's Intelligent Observatory programme. The 4m International Liquid Mirror Telescope in India Large scale X-ray surveys with the incidence grazing telescope ART-XC. Searching for X-ray transients on the ART-XC sky Alert Watcher and Astronomical Rapid Explorer (AWARE) Estimating or "Constraining" Volumetric Rates of Transients	Ningchen Sun (online) Stephen Potter Kuntal Misra Andrey Semena Ilya Mereminskiy (online) Nicolai Pankov (online) Avinash Singh (online)
10:45 - 11:15	<i>Tea/Coffee</i>	Poster presentations	
11:15 - 11:35 11:30 - 11:45 11:45 - 12:00 12:00 - 12:15 12:15 - 12:30	Kuntal Misra	Translating Radio Astronomical Big Data into Patterns of Discovery Science Cases of Machine Learning in Astronomy Looking for objects with excess UV emission in modern large-scale sky surveys N-body simulations for planets in star clusters Low-resolution spectroscopic view of the hosts of Tidal Disruption Events	Kshitij Thorat Sayed Najamul Hasan (online) Sergey Karpov (online) Francesco Flamminidotti (online) Rupak Roy (online)
12:30 - 13:30	<i>Lunch</i>		
<i>Afternoon</i>		Data Driven Outreach, Education and Development	
13:30 - 13:50 13:50 - 14:10 14:10 - 14:30 14:30 - 14:50 14:50 - 15:10	Duduzile Kubheka	Hackathons and Education – HACK4DEV CodeX - Developing Software Skills - Creating Youth Employment Promoting Gender Inclusivity in Data Science Training and Development Programmes - A case study using the Development in Africa with Radio Astronomy (DARA) Big Data project EDO in the age of big data: bringing the Universe into classrooms IVOA and its education resources	Eslam Hussein Cara Turner Bonita de Swart Niruj Mohan Ramanujam (online) Chenzhou Cui (online)
15:10-15:40	<i>Tea/Coffee</i>	Poster presentations	

15:40 - 17:15		Discussion: Implementing the BRICS Intelligent Telescope and Data Network	
	David Buckley/ Russ Taylor	Funding the Flagship Panel Discussion Public engagement - cohesion and integration Organization of the Flagship Project and Near-term goals Next Steps Concluding Remarks	Takalani Nemaungani Alexei Pozanenko, Yogesh Wadadekar, Kuntal Misra, Ulisses Barres, Chenzhou Cui, Russ Taylor, David Buckley

08:15: Bus departs from hotel to SAAO

17:30: Bus departs from SAAO to hotel

Wednesday 18 October

Hackathon

08:15: Bus departs from hotel to SAAO

17:30: Bus departs from SAAO to hotel

Site Visit to SALT and SKA. – **for BAWG Business Meeting delegates only.**

06:15: Bus departs from hotel to Cape Town International Airport

17:30: Bus departs from Cape Town International Airport to hotel

Thursday 19 October

Hackathon

08:15: Bus departs from hotel to SAAO

17:30: Bus departs from SAAO to hotel

BRICS Astronomy Working Group Business Meeting

19 October 2023

09:00 – 14:00(SAST)

Chair of the Working Group:

Imraan Patel, Deputy Director-General: Research Development and Support, Department of Science and Innovation

<i>Morning</i>		Agenda	
09:00 - 09:05 09:05 - 09:10 09:10 - 09:15 09:15 - 09:25 09:25 - 09:35 09:35 - 09:55 09:55 - 10:55		Opening remarks Apologies and approval of the agenda Introduction by delegations Report on the implementation of the resolutions of the 8th Working Group Meeting Discussion Status report on the Flagship Project - BRICS Intelligent Telescope and Data Network (BITDN) High-level presentations by each country on the latest developments in astronomy and plans for the next three years <ul style="list-style-type: none">• Brazil – Laboratório Nacional de Astrofísica• Russia – Institute of Astronomy of the Russian Academy of Sciences• India - Aryabhata Research Institute of observational sciences (ARIES)• China - National Astronomical Observatories of Chinese Academy of Sciences (NAOC)	Imraan Patel Takalani Nemaungani Bruno Castilho Mikhail Sachkov (online) Surhud More Gongbo Zhao (online)
11:00 - 11:15	Tea break		
11:15 - 11:30		High-level presentations by each country on the latest developments in astronomy and plans for the next three years <ul style="list-style-type: none">• South Africa - National Research Foundation	Angus Paterson

11:30 - 12:10		Discussion of the BRICS Astronomy Association	ALL
12:10 - 12:40		The BRICS STI Framework Programme	Yaroslav Sorokotyaga(online)
12:40 - 13:00		Funding the BITDN Project	
13:00 - 13:15		Astronomy publication journal for BRICS	
13:15 - 13:25		BRICS Astronomy magazine language translations	
13:25 - 13:30		Discussion of the next Working Group Meeting	
13:30 - 13:55		Drafting and endorsement of the Resolutions of the 9th Working Group Meeting	
13:55 - 14:00		Closing remarks by the Chair	
14:00	Lunch		

BAWG Business Meeting - **Please note that this is a closed meeting**

08:15: Bus departs from hotel to SAAO

15:30: Bus departs from SAAO to hotel