

SAIP2023**Tuesday 04 July 2023****Astrophysics & Space Science: Transients (10:00-11:00)****-Conveners: Soebur Razzaque**

time	[id] title	presenter
10:00	[141] Galactic transients discovered in the MeerTRAP real-time, commensal single pulse search with MeerKAT	Dr BEZUIDENHOUT, Mechiel
10:20	[220] Searching for pulsars and FRBs in an extragalactic source with MeerKAT	Mr HURTER, Heinrich

Astrophysics & Space Science: Gamma-ray bursts (11:00-12:00)**-Conveners: Geoff Beck**

time	[id] title	presenter
11:00	[58] Possible origins of > 10 TeV photons detected from the burst of all time (BOAT) GRB 221009A	RAZZAQUE, Soebur
11:20	[32] Pulse fitting and spectral analysis of Fermi -GBM short GRBs with known redshift and comparisons with magnetar giant flares	MAHESO, Dimakatso
11:40	[337] Compton polarization signatures in gamma-ray burst models	VAN DER MERWE, Pieter

Astrophysics & Space Science: Near Earth Environment (14:00-15:20)**-Conveners: KATLEGO MOLOTO**

time	[id] title	presenter
14:00	[23] Assessment of wildfire emissions using satellite and reanalysis data: A review	Dr SHIKWAMBANA, Lerato
14:20	[90] Analysis of ionospheric storm effects based on GPS and ionosonde data during geomagnetic storms.	Ms MASANGO, Nkosinathi
14:40	[91] A study of EIA behavior during geomagnetic storms	Ms BULALA, Avuyile
15:00	[345] Application of Data-Driven Deep Learning Hybrid Models for Forecasting of Semidiurnal and Diurnal Tides Measured by a SuperDARN HF Radar	MBATHA, Nkanyiso

Wednesday 05 July 2023

Astrophysics & Space Science: Cosmology (09:40-10:40)

-Conveners: Getachew Mekonnen Mengistie

time	[id] title	presenter
09:40	[43] Multi-fluid perturbations in $f(T)$ gravity	SAHLU, Shambel
10:00	[82] On the Perturbations of the $R_h=ct$ Universe	KYAZZE, Edmund
10:20	[265] Multi-messenger analysis of Ultrafaint dwarf galaxies as observational targets for Dark Matter indirect detection	Mr NOORBHAI, Raees

Astrophysics & Space Science: Miscellaneous (11:00-12:00)

-Conveners: Geoff Beck

time	[id] title	presenter
11:00	[87] NWU Radio Interferometry Commissioning and Verification	Mr WESSELS, Robin
11:20	[61] Kepler and Gaia DR2 views of open cluster NGC 6819	MEKONNEN MENGISTIE, Getachew

Astrophysics & Space Science: Solar Observations (14:00-15:00)

-Conveners: Lerato Shikwambana

time	[id] title	presenter
14:00	[119] Sunspot Number, Solar Flares and Atmospheric Gravity Waves	MOTHIBI, Matsobane Alex
14:20	[121] Investigating the solar differential rotation rate by sunspot tracking using terrestrial solar observations.	LEE, Calmay
14:40	[291] Statistical analysis of ground level enhancement (GLE) and Forbush decrease (FD) using neutron monitor data covering solar cycle 23 and 24.	Mr PHASHA, Lehlogonolo Arnold

Astrophysics & Space Science (15:20-17:40)

-Conveners: KATLEGO MOLOTO; Geoff Beck

time	[id] title	presenter
15:20	[369] Division Meeting	

Thursday 06 July 2023

Astrophysics & Space Science: Binaries (09:40-10:40)

-Conveners: Geoff Beck

time	[id] title	presenter
09:40	[368] Star-forming galaxies and radio-active galactic nuclei in the faint radio sky	MOTHOGOANE, Getrude Thando
10:00	[51] ULXs as progenitors of merging compact binary systems	NYADZANI, Lutendo

Astrophysics & Space Science: Cosmology II (11:00-12:00)

-Conveners: Shambel Sahlu

time	[id] title	presenter
11:00	[133] Dark Matter annihilation and the termination of the Martian geodynamo	MAKDA, Javeria
11:20	[281] Dark matter searches with MeerKAT	BECK, Geoff

Astrophysics & Space Science: Cosmic Ray Modelling (14:00-15:20)

-Conveners: Geoff Beck

time	[id] title	presenter
14:00	[261] On some nuances of time-dependent galactic cosmic ray proton modulation	MOLOTO, KATLEGO
14:20	[66] Modelling galactic cosmic ray drifts in the presence of a Fisk-type heliospheric magnetic field	Mr TROSKIE, Jonathan Stephanus
14:40	[57] Investigating the Role of Turbulence in Solar Energetic Particle Transport	Ms STEVENS, Jaclyn
15:00	[62] Solar energetic particle transport between Earth and Mars	DUMONT, Aimée

Friday 07 July 2023

Astrophysics & Space Science: Miscellaneous II (09:40-10:40)

-Conveners: KATLEGO MOLOTO

time	[id] title	presenter
09:40	[197] Commensal searching for radio transients/variables in MHONGOOSE Large Survey Project (LSP).	Ms TSHILENGO, Vhuthu
10:00	[95] Numerical simulations of the evolution of Astrospheres in the different interstellar conditions	MOYENI, Douglas Velile
10:20	[103] The effects of ion beams on linear and nonlinear ion-acoustic waves in space plasmas	Mr MAXENGANA, Mhhlali

Astrophysics & Space Science (11:00-12:20)