



# SAIP2022

## Monday 04 July 2022

### Space Science: Helio and Plasma Physics - Zoom Platform (11:30-13:00)

**-Conveners: Rendani ndanganeni**

time	[id] title	presenter
11:30	[5] Supersolitons that propagate obliquely to the magnetic field in a plasma with adiabatic ions, Boltzmann distributed cool electrons and Cairns or Kappa-distributed hot electrons	Dr SINGH, Shivani
11:45	[276] The effects of ion beams on slow and fast ion-acoustic solitons in plasmas with two-temperature electrons	Mr MAXENGANA, M.
12:00	[228] The Vacuum Arc Ion Thruster for Space Science Applications	Mr STANSELL, Paul
12:15	[163] Enhanced Vacuum Arc Thruster with Pulsed Magnetic Fields	RENCKEN, Tristan
12:30	[92] Constraining the Cross-field Diffusion of Jovian Electrons	Mr VAN DEN BERG, Jabus
12:45	[167] Simulating Solar Energetic Particle Transport As Observed By Solar Orbiter	Ms STEVENS, Jaclyn

### Space Science: Ionosphere - Zoom Platform (15:00-16:30)

**-Conveners: KATLEGO MOLOTO**

time	[id] title	presenter
15:00	[27] SuperDARN RADAR Groundscatter Statistics Over Antarctica	Ms SOSIBO, Phakamile
15:15	[189] The investigation of the skynoise parameter of the Sanae SuperDARN radar.	Ms DLAMINI, Mbali
15:30	[194] Determining the response of southern hemisphere SuperDARN convection maps to the southward turning of the Interplanetary Magnetic Field.	MCHITHAKALI, Aviwe
15:45	[271] A behavior of EIA during geomagnetic storms	BULALA, Avuyile

# Tuesday 05 July 2022

## Space Science: Radiation and Cosmic Rays - Zoom Platform (11:30-13:00)

-Conveners: Du Toit Strauss

time	[id] title	presenter
11:30	[192] Effects of solar storms on the radiation exposure to aircraft passengers and crew.	Dr NNDANGANENI, Rendani Rejoyce NNDANGANENI, Rendani
11:45	[221] Development of the HARM model for aviation dosimetry	MOSOTHO, Moshe Godfrey
12:00	[301] Assessment of the Cosmic-ray Soil Moisture Observing System for different agroclimatic zones.	MOLOTO, KATLEGO

# Thursday 07 July 2022

**Space Science - Zoom Platform (11:30-13:00)**

**Space Science - Zoom Platform (15:00-16:30)**