



**SAIP2017****Tuesday 04 July 2017****Space Science - A305 (11:10-12:10)****-Conveners: John Bosco Habarulema**

time	[id] title	presenter
11:10	[36] Ensemble Estimation of Network Parameters: A Tool to Improve the Real-time Estimation of GICs in the South African Power Network	Mr HEYNS, Michael
11:30	[46] Analysis of magnetotelluric data from the South African magnetotelluric network	Dr MATANDIROTYA, Electdom
11:50	[305] A study on effects of geomagnetic extreme events in the middle atmosphere using Space-Borne Satellite and SuperDARN.	Mr TIRE, Adila Wamisho

**Space Science - A305 (14:00-15:40)****-Conveners: Du Toit Strauss**

time	[id] title	presenter
14:00	[159] Observations of meridional and vertical propagation of ionospheric disturbances	Dr HABARULEMA, John Bosco
14:20	[183] Influence of the solar activity on the stratosphere-troposphere exchange in the southern Africa: Wavelet Approach	Dr MBATHA, Nkanyiso
14:40	[404] Midlatitude post sunset plasma bubbles during 11 April 2001 intense storm	Dr KATAMZI-JOSEPH, Zama Thobeka
15:00	[26] The Solar Dynamics Observatory eclipse season is not consistent with what is to be expected from an eclipse	Dr ALBERS, Claudia

# Wednesday 05 July 2017

## Space Science - A305 (11:10-12:10)

**-Conveners: Rendani ndanganeni**

time	[id] title	presenter
11:10	[150] Black aurora studies in the ionosphere.	Ms NEL, Amore
11:30	[333] Structure of magnetic turbulence at 1 AU	Prof. BURGER, Renier
11:50	[273] Thermospheric winds and temperatures	Prof. KOSCH, Michael

## Space Science - A305 (14:00-15:40)

**-Conveners: Nicholas Eugene Engelbrecht**

time	[id] title	presenter
14:00	[126] Ionospheric Electrodynamics within the African sector	Mr DUBAZANE, Makhosonke
14:20	[100] Geomagnetic Storm Impact on HF Communications and Radiation Exposure at Aviation Altitude	Dr NNDANGANENI, Rendani
14:40	[84] The response of the ionosphere to geomagnetic storms within 20&degE – 40&degE African longitude sector	Mrs MATAMBA, Tshimangadzo Merline
15:00	[124] Contribution of E x B drift to the low latitude TEC modelling during geomagnetic storms	Mr UWAMAHORO, Jean Claude

# Thursday 06 July 2017

## Space Science - A305 (11:10-13:10)

-Conveners: Carel Olivier

time	[id] title	presenter
11:10	[175] The effects of a time dependent wavy neutral sheet on cosmic-ray modulation in the heliosphere – progress and challenges	Mr MOLOTO, KATLEGO
11:30	[4] Solar Wind And Heliospheric Magnetic Field Behaviour During Solar Cycle 23-24	Dr KOTZE, Pieter
11:50	[161] On the reduction of drift coefficients in the presence of turbulence	Dr ENGELBRECHT, Nicholas Eugene

## Friday 07 July 2017

### Space Science - A305 (10:00-10:40)

-Conveners: Michael Kosch

time	[id] title	presenter
10:00	[143] Polarity switches, coexistence and the existence of supersolitons pertaining to electron-acoustic nonlinear structures	Dr MAHARAJ, Shimul
10:20	[248] Overtaking collisions of small-amplitude supersolitons in a plasma with cold ions and two-temperature Boltzmann electrons	Dr OLIVIER, Carel

### Space Science - A305 (11:10-13:10)

-Conveners: Shimul Kumar Maharaj

time	[id] title	presenter
11:10	[57] Multi-wavelength observations and modelling of solar energetic particles	Dr STRAUSS, Du Toit
11:30	[69] An introduction to diffusive shock acceleration in space sciences	Mr PRINSLOO, Phillip
11:50	[214] Future spacecraft missions to the Sun	Mr STEYN, Ruhann