

SAIP2016

Tuesday 05 July 2016

Space Science: Plasma Physics - 5B (10:00-10:40)

-Conveners: John Bosco Habarulema

| time | [id] title | presenter |
|-------|--|--------------------|
| 10:00 | [97] Nonlinear dust-acoustic waves in the nighttime polar mesosphere | Dr MAHARAJ, Shimul |
| 10:20 | [244] A small-amplitude study of solitons near supercritical points | Dr OLIVIER, Carel |

Space Science: Plasmas and low latitude ionosphere - 5B (11:10-12:10)

-Conveners: Shimul Kumar Maharaj; John Bosco Habarulema

| time | [id] title | presenter |
|-------|--|---------------------------|
| 11:10 | [249] Characterization of a Direct Current Discharge Based Microthruster | Mr WRIGHT, William |
| 11:30 | [196] Confirmation of low latitude electrodynamics in driving poleward waves | Dr HABARULEMA, John Bosco |
| 11:50 | [98] Plasma Drift Modeling: Multivariate Analysis | Mr DUBAZANE, Makhosonke |

Space Science: Low- and mid-latitude ionosphere - 5B (14:00-15:40)

-Conveners: Maharaj Shimul

| time | [id] title | presenter |
|-------|--|--|
| 14:00 | [99] Quiet time enhancements over African latitudes | Ms ORFORD, Nicola |
| 14:20 | [520] Using Particle Image Velocimetry (PIV) to determine velocities of TIDs over South Africa | Mr MAHLANGU, Fiso |
| 14:40 | [526] A comparison of measured TEC data with the IRI2011 and NeQuick 2 model results over the transition regions from low to mid-latitudes | Dr SIBANDA, Patrick |
| 15:00 | [530] Division Meeting: Astrophysics and Space Science | Dr ENGELBRECHT, Christian Dr HABARULEMA, John Bosco |

Wednesday 06 July 2016

Space Science: High latitude studies - 5B (09:40-10:40)

-Conveners: Michael Kosch

| time | [id] title | presenter |
|-------|---|---------------------------|
| 09:40 | [192] Investigation of the number of time ground-backscatter occurs for all the beams and range gates using the SuperDARN SANA E HF radar data. | Dr MTUMELA, Zolile |
| 10:00 | [123] Ionospheric Disturbances During Geomagnetic Storm at SANA E | Mr HIYADUTUJE, Alicreance |
| 10:20 | [122] The mystery of black auroras | Ms NEL, Amore |

Space Science: Heliospheric Physics - 5B (11:10-12:10)

-Conveners: Patrick Sibanda; Du Toit Strauss

| time | [id] title | presenter |
|-------|---|----------------------|
| 11:10 | [399] Long-term cosmic-ray modulation model: A simplified ab initio approach | Mr MOLOTO, KATLEGO |
| 11:30 | [86] Solar energetic particles and their transport to Earth | Dr STRAUSS, Du Toit |
| 11:50 | [361] Analyses of heliospheric magnetic field data as input for ab initio modulation models | Prof. BURGER, Renier |

Space Science: Heliospheric Physics and thermospheric studies - 5B (14:00-15:40)

-Conveners: Olakunle Ogunjobi; Pierre Cilliers

| time | [id] title | presenter |
|-------|---|-----------------------------------|
| 14:00 | [94] Cosmic ray ground level enhancements: Power of pulse shape | Dr OGUNJOBI, Olakunle |
| 14:20 | [75] The total solar modulation of low energy electrons in the heliosphere | Dr NNDANGANENI, Rendani |
| 14:40 | [64] TEC modelling over the African sector during geomagnetic storms | Mr UWAMAHORO, Jean Claude |
| 15:00 | [65] Analysis of ionospheric response to great geomagnetic storms during solar cycle 23 | Mrs MATAMBA, Tshimangadzo Merline |
| 15:20 | [183] Thermospheric neutral density observations by radar | Prof. KOSCH, Michael |

Thursday 07 July 2016

Space Science: Space Geodesy - 5B (09:40-10:40)

-Conveners: Rendani ndanganeni

| time | [id] title | presenter |
|-------|--|--------------------|
| 09:40 | [287] Near-Earth Object Avoidance Mitigation: Profiting One Rock at a Time | Dr MACLEOD, Gordon |
| 10:00 | [125] Development of an integrated model and system to enable optimal efficiency of the HartRAO LLR system | Dr BOTHA, Roelf |
| 10:20 | [517] Tube assembly experiments for optimal temperature sensor placement on the HartRAO Lunar Laser Ranger telescope | Mr TSELA, Philemon |

Space Science: Open session and recent results (11:10-12:10)

-Conveners: John Bosco Habarulema; Zolile Mtumela

| time | [id] title | presenter |
|-------|---|-------------------------|
| 11:10 | [81] Beam-driven slow and fast electron-acoustic solitons in three-electron temperature space plasmas | Mr MBULI, Lifa Nicholas |
| 11:30 | [21] AfriSprite campaign 2015/16 | Mr NNADIH, Stanislaus |
| 11:50 | [18] Automated Scheduling for a robotic astronomical telescope | Mr MAARTENS, Deneys |

Friday 08 July 2016

Space Science: Plasma Physics - 5B (09:40-10:40)

-Conveners: John Bosco Habarulema

Space Science: Space Science - 5B (11:10-12:10)

-Conveners: John Bosco Habarulema

time [id] title

presenter

| | | |
|-------|--|----------------------|
| 11:10 | [357] SILVER MEDALLIST LECTURE: 3D Models of Stellar Wind Interactions | Dr MOHAMED, Shazrene |
| 11:50 | [11] Solar Total Irradiance Behaviour during Cycle 23-24 | Dr KOTZE, Pieter |