

63rd ANNUAL CONFERENCE OF THE SA INSTITUTE OF PHYSICS

Tuesday 26 June 2018

Astrophysics: Optical Astronomy I (10:00-11:00)

-Conveners: Alida Odendaal

time	[id] title	presenter
10:00	[115] Ultra-diffuse galaxies in Stripe 82 Clusters	Mr MAKDA, Nazir-Ahmed
10:20	[67] Regulation of star formation in X-ray rich galaxy groups (stellar populations in brightest group galaxies)	Mr HAVENGA, Okkert

Astrophysics: Optical Astronomy II / Astronomy for Development (11:20-13:00)

-Conveners: Helene Szegedi

time	[id] title	presenter
11:20	[61] Modelling the Spectral Energy Distribution and Polarisation of Blazars	Ms SCHUTTE, Hester M.
11:40	[239] Improved Photometric Identification Formula for Pulsating Stars	Dr MENGISTIE, Getachew Mekonnen
12:00	[291] High speed photometry of a pre-main sequence star HD 68695 using the Mahikeng Astronomical Telescope (MAT)	Mr MOKGADI, Thapelo
12:20	[289] Science at the Mahikeng Astronomical Observatory	Prof. MEDUPE, Thebe

Wednesday 27 June 2018

Astrophysics: Gamma-ray / Multi-wavelength Astronomy I (10:00-11:00)

-Conveners: Brian van Soelen

time	[id] title	presenter
10:00	[376] Constraining star formation history with Fermi-LAT observations of the gamma-ray opacity of the Universe	Ms LE RAY, Ashlynn
10:20	[37] Lorentz Invariance Violation in high energy astrophysics	Mr ABDALLA, Hassan
10:40	[215] Radiation from relativistic particles accelerated at shear layers in relativistic jets.	Mr CHAND, Tej

Astrophysics: Cosmology / Dark Matter (11:20-13:00)

-Conveners: Christo Venter; Geoff Beck

time	[id] title	presenter
11:20	[46] Dark Matter gets DAMPE	Dr BECK, Geoff
11:40	[141] Did Dark Matter Kill the Dinosaurs?	Mr SARKIS, Michael
12:00	[77] Fast algorithm for the computation of the CMB polarization $\langle i \rangle_{TE}$ power spectrum using non-circular beam	Dr RAMAMONJISOA, Fidy Andriamanankasina
12:20	[97] Probing Quantum Gravity through the Radio and Gamma Regimes	Mr BECK, Geoff
12:40	[251] Shear-free Dust Cosmological Models in Gravitational Scalar-Tensor Theories	Ms ABDULRAHMAN, Heba

Astrophysics: Gamma-ray / Multi-wavelength Astronomy II / Non-specialist Talk (14:00-15:20)

-Conveners: Christo Venter

time	[id] title	presenter
14:00	[89] Spectral and Morphological Fitting of Young Pulsar Wind Nebulae using a Markov-Chain-Monte-Carlo Procedure	VAN RENSBURG, Carlo
14:20	[146] Modelling the polarisation signatures detected from the first white dwarf pulsar AR SCO.	Mr DU PLESSIS, Louis
14:40	[308] Non-specialist talk: GW170817 - The South African Perspective	Dr BOTTCHEER, Markus

Astrophysics: Division Meeting (15:40-17:00)

-Conveners: Christo Venter

time	[id] title	presenter
15:40	[412] Astrophysics and Space Science - joint meeting	Prof. VENTER, Christo Dr STRAUSS, Du Toit

Thursday 28 June 2018

Astrophysics: Gamma-ray / Multi-wavelength Astronomy III / Radio Astronomy I (10:00-11:00)

-Conveners: Markus Bottcher

time	[id] title	presenter
10:00	[157] Investigating the difference in FRI and FRII AGN jet morphology with relativistic hydrodynamic simulations	Mr VAN DER WESTHUIZEN, Izak
10:20	[144] Estimating the Modulated Inverse-Compton Flux Level from a Black Widow System	Prof. VENTER, Christo
10:40	[304] Bayesian TiRiFiC	Mr MAINA, Eric

Astrophysics: Radio Astronomy II / Gamma-ray / Multi-wavelength Astronomy IV (11:20-13:00)

-Conveners: Pieter Meintjes

time	[id] title	presenter
11:20	[338] Radio observation of diffuse radio emission in Abell 773 galaxy cluster	Mr SICHONE, Gift
11:40	[211] Radio Interferometric Calibration using a Complex Student-t distribution and Wirtinger derivatives	ULRICH ARMEL, Mbou Sob
12:00	[223] All Sky Imaging with PAPER	Mr CHEGE, James
12:20	[230] A Practical Survey of Novel and Legacy Radio Interferometry Imaging Algorithms and Packages	Mr RAMAILA, Athanaseus
12:40	[425] Updated orbital parameters for LMC P3 with SALT/HRS	Dr VAN SOELEN, Brian