

## Monday 13 November 2017

- 08:00 - 09:00 Registration [coffee on arrival]
- 09:00 - 10:30 **New Developments in the last 5 years** - Auditorium 1+2 [Chair: Patrick Woudt]
- 09:00 - 09:15 Welcome and Opening
- 09:15 - 09:45 **Tara Murphy** Transient science in era of gravitational wave astronomy [keynote]
- 09:45 - 10:15 **Tom Barclay** The Space-Based Photometry Revolution [invited]
- 10:15 - 10:30 **Matt Burleigh** The Next Generation Transit Survey
- 10:30 - 10:45 **Anais Möller** First results from the SkyMapper transient survey
- 10:45 - 11:15 Coffee/tea break
- 11:15 - 13:00 **New Developments in the last 5 years** - Auditorium 1+2 [Chair: David Buckley]
- 11:15 - 11:45 **George Djorgovski** Time domain Astroinformatics [invited]
- 11:45 - 12:15 **Barry Welsh** The Berkeley Visible Image Tube on SALT: From flare stars to the search for ET [invited]
- 12:15 - 12:30 **Elmé Breedt** Gaia alerts: the transient sky as seen by Gaia
- 12:30 - 12:45 **Lukasz Wyrzykowski** OGLE survey in 25 years in service for time-domain astrophysics and study of its Galactic black holes with help of Gaia
- 12:45 - 13:00 **Manisha Caleb** Fast Radio Bursts - From multi-beam receivers to interferometers
- 13:00 - 14:00 Lunch
- 14:00 - 15:30 **Afternoon workshops** - 3 breakout venues  
WS1. Radio transients in the era of multi-messenger astrophysics - Auditorium 1+2  
WS2. Stellar variability: from Citizen Science to Citizen Astronomy - Manor House  
WS3. Get ready for TESS: an on-hand software tutorial - Breakout Venue 1+2  
Data to Dome - Iziko Planetarium, Cape Town (transport provided)
- 15:30 - 16:00 Coffee/tea break
- 16:00 - 17:30 **Afternoon workshops** - 3 breakout venues  
WS1. Radio transients in the era of multi-messenger astrophysics - Auditorium 1+2  
WS4. 25 Years of the southern skies monitoring by OGLE - Manor House  
WS5. A-type stars as a unique challenge in time-domain studies - Breakout Venue 1+2  
Data to Dome - Iziko Planetarium, Cape Town (transport provided)
- 17:30 - 18:30 **Poster Session** - Auditorium 1+2 - wine and cheese
- 19:00 - 20:30 **Public lecture** - Auditorium 1+2  
**Stella Kafka** Citizen Astronomy in the era of large surveys

## Tuesday 14 November 2017

- 08:30 - 09:00 Coffee/tea on arrival
- 09:00 - 10:45 **Explosive Transients** - Auditorium 1+2 [Chair: Tara Murphy]
- 09:00 - 09:30 **Ben Stappers** Fast radio transients: From Pulsars to Fast Radio Bursts [invited]
- 09:30 - 10:00 **Stephen Justham** Forming the progenitors of explosive stellar transients [invited]
- 10:00 - 10:15 **Gemma Anderson** Discovering radio transients using triggered and targeted observations
- 10:15 - 10:30 **Deanne Coppejans** Multi-wavelength jet studies in Cataclysmic Variables and super luminous supernovae
- 10:30 - 10:45 **Griffin Hosseinzadeh** Early blue excess from the type Ia supernova 2017cbv
- 10:45 - 11:15 Coffee/tea break + **conference photo**
- 11:15 - 13:00 **Explosive Transients** - Auditorium 1+2 [Chair: Mark Sullivan]
- 11:15 - 11:45 **Laurent Eyer** Understanding the Galaxy in detail [invited]
- 11:45 - 12:15 **Janet Ting-Wan Chen** The electromagnetic counterpart of the gravitational wave source GW170817 [invited]
- 12:15 - 12:30 **Seppo Matilla** A dust-enshrouded tidal disruption event in a luminous infrared galaxy
- 12:30 - 12:45 **Francisco Förster** The High Cadence Transient Survey (HiTS): early supernova light curves
- 12:45 - 13:00 **Luca Izzo** Follow-up observations of Classical Novae: recent results and future strategies
- 13:00 - 14:00 Lunch
- 14:00 - 15:30 **Afternoon workshops** - 3 breakout venues  
WS6. X-ray binary transients in the Magellanic Clouds and the Milky Way - Auditorium 1+2  
WS7. Towards Science with LSST: Data Products and Communications - Manor house  
*Open slot* - Breakout venue 1+2
- 15:30 - 16:00 Coffee/tea break
- 16:00 - 17:30 **Afternoon workshops** - 3 breakout venues  
WS8. Supernovae - Auditorium 1+2  
WS9. The multi-dimensional power of listening to your data - Manor House  
WS10. New Instrumentation for transient follow-up - Breakout Venue 1+2

## Wednesday 15 November 2017

08:30 - 09:00 Coffee/tea on arrival

09:00 - 10:45 **Long-term and stellar variability** - Auditorium 1+2 [Chair: Elizabeth Griffin]

09:00 - 09:30 **Zheng-Hong Tang** TDA from the Chinese plate-digitizing project [invited]

09:30 - 10:00 **Luis Balona** Stellar variability [invited]

10:00 - 10:15 **Robert Szabo** The K2 RR Lyrae survey

10:15 - 10:30 **Gantcho Gantchev** Photometric variability of luminous blue variable stars on different time scales

10:30 - 10:45 **Kirill Sokolovsky** The Hubble Catalog of Variables

10:45 - 11:15 Coffee/tea break

11:15 - 13:00 **Long-term and stellar variability** - Auditorium 1+2 [Chair: Shazrene Mohamed]

11:15 - 11:45 **Susanne Höfner** Stellar variability and pulsations [invited]

11:45 - 12:15 **Conny Aerts** Measuring and decoding gravity-mode oscillations: rotation and chemical mixing inside stars [invited]

12:15 - 12:30 **Christoffer Karoff** Strong shear and high-amplitude activity cycle in metal-rich solar analog

12:30 - 12:45 **Gautier Mathys** Periodic variability on timescales of decades to centuries in magnetic Ap stars: challenges and strategies

12:45 - 13:00 **Zdenek Mikulasek** Periodic variations of variable stars from precise photometric surveys

13:00 - 13:15 Lunch (collect packed lunch for free afternoon)

**Free afternoon**

For detailed options, see the social program in the abstract booklet.

## Thursday 16 November 2017

- 08:30 - 09:00 Coffee/tea on arrival
- 09:00 - 10:45 **High Energy** - Auditorium 1+2 [Chair: Francisco Foster]
- 09:00 - 09:30 **Daryl Haggard** Discovery and opportunity in the X-ray time domain [invited]
- 09:30 - 10:00 **John Hutchings** UV and X-ray variability from AstroSAT [invited]
- 10:00 - 10:15 **Nobuyuki Kawai** X-ray transients observed with MAXI
- 10:15 - 10:30 **Arne Rau** X-ray transients in the SRG/eROSITA All-Sky Survey
- 10:30 - 10:45 **Sergey Molkov** LMC X-4: different types of long-term variability
- 10:45 - 11:15 Coffee/tea break
- 11:15 - 12:00 **High Energy** - Auditorium 1+2 [Chair: Stella Kafka]
- 11:15 - 11:45 **Duncan Galloway** High-energy variability and transients [invited]
- 11:45 - 12:00 **Phil Charles** Transient X-ray binaries in the Magellanic Clouds and the Milky Way observed with SALT
- 12:00 - 12:15 **Erkki Kankare** A new population of highly energetic nuclear transients
- 12:15 - 12:30 **Matthew Graham** The future of AGN variability studies
- 12:30 - 12:45 **Jeff Cooke** The Deeper, Wider, Faster program: chasing the fastest bursts in the Universe
- 12:45 - 13:00 **Christiaan Sterken** The problem of standardization in time domain photometry
- 13:00 - 14:00 Lunch
- 14:00 - 15:30 **Afternoon workshops** - 3 breakout venues  
WS11. Nuclear Transients - Auditorium 1+2  
WS12. Accessing data for long term variability - Manor House  
*Open slot* - Breakout Venue 1+2
- 15:30 - 16:00 Coffee/tea break
- 16:00 - 17:30 **Afternoon workshops** - 3 breakout venues  
WS11. Nuclear Transients - Auditorium 1+2  
WS13. Astrominformatics and machine learning - Manor House  
WS14. Calibration and standardization - Breakout Venue 1+2
- 19:30 **Conference Dinner - Gala dinner at STIAS**

## Friday 17 November 2017

- 08:30 - 09:00 Coffee/tea on arrival
- 09:00 - 10:45 **Can our techniques meet the challenges** - Auditorium 1+2 [Chair: Russ Taylor]
- 09:00 - 09:30 **Michelle Lochner** Unlocking the Universe with Astroinformatics [invited]
- 09:30 - 10:00 **Bruce Bassett** Challenges and opportunities for machine learning in time domain astronomy [invited]
- 10:00 - 10:15 **Abhijit Saha** Early recognition of rare and peculiar temporal phenomena from alert streams
- 10:15 - 10:30 **Monika Soraisam** A novel method for transient detection in high-cadence optical surveys
- 10:30 - 10:45 **Kerry Paterson** MeerLICHT: MeerKAT's optical eye
- 10:45 - 11:15 Coffee/tea break
- 11:15 - 13:00 **Can our techniques meet the challenges** - Auditorium 1+2 [Chair: Kaz Sekiguchi]
- 11:15 - 11:45 **Eric Bellm** Life beyond PTF [invited]
- 11:45 - 12:00 **Ashish Mahabal** Deep learning in the time domain
- 12:00 - 12:15 **Valentin Ivanov** Time domain instrumentation at ESO
- 12:15 - 12:30 **David Buckley** The SALT transients program
- 12:30 - 12:45 **Christina Thöne** OCTOCAM: A new transient follow-up workhorse for Gemini-South
- 12:45 - 13:00 **Puji Irawati** High Time resolution astrophysics using the Thai 2.4m telescope with ULTRASPEC
- 13:00 - 14:00 Lunch
- 14:00 - 15:30 **[Future]** - Auditorium 1+2 [Chair: Lukasz Wyrzykowski]
- 14:00 - 14:30 **Melissa Graham** LSST: Data pipelines and products [invited]
- 14:30 - 14:45 **Matthew Lehner** The Trans-neptunian Automated Occultation Survey (TAOS II)
- 14:45 - 15:00 **Jennifer Burt** TESS science and follow up in the southern hemisphere
- 15:00 - 15:30 Closing remarks

## Workshop program

- Workshop 1 ***Radio transients in the era of multi-messenger astrophysics***  
Convenors: Gemma Anderson, Kirill Sokolovsky  
Monday 13 November 2017 - 14:00 - 15:30 and Monday 16:00 - 17:30 - Auditorium 1+2
- Workshop 2 ***Stellar variability: From citizen science to citizen astronomy***  
Convenor: Stella Kafka  
Monday 13 November 2017 - 14:00 - 15:30 - Manor House
- Workshop 3 ***Get ready for TESS: an on-hand software tutorial***  
Convenors: Jennifer Burt, Tom Barclay  
Monday 13 November 2017 - 14:00 - 15:30 - Breakout venue 1+2
- Workshop 4 ***25 Years of the southern skies monitoring by OGLE***  
Convenor: Lukasz Wyrzykowski, Pawel Pietrukowicz  
Monday 13 November 2017 - 16:00 - 17:30 - Manor House
- Workshop 5 ***A-type stars as a unique challenge in time-domain studies***  
Convenor: Gautier Mathys  
Monday 13 November 2017 - 16:00 - 17:30 - Breakout venue 1+2
- Workshop 6 ***X-ray binary transients in the Magellanic Clouds and the Milky Way***  
Convenor: Phil Charles  
Tuesday 14 November 2017 - 14:00 - 15:30 - Auditorium 1+2
- Workshop 7 ***Towards Science with LSST: Data Products and Communications***  
Convenor: Melissa Graham  
Tuesday 14 November 2017 - 14:00 - 15:30 - Manor house
- Workshop 8 ***Supernovae***  
Convenor: Max Stritzinger, Takashi Moriya  
Tuesday 14 November 2017 - 16:00 - 17:30 - Auditorium 1+2
- Workshop 9 ***The multi-dimensional power of listening to your data***  
Convenors: Jeffrey Cooke, Wanda Merced Diaz  
Tuesday 14 November 2017 - 16:00 - 17:30 - Breakout venue 1+2
- Workshop 10 ***New instrumentation for transient follow-up***  
Convenors: Christina Thöne, Antonio de Ugarte Postigo  
Tuesday 14 November 2017 - 16:00 - 17:30 - Breakout venue 1+2
- Workshop 11 ***Nuclear transients***  
Convenor: Seppo Matilla  
Thursday 16 November 2017 - 14:00 - 15:30 and Thursday 16:00 - 17:30 - Auditorium 1+2
- Workshop 12 ***Accessing data for long term variability***  
Convenor: Elizabeth Griffin  
Thursday 16 November 2017 - 14:00 - 15:30 - Manor House
- Workshop 13 ***Astroinformatics and machine learning***  
Convenors: Michelle Lochner, Bruce Bassett  
Thursday 16 November 2017 - 16:00 - 17:30 - Manor House
- Workshop 14 ***Calibration and standardization***  
Convenor: Christiaan Sterken  
Thursday 16 November 2017 - 16:00 - 17:30 - Breakout venue 1+2