

Statistical Challenges for Next-Generation Astronomical Surveys Schedule

Talks

Friday 14h15-15h45

14h15: Introduction to the session/welcoming remarks

14h17: Statistical Challenges for Cosmology in the Era of Stage-IV Surveys (Invited) (Alessio Spurio Mancini)

14h32: Discussion time

14h35: From Months to Seconds: Accelerating Next-Generation Cosmological Inference with unimpeded for Bayesian Model Comparison and Tension Quantification Across Cosmological Surveys (Dily Duan Yi Ong)

14h45: Discussion time

14h49: Understanding the impact of emulators in our inference pipelines (Harry Bevins)

14h59: Discussion time

15h03: Evaluating Systematic Biases in the Modelling of Double-source-plane Lenses from Wide-area Surveys (Duncan Bowden)

15h13: Discussion time

15h17: SHADO: Operator-Based Signal Analysis and Feature Extraction for Patchy Multi-Instrument Photometry (Danny Dixon)

15h27: Discussion time

15h31: Behind the Spectrum: Disentangling Galaxy Physics from Observables with Variational AutoEncoders (Benedict Van den Bussche)

15h41: Discussion time

15h44: Closing remarks

Posters

- Strategies Utilising High-Frequency Interferometric Data to Explore SETI Parameter Space (Louisa Mason)
- Bayesian Technosignature Detection (Kelvin Wandia)
- Generating Missing Abundances in Large Spectroscopic Surveys APOGEE+GAIA (Salma Louhaichy)