

**KICC Focus Meeting on Astrostatistics and Astro-Machine Learning**

Talk	Time	Speaker	Title
	Thursday, 1 June		
1	10:00	Ben Wandelt & Justin Alsing	What is Simulation-Based Inference?
	11:00	coffee	IoA Foyer
2	11:30	Ben Wandelt & Justin Alsing	Applications of SBI
3	12:00	Christoph Weniger	Simulation-based inference assembly for large forward models (remote)
4	12:30	Kilian Scheutwinkel	Nested sampling neural ratio estimation (NSNRE)
	13:00	lunch	Churchill College (for registrants)
5	14:00	Konstantin Karchev	Supernova Ia Cosmology with (TM)NRE: from summary statistics to realistic lightcurves
6	14:30	Lucas Makinen	The Cosmic Graph: Optimal Information Extraction from Large-Scale Structure using Catalogues
7	15:00	Steve Gratton	GLASS: A General Likelihood Approximate Solution Scheme
	15:30	tea	IoA Foyer
	16:00	IoA Colloquium	Hoyle Lecture Theatre
	18:00	Dinner	Self-Organised
	Friday, 2 June		
optional	9:30	Justin Alsing	Simulation-Based Inference Decision Theory
8	10:00	Harry Bevins	Utilising Normalizing Flows to enhance our Bayesian workflows
9	10:30	Niall Jeffrey	Solving scientific model comparison with Evidence Networks
	11:00	coffee	IoA Foyer
10	11:30	Vinesh Maguire-Rajpaul	Overcoming astrostatistical barriers to discovering the first Earth-twin exoplanets
11	12:00	Rafael da Silva de Souza	Harnessing Tailored Statistical Techniques to Discover Galactic and Extragalactic Star Clusters
12	12:30	Will Baker	Using machine learning and Bayesian inference in galaxy evolution
	13:00	lunch	Churchill College (for registrants)
13	14:30	James Alvey	Simulation Based Inference in Astroparticle Physics
14	14:50	Sam Leeney	A Bayesian Approach to RFI Mitigation
15	15:10	Dominic Anstey	Time-sensitive Anomaly Flagging through Likelihood Reweighting
	15:30	tea	IoA Foyer
16	16:00	Matthew Grayling	Augmenting supernova training sets using Generative Adversarial Networks
17	16:20	Irene Abril-Cabezas	Joint analysis constraints on the physics of the first galaxies with low frequency radio astronomy data
18	16:40	Simon Pochinda	Joint astrophysical constraints on parameterized 21 cm models using multiwavelength observations
	18:00	Dinner/Pub	Self-Organised