

Likelihood-free in Paris

mercredi 20 avril 2022

Talks: Wednesday A (15:30 - 16:15)

-Présidents de session: Francois Boulanger

time	[id] title	presenter
15:30	[34] Normalising Flows for data analysis of Laser Interferometer Space Antenna	KORSAKOVA, Natalia
15:45	[17] Inferring Planetary Transits Parameters with Physics-constrained Deep Learning Models	M. MORVAN, Mario
16:00	[11] Simulation-based Inference for exoplanet characterization	VASIST, Malavika

Talks: Wednesday (shorter) (16:15 - 16:30)

time	[id] title	presenter
16:15	[16] Emulating 2-body decaying dark matter with neural networks	BUCKO, Jozef
16:22	[24] Towards a Quasi-Universal Field-Level Cosmological Emulator	M. KAUSHAL, Neerav

jeudi 21 avril 2022**Talks: Thursday A (10:00 - 11:00)**

time	[id] title	presenter
10:00	[22] Nested Sampling and Likelihood-Free Inference	HANDLEY, Will
10:15	[29] Compromise-Free Likelihood-Free Inference	LEMOS, Pablo
10:30	[26] Bayesian Neural Networks with Nested Sampling	YALLUP, David
10:45	[25] HARMONIC: Bayesian model comparison for simulation-based inference	SPURIO MANCINI, Alessio

Talks (11:25 - 11:42)

time	[id] title	presenter
11:30	[21] Data-driven reconstruction of Gravitational Lenses using Recurrent Inference Machine II	ADAM, Alexandre

Talks: Thursday B (14:00 - 15:00)

time	[id] title	presenter
14:00	[2] The Measurement of Galaxy Population properties with Forward-Modelling and Approximate Bayesian Computation	TORTORELLI, Luca
14:15	[6] Unbiased likelihood-free inference of the Hubble constant from light standard sirens	GERARDI, Francesca
14:30	[20] Marginal likelihood-free cosmological parameter inference from type Ia supernovae	KARCHEV, Konstantin
14:45	[19] Time delay cosmography with a neural ratio estimator	CAMPEAU-POIRIER, Ève

Talks: Thursday C (15:25 - 16:25)

time	[id] title	presenter
15:25	[14] Accelerating Simulation-Based Inference with Differentiable Simulators.	ZEGHAL, Justine
15:40	[28] Sampling high-dimensional posterior with a simulation based prior	REMY, Benjamin
15:55	[3] Truncated Marginal Neural Ratio Estimation with swyft	MILLER, Benjamin Kurt
16:10	[4] Cosmological Applications of Truncated Marginal Neural Ratio Estimation	COLE, Alex

Talks (16:45 - 17:00)

time	[id] title	presenter
16:45	[36] Hierarchical Probabilistic U-Net (HPU-Net) for generating high-dimensional posterior samples	SOTOUDEH, Mohammad-Hadi

vendredi 22 avril 2022**Talks: Friday A (10:00 - 11:00)**

time	[id] title	presenter
10:00	[35] GLASS: A General Likelihood Approximate Solution Scheme	Dr GRATTON, Steven
10:15	[37] Towards universal simulation-based inference with TMNRE	WENIGER, Christoph
10:30	[18] Measuring individual dark matter halos in strong lenses with truncated marginal neural ratio estimation	COOGAN, Adam
10:52	[27] Using Neural Ratio Estimation and Probabilistic Image Segmentation to detect Dark Matter Subhalos	M. DUBBELDAM, Elias

Talks (11:25 - 11:40)

time	[id] title	presenter
11:25	[13] Lifting weak lensing degeneracies with field-based inference	PORQUERES, Natalia

Talks (14:00 - 15:00)

time	[id] title	presenter
14:00	[5] Interpreting non-Gaussian posterior distributions of cosmological parameters with normalizing flows	DOUX, Cyrille
14:15	[30] The Essence of the Cosmos: how much cosmological information is trapped in large-scale structure, and can it be extracted ?	M. MAKINEN, Lucas
14:30	[12] Simulation-based inference from the CMB	DE BELSUNCE, Roger
14:45	[7] Towards a Likelihood-Free Inference Analysis of KiDS-1000 Cosmic Shear	LIN, Kiyam M. VON WIETERSHEIM-KRAMSTA, Maximilian
14:45	[10] Towards a Likelihood-Free Inference Analysis of KiDS-1000 Cosmic Shear	VON WIETERSHEIM-KRAMSTA, Maximilian LIN, Kiyam

Talks (15:30 - 16:30)

time	[id] title	presenter
15:30	[9] Simulation-based inference of dark matter properties in strong gravitational lenses	ANAU MONTEL, Noemi
15:45	[15] Information content on primordial non-Gaussianity from the non-linear dark matter field	JUNG, Gabriel
16:00	[8] Simulation-Based Inference in Strong Gravitational Lensing	LEGIN, Ronan
16:15	[38] Scattering transform and generative models for LFI application	ALLYYS, Erwan