Physics in the AI era

Wednesday, 25 September 2024

Cosmology - Sala Stemmi (09:00 - 10:30)

time [id] title	presenter
09:00 [37] Cosmology from the first billion years as seen with the 21cm line	Prof. MESINGER, Andrei
09:40 [38] Machine Learning for Astrophysics & Cosmology	Dr HENEKA, Caroline
10:05 [39] Machine Learning of the Cosmic 21-cm Signal	Dr PRELOGOVIC, David

Cosmology - Sala Stemmi (11:20 - 12:15)

time	[id] title	presenter
11:20	[57] Generative models for large-scale structures	Prof. MORIWAKI, Kana
11:45	[28] Machine learning based inference of high redshift observations.	LAZARE, Hovav
12:00	[31] Evaluating Summary Statistics with Mutual Information for Cosmological Inference	SUI, Ce

Cosmology - Sala Stemmi (14:30 - 16:00)

time [id] title	presenter
14:30 [44] Machine learning in astrophysics	Prof. BUCK, Tobias
15:10 [50] Solving inverse problems with diffusion models	ADAM, Alexandre
15:35 [51] Dusting off the Cosmic Microwave Background with Diffusion Models	Dr RÉGALDO-SAINT BLANCARD, Bruno

Cosmology - Sala Stemmi (16:30 - 17:15)

time	[id] title	presenter
16:30	[26] Analysing edge-on galaxies with deep learning	Dr CHROBÁKOVÁ, Žofia
16:45	[25] Emulating the Interstellar Medium Chemistry with Neural Operators	Dr BRANCA, Lorenzo
	[7] Neural Network Approaches for Quasar and Galaxy Continuum Estimation: A Comparative Study of Autoencoder and U-Net Architectures	Dr PISTIS, Francesco