SKACH Winter Meeting 2026

Monday, 26 January 2026

Monday Afternoon: Data Science & Simulations - **Ground Floor E4 (13:20 - 15:20)**

   -Conveners: Darren Reed

time	[id] title	presenter
13:20	[18] Deep Learning Approaches for Solving Chemistry in Radiative Transfer Simulations	Dr DENZEL, Philipp
13:40	[20] ART4SKA - Accelerated Radiative Transfer Simulations for the Square Kilometre Array	Dr BOSCHI, Tommaso
14:00	[14] Solving the Cosmological Vlasov–Poisson Equations with Physics-Informed Kolmogorov-Arnold Networks	CERARDI, Nicolas
14:20	[10] Evaluating Learning-Based Compression Techniques for Radio Interferometric Visibilities Data	CHEN, Xiaoran
14:40	[12] Implicit inference of the reionization history with higher-order statistics of the 21-cm signal	CERARDI, Nicolas
15:00	[4] PRISME-21 : Public Reference for Interferometric Simulations for Foreground Mitigation in the Epoch of Reionization (EoR) 21-cm signal	DE SALIS, Emmanuel

Monday Afternoon: Data Science & Simulations (continued) - **Ground Floor E4 (15:50 - 17:30)**

   -Conveners: Darren Reed

time	[id] title	presenter
15:50	[7] Physics Informed Machine Learning for Wave Dark Matter Simulations	MISHRA, Ashutosh Kumar
16:10	[15] When to Rebalance? Cost–Benefit Analysis of Domain Decomposition in SPH-EXA	Dr SIMSEK, Osman Seckin
16:30	[9] Reconstructing the cosmological distribution of dark matter from HI	FELDMANN, Robert
16:50	[13] VIRUP updates	CABOT, Florian
17:05	[24] Karabo: Overview, Access, and Transition to SDP Configuration	WASSMER, Andreas DE SANTIS, Massimo

Monday Afternoon: Closing - Day 1 - **Ground Floor E4 (17:30 - 17:35)**