

ACAT 2024

Tuesday, 12 March 2024

Track 3: Computations in Theoretical Physics: Techniques and Methods - Lecture Hall 1 (11:30 - 13:10)

-Conveners: Francisco Antonio Villaescusa-Navarro

time	[id] title	presenter
11:30	[191] The MadNIS Reloaded	HEIMEL, Theo
11:50	[192] Modern Machine Learning Tools for Unfolding	MARIÑO VILLADAMIGO, Javier
12:10	[128] Precision-Machine Learning for the Matrix Element Method	HUETSCH, Nathan
12:30	[96] Fast and Precise Amplitude Surrogates with Bayesian and Symmetry Preserving Networks	BRESÓ PLA, Víctor
12:50	[173] Machine learning based surrogates for particle-resolved direct numerical simulation	ATIF, Mohammad

Wednesday, 13 March 2024

Track 3: Computations in Theoretical Physics: Techniques and Methods - Lecture Hall 1 (14:30 - 16:10)

-Conveners: Ramon Winterhalder

time	[id] title	presenter
14:30	[4] Towards a framework for GPU event generation	CARRAZZA, Stefano
14:50	[193] A fresh look at the nested soft-collinear subtraction scheme: NNLO QCD corrections to N-gluon final states in quark-anti-quark annihilation	TAGLIABUE, DAVIDE MARIA
15:10	[15] Efficient precision simulation of processes with many-jet final states at the LHC	GUTSCHOW, Christian
15:30	[39] Pepper – A Portable Parton-Level Event Generator for the High-Luminosity LHC	Dr BOTHMANN, Enrico
15:50	[195] p-adic reconstruction of rational functions in multi-loop calculations	CHAWDHRY, Herschel

Thursday, 14 March 2024

Track 3: Computations in Theoretical Physics: Techniques and Methods - Lecture Hall 1 (14:30 - 16:10)

-Conveners: Chiara Signorile

time	[id] title	presenter
14:30	[185] Multiscale Lattice Gauge Theory Algorithms and Software for Exascale hardware.	BOYLE, Peter
14:50	[97] McMule -- a Monte Carlo generator for low energy processes	ULRICH, Yannick
15:10	[8] Total 10-th order QED electron anomalous magnetic moment calculation	VOLKOV, Sergey
15:30	[90] 3-loop Feynman integrals in the Euclidean or physical kinematical region	Dr DE DONCKER, Elise
15:50	[194] Two-loop five-points QCD amplitudes in full colour	DEVOTO, Federica