15th Conference on the Intersections of Particle and Nuclear Physics (CIPANP 2025) Madison Wisconsin June 9-13

Monday, June 9, 2025

Physics at High Energies: Measurements and Machine Learning at the LHC (3:30 PM - 5:15 PM)

 -Conveners: Lisa Everett

time	[id] title	presenter
3:30 PM	[184] W mass from ATLAS	BEAUCHEMIN, Hugo
3:50 PM	[198] Focus talk on resent Higgs measurements in ATLAS	BOCCARDO, Lucrezia
4:05 PM	[40] Symmetry-restoring finite counter-terms of SMEFT four-fermion operator insertions at one-loop	VALE SILVA, Luiz
4:20 PM	[190] Recent advances in Machine Learning for Physics Analysis at CMS	KANSAL, Raghav
4:40 PM	[188] Recent advances in Machine Learning for Physics Analysis at ATLAS	LUONGO, Nicholas

Wednesday, June 11, 2025

Physics at High Energies: Future Colliders: Muon collider (2:00 PM - 3:30 PM)

-Conveners: Lisa Everett

time	[id] title	presenter
2:00 PM	[99] Fermion Portal Dark Matter at a Muon Collider	ASADI, Pouya
2:20 PM	[163] Detector R&D for a 10 TeV Muon Collider	ROSSER, Benjamin
2:40 PM	[149] Electroweak Observables in Neutrino-Electron Scattering from a Muon Storage Ring	THOMPSON, Adrian

Thursday, June 12, 2025

<u>Physics at High Energies: Searches for BSM Physics at the LHC: Parallel 8</u> **(4:00 PM - 5:40 PM)**

-Conveners: Nicholas Luongo

time	[id] title	presenter
4:00 PM	[193] Focus talk on recent Exotics search in ATLAS	COLLABORATION, ATLAS REVERING, Michael
4:20 PM	[219] New signals of vectorlike quarks at the LHC	BERNREUTHER, Elias
4:40 PM	[199] Search for a new pseudoscalar decaying into a pair of bottom and antibottom quarks in top-associated production in $\sqrt{\Box} = 13$ TeV proton–proton collisions with the ATLAS detector	KHALED, Sara
5:00 PM	[205] t-channel dark matter at the LHC	MOHAN, Kirtimaan
5:20 PM	[290] Studying hadronization with ML and the road to "differentiable" Pythia.	MRENNA, Stephen

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