

Session Program

11-13 May 2026



Phenomenology 2026 Symposium

New Physics at Future Colliders

University of Pittsburgh

Monday 11 May

14:15

New Physics at Future Colliders: Higgs, SUSY

Session | Location: David Lawrence Hall 205, University of Pittsburgh

14:15-14:30

Searches for electroweak production of supersymmetric particles with the ATLAS detector

Speaker

Evelyn Jean Thomson

14:30-14:45

Searches for long-lived particles and unconventional signatures with CMS

Speaker

Gianfranco De Castro

14:45-15:00

Real singlet scalar benchmarks in the multi-TeV resonance regime

Speaker

Ian Lewis

15:00-15:15

Top Quark Pair Production and Decay: The 1-Higgs-Singlet Model and Pseudoscalar Decay

Speaker

Vishakha Lingadahally

15:15-15:30

Higgs decays to four leptons to $\mathcal{O}(1/\Lambda^4)$ in SMEFT

Speaker

Mario Flores-Hernández

15:30-15:45

Photon-Induced Triple Higgs Production in the Higgs Triplet Model at Muon Colliders

Speaker

Terrance Figy

15:45-16:00

Exotic Higgs Decays at a Muon Collider

Speaker

Yanhan Wang

16:00

Tuesday 12 May

14:00

New Physics at Future Colliders: EFT, DM

Session | Location: University of Pittsburgh

14:00-14:15 **Estimation of NLO-in-EFT Errors for Collider SMEFT Searches**

Speaker

William Shepherd

14:15-14:30 **Probing Top Quark - Electron Interactions at Future Colliders**

Speaker

Hongkai Liu

14:30-14:45

Probing light axion-like particles via photon conversions in the CMS tracker

Speaker

Sena Durgut

14:45-15:00

Probing Dimension-6 SMEFT Operators in Rare Z and Higgs Decays at the LHC and Beyond

Speaker

Inci Karaaslan

15:00-15:15

The Geometry of SMEFT: From Field-Space Geometry to Collider Signatures

Speaker

Cristofer Caballeros

15:15-15:30 **Searches for dark sector signatures with CMS**

Speaker

Gianfranco De Castro

15:30-15:45

Probing Higgs-Gauge Interactions at HL-LHC and Future Lepton Colliders

Speaker

Abhik Sarkar

15:45-16:00 -

16:00

16:30

New Physics at Future Colliders

Session | Location: University of Pittsburgh

16:30-16:45 **SURFing to the Fundamental Limit of Jet Tagging**

Speaker

Ian Pang

16:45-17:00 **Searches for New Resonances with CMS**

Speaker
Jeongeun Lee

17:00-17:15 **Testing the Robustness of Via Machinae Stellar Stream Candidates**

Speaker
Rafael Porto

17:15-17:30

Transforming Flavour Tagging with the ATLAS Detector: ML/AI tools and calibration techniques

Speaker
Storm Lin

17:30-17:45 **A Bi-adjoint Model from the W-Gluon Portal**

Speaker
Katherine Schwind

17:45-18:00 **Opening the GeV Window at the LHC**

Speaker
Carlos Henrique de Lima

18:00-18:15 **Heavy Vector Triplets at the Muon Collider**

Speaker
Francesca Acanfora

18:15-18:30 **Disentangling Multiple Light-Flavor Jets at Colliders**

Speaker
Gregorio de la Fuente Simarro

18:30