

## Session Program

11-13 May 2026



# Phenomenology 2026 Symposium

## *New Developments in Theory*

University of Pittsburgh

# Monday 11 May

14:15

## New Developments in Theory: Session 1

Session | Location: David Lawrence Hall 209, University of Pittsburgh

**14:15-14:30** A Geometric Path to Lorentz Spinors

**Speaker**

Zachary Gunther

**14:30-14:45** The Geometric Scattering Algebra of Physical Space

**Speaker**

Moab Croft

**14:45-15:00** Extensions Beyond 4-Point Amplitudes in Constructive QED

**Speaker**

Nicholas Majestic

**15:00-15:15**

**Dispersion relation and unitarization of electroweak amplitudes from continuous spectra and higher-spin towers**

**Speaker**

Chi Shu

**15:15-15:30** Advanced maths in cosmology

**Speaker**

Pierros Ntelis

**15:30-15:45**

**Randall-Sundrum Dark Matter Portal Model - Symmetries, Amplitudes and Phenomenology**

**Speaker**

Joshua Gill

**15:45-16:00** Holographic Chiral Anomalies and Axions Phenomenology

**Speaker**

Hanieh Moradipasha

16:00

## Tuesday 12 May

14:00

### New Developments in Theory: Session 2

Session | Location: David Lawrence Hall 107, University of Pittsburgh

#### 14:00-14:15 Pure Gauge Theories in Two Dimensions

**Speaker**

Digvijay Roy Varier

#### 14:15-14:30 Dynamics for theories with higher-order interference (a proposal)

**Speaker**

Nabin Bhatta

#### 14:30-14:45 Light KK Gravitons from Extended Warped Extra Dimensions at DUNE

**Speaker**

Ankur Verma

#### 14:45-15:00

#### Asymptotic Velocity Domination in quantized polarized Gowdy Cosmologies

**Speaker**

Mahdi Sedighi Jafari

#### 15:00-15:15

#### Entanglement, Yang-Mills, and the Scattering Matrix as an $SU(N)$ -equivariant Kernel

**Speaker**

Rahul Muraleedharan

#### 15:15-15:30 Strongly Coupled Quantum Forces

**Speaker**

Chinhsan Sieng

#### 15:30-15:45 Massive $1 \rightarrow 3$ Splitting Functions Beyond Kinematical Limits

**Speaker**

Grant Whitman

#### 15:45-16:00

#### Using symmetry breaking to obtain multiple copies of $SU(M)$ related by a discrete, cyclic gauge symmetry

**Speaker**

Noah McNeal

16:00