

Session Program

8 November 2025

PIKIMO 19: Fall 2025

Regular Sessions

Northwestern University Technological Institute, Tech L211
2145 Sheridan Rd, Evanston, IL 60208

Saturday 8 November

08:50

09:00

09:00

10:00

10:15

Regular Sessions: Welcome

Session | Location: Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

Regular Sessions: First Morning Block

Session | Location: Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

09:00-09:15	Large Neutrino "Collider" Speaker Keping Xie
09:15-09:30	A ν look at the Sun: Probing the conditions of the solar core using ~ 8 B neutrinos Speaker Ms Melanie Zaidel
09:30-09:45	Probing Neutrino Properties at Low and Medium Energies Speaker Sam Carey
09:45-10:00	A Quantum Computational Determination of the Weak Mixing Angle in the Standard Model Speaker Qiaofeng Liu

Regular Sessions: Second Morning Block

Session | Location: Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

10:15-10:30	A Quantum Description of Axion Dark Matter Detection Speaker Dhong Yeon Cheong
10:30-10:45	Axion Production and Detection Using a Dual NMR-type Experiment Speaker Fengwei Yang
10:45-11:00	Upper Bound on Parity Breaking Scale for Doublet WIMP Dark Matter Speaker Matthew Baldwin
11:00-11:15	Stringent Constraints on Gravitational Wave Signatures of Dark Electromagnetism

11:15

Speaker

Ian Harris

14:05

Regular Sessions: APS Announcement**Session** |**Location:** Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

14:10

15:15

Regular Sessions: First Afternoon Block**Session** |**Location:** Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

15:15–15:30

Running with Radiative Corrections in Deep Inelastic Scattering**Speaker**

Justin Cammarota

15:30–15:45

A baryon and lepton number violation model testable at the LHC**Speaker**

Tong Ou

15:45–16:00

Autonomous New-Physics Discovery from Foundational Embeddings of SMEFT**Speaker**

Brandon Kriesten

16:00–16:15

QED at the precision frontier: accounting for cavity shifts to $(g-2)_e$ **Speaker**

Hannah Day

16:15

16:30

Regular Sessions: Second Afternoon Block**Session** |**Location:** Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

16:30–16:45

Constraining General Light Massive Relics with the CMB**Speaker**

David Imig

16:45–17:00

AXIS Can Access Dark Matter Decays with the Longest Lifetimes**Speaker**

Inci Karaaslan

17:00–17:15

Dynamical Solution to the Eta Problem in Spectator Field Models**Speaker**

Sana Elgamal

17:15–17:30

Generalized Entanglement Measures in Higher Dimensional Quantum Systems**Speaker**

Melinda Yuan

17:30

17:35

Regular Sessions: Evening Block

Session |

Location: Northwestern University Technological Institute, Tech L211, 2145 Sheridan Rd, Evanston, IL 60208

17:35–17:50

Searching Stochastic Gravitational Wave Background Landscape From Inflated String-Wall Network Across Frequency Bands

Speaker

Yunjia Bao

17:50–18:05

Constraining the Coexistence of Freeze-in Dark Matter and Primordial Black Holes

Speaker

Sagnik Mukherjee

18:05–18:20

The Bearable Inhomogeneity of the Baryon Asymmetry

Speaker

Hengameh Bagherian

18:35