

Session Program

22-24 Oct 2025



Brookhaven Forum 2025: Launching the Second Century of Quantum Physics

Plenary

Wednesday 22 October

09:00

Plenary

Session | **Location:** Large Seminar Room

09:00–09:10

Welcome

Speakers

Peter Denton, Robert Szafron

09:10–09:50

Physics Opportunities at Future Colliders

Speaker

Karri DiPetrillo

09:50–10:30

Searching for New Physics at the Electron-Ion Collider

Speaker

Brian Batell

10:30–11:00

Coffee break

11:00–11:40

Particle Physics Meets Quantum Information

Speaker

Ian Low

11:40–12:20

Recent BSM Results from ATLAS and CMS (remote)

Speaker

Michael Hank

12:20

Thursday 23 October

09:00

Plenary

Session | **Location:** Large Seminar Room | **Convener:** Prof. Peter Boyle

09:00–09:40

Novel Directions in Dark Matter Direct Detection

Speaker

Carlos Blanco

09:40–10:20

Theory Status of the Muon Anomalous Magnetic Moment in the Fall of 2025

Speaker

Thomas Blum

10:20–10:50

Coffee Break

10:50–11:30

Origin of Ultrahigh Energy Cosmic Rays in Binary Neutron Star Mergers, and the Fascinating Physics it Entails (remote)

Speaker

Glennys Farrar

11:30–12:10

Recent advances in Higgs physics and the Standard Model from ATLAS and CMS

Speaker

Cristina Ana Mantilla Suarez

12:10

Friday 24 October

09:00

Plenary

Session | **Location:** Large Seminar Room | **Convener:** Hooman Davoudiasl

09:00–09:40

The Strong Force Could Have Heated the Universe's First Moment

Speaker

Kim Berghaus

09:40–10:20

Open questions in Neutrino Physics and How (Not) to Answer Them

Speaker

Bhupal Dev

10:20–10:50

Coffee Break

10:50–11:30

Physics of Neutrinoless Double Beta Decay (remote)

Speaker

Karsten Heeger

11:30–12:10

Short Baseline Neutrino Experiments: What We've learned and Where We're Going

Speaker

Mark Ross Lonergan

12:10