

Session Program

4-10 Nov 2018

**NuTheories: Beyond the 3 × 3 Paradigm at
Current and Near-Future Facilities**

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Saturday 3 November

14:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

14:00–14:15

Welcome

Speaker

Tao Han

14:15–15:15

Neutrino Masses and Physics beyond the Standard Model

Speaker

Pavel Fileviez Perez

15:15–15:45

Coffee

15:45–16:45

Beyond the 3x3 neutrino paradigm with majorons

Speaker

Julian Heeck

16:45–17:45

New neutrino interactions

Speaker

Danny Marfatia

17:45

Sunday 4 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **Constraining Leptonic Flavour Model Parameters**

Speaker
Jessica Turner

10:30–11:00 **Coffee**

11:00–12:00 **Cosmic neutrino searches as dark matter detectors**

Speaker
David McKeen

12:00–14:00 **Lunch**

14:00–15:00 **Boosted Dark Matter at Large Volume Neutrino Detectors**

Speaker
Joshua Berger

16:00–17:30 **Colloquium: Neutrino physics and dark sectors**

Speaker
Maxim Pospelov

17:30

Monday 5 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **BSM Physics Opportunities with DUNE**

Speaker

Alexandre Sousa

10:30–11:00 **Coffee**

11:00–12:00 **Optimizing boosted dark matter searches**

Speaker

Doojin Kim

12:00–14:00 **Lunch**

14:00–15:00 **New $U(1)'$ interactions and the MiniBooNE Low-Energy Excess**

Speaker

Mark Ross-Lonergan

15:00–15:30 **Coffee**

15:30–16:30 **Search for boosted dark matter in DUNE**

Speaker

Yun-Tse Tsai

16:30–17:30 **Global Analysis of Neutrino Oscillation Data Circa Autumn 2018**

Speaker

Ivan Esteban

17:30

Tuesday 6 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **Short-Baseline Oscillations: Current and Future Efforts**

Speaker

Andy Mastbaum

10:30–11:00 **Coffee**

11:00–12:00 **Search for new physics with reactor neutrinos**

Speaker

Prof. Karsten Heeger

12:00–14:00 **Lunch**

14:00–15:00 **Neutrinos in SMEFT and the Neutrino Option**

Speaker

Michael Robert Trott

15:00–15:30 **Coffee**

15:30–16:30 **Sterile Neutrinos for Flavor Anomalies**

Speaker

Bibhushan Shakya

16:30–17:30

The ANITA anomalous events as signatures of a beyond standard model particle

Speaker

Sarah Shandera

17:30

Wednesday 7 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **Review of Recent LBL Neutrino Oscillation Results**

Speakers

Vittorio Paolone, Vittorio Paolone

10:30–11:00 **Coffee**

11:00–12:00 **Status of KATRIN and TRISTAN**

Speaker

Diana Parno

12:00–14:00 **Lunch**

14:00

Thursday 8 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **The minimal seesaw: Turning every stone**

Speaker

Marco Drewes

10:30–11:00 **Coffee**

11:00–12:00 **Nu Mass Models at Colliders: Worries and Hopes**

Speaker

Richard Ruiz

12:00–14:00 **Lunch**

14:00–15:00 **Neutrino mass: The origins**

Speaker

Miha Nemevsek

15:00–15:30 **Coffee**

15:30–16:30

Revisiting type-II seesaw: the high-energy and high-precision frontier tests

Speaker

Dr Yongchao Zhang

16:30–17:30

Lepton Number Violation and modified Higgs production in low-scale seesaw models

Speaker

Dr Cedric Weiland

17:30

Friday 9 November

09:00

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Session | **Location:** Carnegie Room, Wyndham Pittsburgh University Center

09:00–09:30 **Breakfast**

09:30–10:30 **Natural and Dynamical Neutrino Mass Mechanism at the LHC**

Speaker
Yuber Perez

10:30–11:00 **Coffee**

11:00–12:00 **Neutrino Portal Dark Matter**

Speakers
Brian Thomas Batell, Brian Thomas Batell

12:00