

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

14:00

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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

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