

PITT PACC Workshop: Nu Tools for BSM at Neutrino Beam Facilities

Report of Contributions

Contribution ID: 77

Type: **not specified**

Welcome and Workshop Overview and Goals

Wednesday 14 December 2022 09:00 (5 minutes)

Presenter: BATELL, Brian Thomas

Session Classification: Morning Early

Contribution ID: 78

Type: **not specified**

Tools: A Theory Overview

Wednesday 14 December 2022 09:05 (35 minutes)

Presenter: BERGER, Joshua (Colorado State University)

Session Classification: Morning Early

Contribution ID: 79

Type: **not specified**

Tools for BSM@nu - What do we need for experiments?

Wednesday 14 December 2022 09:45 (35 minutes)

Presenter: Prof. YU, Jae (University of Texas at Arlington (US))

Session Classification: Morning Early

Contribution ID: **80**

Type: **not specified**

BSM w/wo Neutrino @ Neutrino Beam Facilities

Wednesday 14 December 2022 10:55 (35 minutes)

Presenters: DUTTA, Bhaskar; DUTTA, Bhaskar; Prof. DUTTA, Bhaskar

Session Classification: Morning Late

Contribution ID: **81**

Type: **not specified**

Neutrino Experiments and Heavy Neutral Leptons

Wednesday 14 December 2022 11:35 (35 minutes)

Presenters: HOSTERT, Matheus (Perimeter Institute); HOSTERT, Matheus (University of Minnesota / Perimeter Institute); HOSTERT, Matheus; HOSTERT, Matheus (University of Minnesota)

Session Classification: Morning Late

Contribution ID: **82**

Type: **not specified**

Searches for New Physics with the NuMI Beam at ICARUS

Wednesday 14 December 2022 14:00 (35 minutes)

Presenters: PUTNAM, Gray Louis (Harvard University (US)); PUTNAM, Gray (University of Chicago)

Session Classification: Afternoon Early

Contribution ID: 83

Type: **not specified**

BSM modeling in neutrino near detectors and the SBND experience

Wednesday 14 December 2022 14:40 (35 minutes)

Presenters: ALIAGA, Leo; Dr ALIAGA SOPLIN, Leonidas (Fermilab); ALIAGA SOPLIN, Leonidas (College of William and Mary (US))

Session Classification: Afternoon Early

Contribution ID: **84**

Type: **not specified**

A Study of Secondary Productions of Dark Sector Particles at Neutrino Experiments

Wednesday 14 December 2022 15:55 (35 minutes)

Presenter: JANG, Wooyoung (University of Texas at Arlington)

Session Classification: Afternoon Late

Contribution ID: 85

Type: **not specified**

TBD

Session Classification: Afternoon Late

Contribution ID: 86

Type: **not specified**

MiniBooNE Anomaly: Status and BSM

Thursday 15 December 2022 09:00 (35 minutes)

Presenters: KELLY, Kevin James (Texas A&M University); KELLY, Kevin James (Northwestern University (US)); KELLY, Kevin (Fermilab)

Session Classification: Morning Early

Contribution ID: 87

Type: **not specified**

MiniBooNE Anomaly and Dark Sectors

Thursday 15 December 2022 09:40 (35 minutes)

Presenters: THOMPSON, Adrian Raphael; THOMPSON, Adrian (Texas A&M University)

Session Classification: Morning Early

Contribution ID: **88**

Type: **not specified**

BSM searches at Short Baseline Experiments

Thursday 15 December 2022 10:55 (35 minutes)

Presenter: TSAI, Yun-Tse (SLAC)

Session Classification: Morning Late

Contribution ID: 89

Type: **not specified**

BSM searches at ArgoNeuT

Thursday 15 December 2022 11:35 (35 minutes)

Presenters: PALAMARA, Ornella (Fermi National Accelerator Lab. (US)); PALAMARA, Ornella; PALAMARA, Ornella (Fermilab)

Session Classification: Morning Late

Contribution ID: **90**

Type: **not specified**

BSM Searches and Nutau Physics with DUNE

Thursday 15 December 2022 14:00 (35 minutes)

Presenters: Prof. SOUSA, Alexandre (University of Cincinnati (US)); SOUSA, Alexandre (University of Cincinnati); Prof. SOUSA, Alexandre (University of Cincinnati)

Session Classification: Afternoon Early

Contribution ID: 91

Type: **not specified**

Dark-Sector-Origin Anomalous Tau Neutrino Appearance in Neutrino Experiments

Thursday 15 December 2022 14:40 (35 minutes)

Presenters: KIM, Doojin (University of Florida); Dr KIM, Doojin (Texas A & M University (US))

Session Classification: Afternoon Early

Contribution ID: **92**

Type: **not specified**

BSM in LArSoft

Friday 16 December 2022 09:00 (35 minutes)

Presenter: PETRILLO, gianluca (SLAC National Accelerator Laboratory)

Session Classification: Morning Early

Contribution ID: 93

Type: **not specified**

GENIE and BSM

Friday 16 December 2022 09:40 (35 minutes)

Presenters: DYTMAN, Steven (Univ of Pittsburgh); DYTMAN, Steven (Pittsburgh)

Session Classification: Morning Early

Contribution ID: 94

Type: **not specified**

BSM Simulation Pipeline

Friday 16 December 2022 10:55 (35 minutes)

Presenter: ISAACSON, Joshua

Session Classification: Morning Late

Contribution ID: 95

Type: **not specified**

Nu Tools for BSM Outlook

Friday 16 December 2022 11:35 (35 minutes)

Presenter: MACHADO, Pedro (Fermilab)

Session Classification: Morning Late

Contribution ID: 96

Type: **not specified**

TBD

Session Classification: Afternoon Late

Contribution ID: 97

Type: **not specified**

The impact of neutrino-nucleus interaction modeling on new physics searches

Thursday 15 December 2022 15:55 (35 minutes)

Presenter: LI, Shirley (Fermilab)

Session Classification: Afternoon Late