

**Nu@Fermilab**

# **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Neutrinos and collider physics

*Tuesday, 21 July 2015 09:50 (20 minutes)*

**Presenter:** DEPPISCH, Frank

**Session Classification:** Neutrinos at Colliders

Contribution ID: 1

Type: **not specified**

## **Tests of SeeSaw leptons at Current and Future colliders**

*Tuesday, 21 July 2015 10:10 (20 minutes)*

**Presenter:** RUIZ, Richard

**Session Classification:** Neutrinos at Colliders

Contribution ID: 2

Type: **not specified**

## **Bounds from colliders on heavy neutrinos**

*Tuesday, 21 July 2015 10:30 (20 minutes)*

**Presenter:** DEV, Bhupal

**Session Classification:** Neutrinos at Colliders

Contribution ID: 3

Type: **not specified**

# **Inverse SeeSaw Heavy Neutrino production at the LHC**

*Tuesday, 21 July 2015 10:50 (20 minutes)*

**Presenter:** MARCANO, Xabier

**Session Classification:** Neutrinos at Colliders

Contribution ID: 4

Type: **not specified**

# **Introduction to astrophysical neutrinos at high energies**

*Tuesday, 21 July 2015 14:10 (20 minutes)*

**Presenter:** BEACOM, John

**Session Classification:** Neutrinos in astrophysics

Contribution ID: 5

Type: **not specified**

## **Diffuse emission of high-energy neutrinos from cosmic bursts**

*Tuesday, 21 July 2015 14:30 (20 minutes)*

**Presenter:** TAMBORRA, Irene

**Session Classification:** Neutrinos in astrophysics

Contribution ID: 6

Type: **not specified**

## **On the flavor composition of IceCube neutrinos**

*Tuesday, 21 July 2015 14:50 (20 minutes)*

**Presenter:** PALOMARES-RUIZ, Sergio

**Session Classification:** Neutrinos in astrophysics



Contribution ID: 7

Type: **not specified**

## Flavor in high energy astrophysical neutrinos

*Tuesday, 21 July 2015 15:10 (20 minutes)*

**Presenter:** BUSTAMANTE, Mauricio

**Session Classification:** Neutrinos in astrophysics

Contribution ID: 9

Type: **not specified**

## **Muon-induced spallation backgrounds for MeV astrophysical neutrino signals in Super-Kamiokande**

*Tuesday, 21 July 2015 16:00 (20 minutes)*

**Presenter:** LI, Shirley

**Session Classification:** Neutrinos in astrophysics

Contribution ID: 12

Type: **not specified**

## **Right-handed neutrinos as top partners**

*Thursday, 23 July 2015 10:10 (20 minutes)*

**Presenter:** BATELL, Brian

**Session Classification:** Neutrino mass models

Contribution ID: 13

Type: **not specified**

## **Leptogenesis in minimal models of neutrino masses**

*Wednesday, 22 July 2015 09:50 (20 minutes)*

**Presenter:** KEKIC, Marija

**Session Classification:** Sterile neutrinos

Contribution ID: 14

Type: **not specified**

## **Cosmological constraints on the SeeSaw scale**

*Wednesday, 22 July 2015 09:30 (20 minutes)*

**Presenter:** LOPEZ-PAVON, Jacobo

**Session Classification:** Sterile neutrinos

Contribution ID: 15

Type: **not specified**

## Status of global fits to sterile neutrinos

*Wednesday, 22 July 2015 10:10 (20 minutes)*

**Presenter:** KARAGIORGI, Georgia

**Session Classification:** Sterile neutrinos

Contribution ID: 16

Type: **not specified**

## Reactor spectra and anomaly

*Wednesday, 22 July 2015 10:30 (20 minutes)*

**Presenter:** VOGEL, Petr

**Session Classification:** Sterile neutrinos

Contribution ID: 17

Type: **not specified**

## Neutrino masses and dark matter

*Wednesday, 22 July 2015 14:50 (20 minutes)*

**Presenter:** HERNANDEZ, Daniel

**Session Classification:** Neutrino mass models



Contribution ID: **18**

Type: **not specified**

## **Dark matter searches at neutrino experiments**

*Wednesday, 22 July 2015 13:30 (20 minutes)*

**Presenter:** FRUGIUELE, Claudia

**Session Classification:** New physics at short baseline experiments

Contribution ID: 19

Type: **not specified**

## Trident processes at near detectors

*Wednesday, 22 July 2015 13:50 (20 minutes)*

**Presenter:** ALTMANNSHOFER, Wolfgang

**Session Classification:** New physics at short baseline experiments

Contribution ID: 20

Type: **not specified**

## **Non-Unitarity in the 3x3 lepton mixing matrix**

*Wednesday, 22 July 2015 14:10 (20 minutes)*

**Presenter:** ROSS-LONERGAN, Mark

**Session Classification:** New physics at short baseline experiments

Contribution ID: 21

Type: **not specified**

## Hints of sterile neutrinos from $K^+ \rightarrow \pi^+ \nu \bar{\nu}$

*Wednesday, 22 July 2015 10:50 (20 minutes)*

**Presenter:** SINHA, Nita

**Session Classification:** Sterile neutrinos

Contribution ID: 27

Type: **not specified**

## **Sensitivity to light weakly-coupled new physics at the precision frontier**

*Wednesday, 22 July 2015 14:30 (20 minutes)*

**Presenter:** LE DALL, Matthias

**Session Classification:** Neutrino mass models

Contribution ID: 28

Type: **not specified**

## **The Quest for Precision Measurement of the Neutrino Mixing Angles and Dirac CP Violation Phase (or the Quest for Nature's Message)**

*Friday, 24 July 2015 09:30 (20 minutes)*

**Presenter:** PETCOV, Serguey

**Session Classification:** Flavor models

Contribution ID: **30**

Type: **not specified**

# Flavorspin

*Friday, 24 July 2015 10:30 (20 minutes)*

**Presenter:** BERRYMAN, Jeffrey

**Session Classification:** Flavor models

Contribution ID: 31

Type: **not specified**

## **Predictions for the leptonic Dirac CP-violating phase**

*Friday, 24 July 2015 09:50 (20 minutes)*

**Presenter:** GIRARDI, Ivan

**Session Classification:** Flavor models



Contribution ID: 32

Type: **not specified**

## **Flavor scenarios from 5D SO(10): order and anarchy interplay**

*Friday, 24 July 2015 10:50 (20 minutes)*

**Presenter:** VICINO, Denise

**Session Classification:** Flavor models

Contribution ID: 33

Type: **not specified**

## The search for leptonic CP violation

*Thursday, 23 July 2015 14:30 (1 hour)*

**Presenter:** FERNANDEZ-MARTINEZ, Enrique

**Session Classification:** Theory Department Seminar

Contribution ID: 34

Type: **not specified**

## **Non-Standard interactions in propagation through atmospheric neutrinos**

*Thursday, 23 July 2015 16:00 (20 minutes)*

**Presenter:** YASUDA, Osamu

**Session Classification:** Non-Standard Neutrino Interactions

Contribution ID: 35

Type: **not specified**

## **Matter effect from Non-Standard Interactions of the neutrino**

*Thursday, 23 July 2015 16:20 (20 minutes)*

**Presenter:** TAKEUCHI, Tatsu

**Session Classification:** Non-Standard Neutrino Interactions

Contribution ID: 36

Type: **not specified**

# The phenomenology of Non-Standard Interactions

*Thursday, 23 July 2015 17:00 (20 minutes)*

**Presenter:** WRIGHT, Warren

**Session Classification:** Non-Standard Neutrino Interactions

Contribution ID: 37

Type: **not specified**

## **Neutrinos and new physics: complementarity of different observables**

*Thursday, 23 July 2015 16:40 (20 minutes)*

**Presenter:** MOCIOIU, Irina

**Session Classification:** Non-Standard Neutrino Interactions

Contribution ID: 39

Type: **not specified**

## Neutrino mass models and leptonic CP violation

*Thursday, 23 July 2015 09:30 (20 minutes)*

**Presenter:** CHEN, Mu-Chun

**Session Classification:** Neutrino mass models

Contribution ID: 40

Type: **not specified**

## Thermal leptogenesis from flavour and CP symmetries

*Friday, 24 July 2015 10:10 (20 minutes)*

**Presenter:** MOLINARO, Emiliano

**Session Classification:** Flavor models



Contribution ID: 41

Type: **not specified**

## TeV scale lepton number violation

*Thursday, 23 July 2015 10:30 (20 minutes)*

**Presenter:** MOHAPATRA, Rabindra

**Session Classification:** Neutrino mass models

Contribution ID: 43

Type: **not specified**

## Neutrino masses from a minimal principle

*Thursday, 23 July 2015 10:50 (20 minutes)*

**Presenter:** ALONSO, Rodrigo

**Session Classification:** Neutrino mass models

Contribution ID: 45

Type: **not specified**

## **Sterile neutrinos and CP violation searches at long-baseline oscillation experiments**

*Friday, 24 July 2015 14:10 (20 minutes)*

**Presenter:** PALAZZO, Antonio

**Session Classification:** New physics at long baseline oscillation experiments

Contribution ID: 46

Type: **not specified**

## **Lattice-QCD calculations for neutrino physics**

*Friday, 24 July 2015 15:10 (20 minutes)*

**Presenter:** KRONFELD, Andreas

**Session Classification:** Neutrino cross sections

Contribution ID: 47

Type: **not specified**

## **Radiative corrections and lessons from electron-proton scattering**

*Friday, 24 July 2015 14:30 (20 minutes)*

**Presenter:** HILL, Richard

**Session Classification:** Neutrino cross sections

Contribution ID: 48

Type: **not specified**

## **A model-independent fit to the Nucleon Axial Form Factor using Deuterium Data**

*Friday, 24 July 2015 14:50 (20 minutes)*

**Presenter:** MEYER, Aaron

**Session Classification:** Neutrino cross sections

Contribution ID: 50

Type: **not specified**

## **Precision measurements at long-baseline oscillation experiment**

*Friday, 24 July 2015 13:50 (20 minutes)*

**Presenter:** WANG, Tse-Chun

**Session Classification:** New physics at long baseline oscillation experiments

Contribution ID: 51

Type: **not specified**

# Flavor and generalized CP symmetries in lepton mixing

*Thursday, 23 July 2015 09:50 (20 minutes)*

**Presenter:** STUART, Alexander

**Session Classification:** Neutrino mass models



Contribution ID: 52

Type: **not specified**

## Welcome

*Tuesday, 21 July 2015 09:30 (10 minutes)*

**Presenter:** PARKE, Stephen

**Session Classification:** Welcome!

Contribution ID: 53

Type: **not specified**

## Status of MicroBooNE

*Tuesday, 21 July 2015 09:40 (10 minutes)*

**Presenter:** FLEMING, Bonnie

**Session Classification:** Welcome!

Contribution ID: 54

Type: **not specified**

# Neutrino Oscillations with Altered Dispersion Relations

*Wednesday, 22 July 2015 15:10 (20 minutes)*

**Presenter:** PAES, Heinrich

**Session Classification:** New Physics in Oscillations

Contribution ID: 55

Type: **not specified**

## **New or Nu Missing Energy? Discriminating Dark Matter from Neutrinos at the LHC**

*Tuesday, 21 July 2015 13:50 (20 minutes)*

**Presenter:** SHOEMAKER, Ian

**Session Classification:** Neutrinos at Colliders

Contribution ID: 56

Type: **not specified**

## **Secluded neutrinos in astrophysics and cosmology**

*Thursday, 23 July 2015 17:20 (20 minutes)*

**Presenter:** FRIEDLAND, Alexander

**Session Classification:** Neutrinos in astrophysics

Contribution ID: 57

Type: **not specified**

## Summary

*Saturday, 25 July 2015 09:30 (20 minutes)*

**Session Classification:** Discussion

Contribution ID: 58

Type: **not specified**

## Discussion

*Tuesday, 21 July 2015 11:30 (20 minutes)*

**Presenter:** QUIGG, Chris

**Session Classification:** Discussion

Contribution ID: 59

Type: **not specified**

## Searching for Sterile Neutrino Dark Matter with X-Ray observations

*Friday, 24 July 2015 13:30 (20 minutes)*

**Presenter:** NG, Chun Yu

**Session Classification:** Neutrinos in astrophysics



Contribution ID: **60**

Type: **not specified**

## **Wine and Cheese Seminar**

*Friday, 24 July 2015 16:00 (1 hour)*

**Presenter:** MAHN, Kendall

**Session Classification:** Wine and Cheese Seminar