

Neutrinos: the quest for a new physics scale

Report of Contributions

Contribution ID: 1

Type: **not specified**

TBA

Contribution ID: 2

Type: **not specified**

Massive Neutrinos circa 2017

Monday 27 March 2017 10:00 (1 hour)

Presenter: Prof. GONZALEZ-GARCIA, Concepcion (YITP, Stony Brook and ICREA, U. Barcelona)

Contribution ID: 3

Type: **not specified**

Critical review on neutrino anomalies

Monday 27 March 2017 11:00 (1 hour)

Presenter: GIUNTI, Carlo (INFN - National Institute for Nuclear Physics)

Contribution ID: 4

Type: **not specified**

Discussion: Neutrino portals to BSM

Presenters: KOPP, Joachim (Johannes-Gutenberg-Universitaet Mainz (DE)); HUBER, Patrick (Virginia Tech)

Contribution ID: 5

Type: **not specified**

Discussion: Beyond the 3nu scenario in neutrino experiments

Presenters: COLOMA, Pilar (Fermilab); PATTERSON, Ryan (California Institute of Technology)

Contribution ID: 6

Type: **not specified**

Neutrino masses versus CLV

Tuesday 28 March 2017 10:00 (1 hour)

Presenter: DAVIDSON, Sacha (Universite Claude Bernard-Lyon I (FR))

Contribution ID: 7

Type: **not specified**

Neutrino physics at colliders

Tuesday 28 March 2017 11:00 (1 hour)

Presenter: HAN, Tao (University of Pittsburgh)

Contribution ID: 8

Type: **not specified**

Lepton perspective on flavour

Wednesday 29 March 2017 11:00 (1 hour)

Presenter: ISIDORI, Gino (Universitaet Zuerich (CH))

Contribution ID: 9

Type: **not specified**

Neutrino properties from cosmological measurements

Wednesday 29 March 2017 10:00 (1 hour)

Presenter: LESGOURGUES, Julien (TTK, RWTH Aachen University)

Contribution ID: **10**

Type: **not specified**

Prospects in neutrinoless double-beta decay and other lepton number violating searches

Contribution ID: **11**

Type: **not specified**

Status of neutrino Dark Matter

Thursday 30 March 2017 11:00 (1 hour)

Presenter: HORIUCHI, Shunsaku (Virginia Tech)

Contribution ID: **12**

Type: **not specified**

PeV neutrinos

Friday 31 March 2017 10:00 (1 hour)

Presenter: WINTER, Walter (DESY)

Contribution ID: **13**

Type: **not specified**

Supernova neutrinos

Friday 31 March 2017 11:00 (1 hour)

Presenter: MIRIZZI, Alessandro

Contribution ID: 14

Type: **not specified**

TH Colloquium: Origin of Neutrino mass: will we ever know?

Wednesday 29 March 2017 14:00 (1 hour)

Presenter: VOLKAS, Raymond (The University of Melbourne)

Session Classification: TH Colloquium: Origin of Neutrino mass: will we ever know ?

Contribution ID: 15

Type: **not specified**

Phenomenology of NSI and non-unitarity

Monday 27 March 2017 14:00 (20 minutes)

Presenter: FERNANDEZ MARTINEZ, Enrique

Session Classification: Neutrino portals to BSM

Contribution ID: **16**

Type: **not specified**

MeV-scale new interactions

Monday 27 March 2017 14:30 (20 minutes)

Presenter: FARZAN, Yasaman

Session Classification: Neutrino portals to BSM

Contribution ID: 17

Type: **not specified**

Secret neutrino interactions

Monday 27 March 2017 15:00 (20 minutes)

Presenter: SAVIANO, Ninetta (Hamburg U)

Session Classification: Neutrino portals to BSM

Contribution ID: **18**

Type: **not specified**

eV-sterile neutrinos at long baseline

Monday 27 March 2017 16:00 (20 minutes)

Presenter: KAYSER, Boris

Session Classification: Beyond the 3nu scenario in neutrino experiments

Contribution ID: **19**

Type: **not specified**

MeV neutrinos at short-baseline experiments

Monday 27 March 2017 16:20 (15 minutes)

Presenter: BALLETT, Peter (Eidgenoessische Tech. Hochschule Zuerich (ETHZ))

Session Classification: Beyond the 3nu scenario in neutrino experiments

Contribution ID: **20**

Type: **not specified**

GeV neutrinos at SHiP

Monday 27 March 2017 16:40 (15 minutes)

Presenter: Dr SALVADO, Jordi (Instituto de Fisica Corpuscular, University of Valencia)

Session Classification: Beyond the 3nu scenario in neutrino experiments

Contribution ID: 21

Type: **not specified**

Large extra dimensions at oscillation neutrino experiments

Monday 27 March 2017 17:00 (15 minutes)

Presenter: TABRIZI, zahra

Session Classification: Beyond the 3nu scenario in neutrino experiments

Contribution ID: 22

Type: **not specified**

Introduction to discussion

Presenter: AOKI, Mayumi (Kanazawa University)

Session Classification: Neutrino portals to DM and DE

Contribution ID: 23

Type: **not specified**

B-L model for neutrinos and DM

Presenter: RIUS, Nuria

Session Classification: Neutrino portals to DM and DE

Contribution ID: 24

Type: **not specified**

The scotogenic FIMP at the LHC

Presenter: Dr MOLINARO, Emiliano (CP3-Origins, University of Southern Denmark)

Session Classification: Neutrino portals to DM and DE

Contribution ID: 25

Type: **not specified**

Unifying leptogenesis, DM and high energy neutrinos

Presenter: DI BARI, Pasquale (University of Southampton)

Session Classification: Neutrino portals to DM and DE

Contribution ID: 26

Type: **not specified**

Astro and SN neutrinos

Thursday 30 March 2017 16:20 (20 minutes)

Presenter: TAMBORRA, Irene

Session Classification: Neutrino mass and flavour in astrophysics and cosmology

Contribution ID: 27

Type: **not specified**

Solar Neutrinos

Thursday 30 March 2017 16:40 (20 minutes)

Presenter: VISSANI, Francesco (INFN)

Session Classification: Neutrino mass and flavour in astrophysics and cosmology

Contribution ID: 28

Type: **not specified**

Cosmological neutrino masses (including steriles)

Thursday 30 March 2017 17:00 (20 minutes)

Presenter: NIRO, Viviana (Max-Planck-Institut für Kernphysik)

Session Classification: Neutrino mass and flavour in astrophysics and cosmology

Contribution ID: 29

Type: **not specified**

Neutrino kinetic equations

Thursday 30 March 2017 16:00 (20 minutes)

Presenter: GHIGLIERI, Jacopo (CERN)

Session Classification: Neutrino mass and flavour in astrophysics and cosmology

Contribution ID: **30**

Type: **not specified**

Overview

Thursday 30 March 2017 09:30 (25 minutes)

Presenter: HIRSCH, Martin (IFIC/CSIC, University of Valencia)

Session Classification: Prospects in neutrinoless double-beta decay and other lepton number violating searches

Contribution ID: **31**

Type: **not specified**

LNV searches and connection to leptogenesis

Thursday 30 March 2017 09:55 (20 minutes)

Presenter: HARTZ, Julia

Session Classification: Prospects in neutrinoless double-beta decay and other lepton number violating searches

Contribution ID: 32

Type: **not specified**

LVN versus neutrino masses

Thursday 30 March 2017 10:15 (20 minutes)

Presenter: SANTAMARIA, Arcadi

Session Classification: Prospects in neutrinoless double-beta decay and other lepton number violating searches

Contribution ID: 33

Type: **not specified**

Alternative LNV searches

Thursday 30 March 2017 10:35 (20 minutes)

Presenter: DE GOUVEA, Andre (Northwestern University)

Session Classification: Prospects in neutrinoless double-beta decay and other lepton number violating searches

Contribution ID: 34

Type: **not specified**

ARS Leptogenesis

Thursday 30 March 2017 14:00 (40 minutes)

Presenters: GARBRECHT, Bjorn; RACKER, Jean

Session Classification: Neutrino perspective on baryogenesis

Contribution ID: 35

Type: **not specified**

Resonant leptogenesis

Thursday 30 March 2017 14:40 (20 minutes)

Presenter: Dr TERESI, Daniele (Université Libre de Bruxelles)

Session Classification: Neutrino perspective on baryogenesis

Contribution ID: 36

Type: **not specified**

Leptogenesis via Weinberg operator during phase transition

Thursday 30 March 2017 15:00 (20 minutes)

Presenter: ZHOU, Ye-Ling

Session Classification: Neutrino perspective on baryogenesis

Contribution ID: 37

Type: **not specified**

Rethinking the origin of neutrino mass: the role of gravity.

Friday 31 March 2017 14:30 (1 hour)

Presenter: DVALI, Georgi

Session Classification: Neutrinos & gravitation

Contribution ID: **38**

Type: **not specified**

Neutrino–antineutrino mass splitting in the Standard Model

Friday 31 March 2017 14:00 (20 minutes)

Presenter: TUREANU, Anca

Session Classification: Neutrinos & gravitation

Contribution ID: **39**

Type: **not specified**

Lepton flavour and CP symmetries/violation

Tuesday 28 March 2017 14:00 (20 minutes)

Presenters: Prof. CHEN, Mu-Chun (University of California - Irvine); TANIMOTO, morimitsu (Niigata University)

Session Classification: Flavour symmetries

Contribution ID: 40

Type: **not specified**

Quark and Lepton flavour and CP symmetries/violation

Tuesday 28 March 2017 14:30 (20 minutes)

Presenter: ANTUSCH, Stefan (MPI of Physics, Munich)

Session Classification: Flavour symmetries

Contribution ID: 41

Type: **not specified**

Flavour and CP symmetries beyond fermion masses and mixings

Tuesday 28 March 2017 15:00 (20 minutes)

Presenters: SMIRNOV, Alexei (ICTP); VOLKAS, Raymond (The University of Melbourne)

Session Classification: Flavour symmetries

Contribution ID: 42

Type: **not specified**

Channels and observables for neutrino mass models at colliders

Presenter: HAN, Tao (University of Pittsburgh)

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 43

Type: **not specified**

Where we are now with the LHC searches

Presenter: DE ROECK, Albert (CERN)

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 44

Type: **not specified**

Status for theoretical calculations for collider searches

Presenter: RUIZ, Richard (Fermi National Accelerator Lab. (US))

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 45

Type: **not specified**

Theoretical motivation for collider searches of neutrino mass models

Presenter: PETCOV, Serguey (SISSA/INFN, Trieste, Italy)

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 46

Type: **not specified**

Introduction to discussion

Tuesday 28 March 2017 16:00 (10 minutes)

Presenter: AOKI, Mayumi (Kanazawa University)

Session Classification: Neutrino portals to Dark Matter

Contribution ID: 47

Type: **not specified**

Sterile Neutrino Portal to DM

Tuesday 28 March 2017 16:10 (20 minutes)

Presenter: RIUS, Nuria (Valencia University)

Session Classification: Neutrino portals to Dark Matter

Contribution ID: 48

Type: **not specified**

The scotogenic FIMP at the LHC

Presenter: MOLINARO, Emiliano (CP3-Origins, University of Southern Denmark)

Session Classification: Neutrino portals to Dark Matter

Contribution ID: 49

Type: **not specified**

Unifying leptogenesis, DM and high energy neutrinos

Tuesday 28 March 2017 16:35 (20 minutes)

Presenter: DI BARI, Pasquale (University of Southampton)

Session Classification: Neutrino portals to Dark Matter

Contribution ID: 50

Type: **not specified**

Channels and observables for neutrino mass models at colliders

Wednesday 29 March 2017 15:30 (10 minutes)

Presenter: HAN, Tao (University of Pittsburgh)

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 51

Type: **not specified**

Where are we now with LHC searches

Wednesday 29 March 2017 15:50 (15 minutes)

Presenter: DE ROECK, Albert (CERN)

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 52

Type: **not specified**

Status for theoretical calculations for collider searches

Wednesday 29 March 2017 16:10 (15 minutes)

Presenter: RUIZ, Richard

Session Classification: How to improve LHC searches for neutrino related physics

Contribution ID: 53

Type: **not specified**

Theoretical motivation for collider searches of neutrino mass models

Wednesday 29 March 2017 16:30 (20 minutes)

Presenters: MOLINARO, Emiliano (CP3-Origins, University of Southern Denmark); PETCOV, Serguey (SISSA/INFN, Trieste, Italy)

Session Classification: How to improve LHC searches for neutrino related physics