

8th SYMPOSIUM ON LARGE TPCs FOR LOW-ENERGY RARE EVENT DETECTION



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Session Classification: 1

Contribution ID: 2

Type: **not specified**

Introduction

Presenter: Dr GIOMATARIS, Ioannis (CEA-Saclay)

Session Classification: 1

Contribution ID: 3

Type: **not specified**

Neutrino physics

Presenter: SMIRNOV, Alexei (Max-Planck-Institute for Nuclear Physics)

Session Classification: 1

Contribution ID: 4

Type: **not specified**

Neutrino1

Session Classification: 1

Contribution ID: 5

Type: **not specified**

Neutrino1

Session Classification: 1

Contribution ID: 6

Type: **not specified**

Welcome

Session Classification: Neutrino

Contribution ID: 7

Type: **not specified**

Introduction

Presenter: Dr GIOMATARIS, Ioannis (CEA-Saclay)

Session Classification: Neutrino

Contribution ID: 8

Type: **not specified**

Neutrino physics

Presenter: SMIRNOV, Alexei (Max-Planck-Institute for Nuclear Physics)

Session Classification: Neutrino

Contribution ID: 9

Type: **not specified**

Theoretical aspects

Session Classification: Neutrino

Contribution ID: **10**

Type: **not specified**

Neutrino1

Session Classification: Neutrino

Contribution ID: **11**

Type: **not specified**

C1

Session Classification: Neutrino

Contribution ID: 12

Type: **not specified**

C2

Session Classification: Neutrino

Contribution ID: **13**

Type: **not specified**

C3

Session Classification: Neutrino

Contribution ID: 14

Type: **not specified**

C4

Session Classification: Neutrino

Contribution ID: 15

Type: **not specified**

C1

Session Classification: Neutrino

Contribution ID: 16

Type: **not specified**

Determining Neutrino Properties from Supernova Neutrinos

Contribution ID: 17

Type: **not specified**

Supernova Neutrino Detection Overview

Contribution ID: **18**

Type: **not specified**

Determining Neutrino Properties from Supernova Neutrinos

Presenter: SCHOLBERG, Kate (Duke University)

Session Classification: Workshop on Supernova

Contribution ID: 19

Type: **not specified**

Supernova Neutrino Detection Overview

Session Classification: Workshop on Supernova

Contribution ID: 20

Type: **not specified**

A Status Report on Core Collapse Supernova Modeling

Contribution ID: 21

Type: **not specified**

A Status Report on Core Collapse Supernova Modeling

Session Classification: Workshop on Supernova

Contribution ID: 22

Type: **not specified**

Neutrinos and heavy element synthesis

Presenter: SURMAN, Rebecca (Union College)

Session Classification: Workshop on Supernova

Contribution ID: 23

Type: **not specified**

Determining Neutrino Properties from Supernova Neutrinos

Presenter: SCHOLBERG, Kate (Duke University)

Session Classification: Workshop on Supernova

Contribution ID: 24

Type: **not specified**

Supernova Neutrino Detection Overview

Session Classification: Workshop on Supernova

Contribution ID: 25

Type: **not specified**

A Status Report on Core Collapse Supernova Modeling: Successes to Date and What Lies Ahead

Session Classification: Workshop on Supernova

Contribution ID: 26

Type: **not specified**

Neutrinos and heavy element synthesis

Presenter: SURMAN, Rebecca (Union College)

Session Classification: Workshop on Supernova

Contribution ID: 27

Type: **not specified**

Registration

Contribution ID: 28

Type: **not specified**

Review on neutrino physics

Monday, 5 December 2016 09:15 (35 minutes)

Presenter: SMIRNOV, Alexei (Max-Planck-Institute for Nuclear Physics)

Contribution ID: 29

Type: **not specified**

Searching for the neutrinoless double beta decay with a Xenon gas TPC: The NEXT experiment

Monday, 5 December 2016 16:21 (20 minutes)

Presenter: MONRABAL, Francesc (University of Texas at Arlington)

Contribution ID: **30**

Type: **not specified**

Searches for Dark Matter at Colliders

Monday, 5 December 2016 12:00 (30 minutes)

Presenter: SCIOCCA, Gabriella (Brandeis University (US))

Contribution ID: **31**

Type: **not specified**

Neutrino4

Contribution ID: 32

Type: **not specified**

Neutrino5

Contribution ID: 33

Type: **not specified**

Progress towards barium daughter tagging in ^{136}Xe decay using single molecule fluorescence imaging

Monday, 5 December 2016 11:40 (20 minutes)

Presenter: Dr MCDONALD, Austin

Contribution ID: **34**

Type: **not specified**

TBD

Contribution ID: 35

Type: **not specified**

Determining Neutrino Properties from Supernova Neutrinos

Wednesday, 7 December 2016 11:40 (30 minutes)

Presenter: SCHOLBERG, Kate (Duke University)

Contribution ID: **36**

Type: **not specified**

Workshop on Supernova

Wednesday, 7 December 2016 10:30 (5 minutes)

Contribution ID: 37

Type: **not specified**

Neutrinos and Gravitational Waves from CCSNe

Wednesday, 7 December 2016 11:10 (30 minutes)

Presenter: PAGLIAROLI, Giulia (INFN)

Contribution ID: **38**

Type: **not specified**

Neutrinos as a probe of supernova explosion dynamics

Wednesday, 7 December 2016 14:00 (30 minutes)

Presenter: Prof. MUELLER, Bernhard

Contribution ID: 39

Type: **not specified**

Status and neutrino probes of failed explosions

Wednesday, 7 December 2016 12:10 (30 minutes)

Presenter: HORIUCHI, Shunsaku (Virginia Tech)

Contribution ID: 40

Type: **not specified**

Dark Matter at the crossroads: many constraints and some new ideas

Tuesday, 6 December 2016 09:00 (30 minutes)

Presenter: CIRELLI, Marco (CNRS LPTHE Jussieu)

Contribution ID: 41

Type: **not specified**

TREX-DM: a Low background Micromegas-TPC for low-mass WIMP searches

Tuesday, 6 December 2016 15:15 (20 minutes)

Presenter: IGUAZ GUTIERREZ, Francisco Jose (Universidad de Zaragoza (ES))

Contribution ID: 42

Type: **not specified**

Neutrinos and heavy element synthesis

Wednesday, 7 December 2016 14:30 (30 minutes)

Presenter: SURMAN, Rebecca (Union College)

Contribution ID: 43

Type: **not specified**

Supernova Neutrino Detection Overview

Wednesday, 7 December 2016 15:30 (30 minutes)

Presenter: Dr NAKAHATA, Masayuki

Contribution ID: 44

Type: **not specified**

A Status Report on Core Collapse Supernova Modeling: Successes to Date and What Lies Ahead

Wednesday, 7 December 2016 15:00 (30 minutes)

Presenter: Dr MEZZACAPPA, Tony

Contribution ID: 45

Type: **not specified**

Presupernova evolution and explosive nucleosynthesis of the progenitors of core collapse supernovae

Wednesday, 7 December 2016 10:40 (30 minutes)

Presenter: LIMONGI, Marco (INAF-Osservatorio Astronomico di Roma)

Contribution ID: 46

Type: **not specified**

Summary talk

Wednesday, 7 December 2016 16:00 (1 hour)

Presenter: HALZEN, Francis (University of Wisconsin)

Contribution ID: 47

Type: **not specified**

GEM-based TPC optically read out for R&D purposes

Wednesday, 7 December 2016 09:20 (20 minutes)

Summary

Presenter: Mr BRUNBAUER, Florian Maximilian (CERN)

Contribution ID: 48

Type: **not specified**

Caliste-MM : A New Concept of Gaseous Spectro-Polarimeter for Soft X-Ray astrophysics

Wednesday, 7 December 2016 09:00 (20 minutes)

Presenter: Mr SERRANO, Paul

Contribution ID: 49

Type: **not specified**

A picosecond Micromegas EUV photodetector

Wednesday, 7 December 2016 10:10 (20 minutes)

Presenter: PAPAEVANGELOU, Thomas (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Contribution ID: 52

Type: **not specified**

LUX results and future prospects

Tuesday, 6 December 2016 11:00 (30 minutes)

Presenter: GAITSKELL, Richard (Brown University)

Contribution ID: 53

Type: **not specified**

NEWS experiment: search of ultra- light WIMPs

Tuesday, 6 December 2016 14:00 (30 minutes)

Presenter: GERBIER, Gilles (Queen's University)

Contribution ID: 54

Type: **not specified**

Latest solar axion results and prospects

Tuesday, 6 December 2016 16:05 (30 minutes)

Presenter: GARCIA IRASTORZA, Igor (Universidad de Zaragoza (ES))

Contribution ID: 55

Type: **not specified**

The WA105-3x1x1 m3 dual phase LAr-TPC demonstrator

Monday, 5 December 2016 14:00 (30 minutes)

Presenter: MURPHY, Sebastien (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 56

Type: **not specified**

Prototyping the single phase LArTPC DUNE far detector design

Monday, 5 December 2016 14:30 (20 minutes)

Presenter: WALLBANK, Michael

Contribution ID: 57

Type: **not specified**

MicroBooNE

Monday, 5 December 2016 14:50 (20 minutes)

Presenter: MOONEY, Michael

Contribution ID: 58

Type: **not specified**

The LArIAT experiment: first measurement of the inclusive total pion cross-section in Argon

Monday, 5 December 2016 15:10 (20 minutes)

Presenter: Dr BLASZCYK, Flor de Maria (BU, USA)

Contribution ID: 59

Type: **not specified**

New TPCs for the upgrade of the T2K Near detector

Monday, 5 December 2016 09:50 (30 minutes)

Presenter: ZITO, Marco (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Contribution ID: 61

Type: **not specified**

A TPC as high performance gamma-ray telescope and polarimeter: polarisation measurement in a beam between 1.7 and 74MeV with HARPO

Wednesday, 7 December 2016 09:40 (30 minutes)

Presenter: Mr GROS, Philippe

Contribution ID: 62

Type: **not specified**

REST v2.0 : A data analysis and simulation framework for micro-patterned readout detectors.

Tuesday, 6 December 2016 16:35 (20 minutes)

Presenter: GALAN LACARRA, Javier (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Contribution ID: 64

Type: **not specified**

Cubic sphere for rare event search

Presenter: Dr NAVICK, Xavier Francois

Contribution ID: 65

Type: **not specified**

Directional Dark Matter Detection with MIMAC

Tuesday, 6 December 2016 09:30 (25 minutes)

Presenter: SANTOS, Daniel Eduardo (LPSC-Grenoble/CNRS-IN2P3/UJF/INP)

Contribution ID: **66**

Type: **not specified**

Status of the XENON1T experiment

Tuesday, 6 December 2016 11:30 (30 minutes)

Summary

Presenter: Dr SIMGEN, Hardy (MPIK)

Contribution ID: **69**

Type: **not specified**

Panda-X experiment and new results

Tuesday, 6 December 2016 12:00 (30 minutes)

Presenter: Dr GIBONI, Karl

Contribution ID: 70

Type: **not specified**

Secondary scintillation of xenon with sub-percent concentrations of molecular additive (CO₂, CH₄ and CF₄) for HPXe optical TPCs

Monday, 5 December 2016 17:05 (20 minutes)

Presenter: Dr HENRIQUES, Carlos

Contribution ID: 71

Type: **not specified**

Micromegas based muon telescopes for the ScanPyramids mission: performance and first results

Monday, 5 December 2016 10:20 (30 minutes)

Presenter: ATTIE, David (CEA/DSM/DAPNIA/SPP)

Contribution ID: 72

Type: **not specified**

Review of neutrinoless double beta decay

Monday, 5 December 2016 11:10 (30 minutes)

Presenter: SAAKYAN, Ruben (UCL)

Contribution ID: 73

Type: **not specified**

R&D towards spherical LXe TPC

Monday, 5 December 2016 16:45 (20 minutes)

Presenter: Dr HIROYUKI, Sekiya (University of Tokyo)

Contribution ID: 74

Type: **not specified**

Cygnus project

Tuesday, 6 December 2016 09:55 (25 minutes)

Presenter: SPOONER, Neil (University of Sheffield)

Contribution ID: 75

Type: **not specified**

Light Dark Matter search with NEWS-LSM detector

Tuesday, 6 December 2016 14:30 (15 minutes)

Presenter: Dr DASTGHEIBI FARD, Ali

Contribution ID: 76

Type: **not specified**

XEMIS: a single-phase liquid xenon TPC for 3gamma medical imaging

Tuesday, 6 December 2016 16:55 (20 minutes)

Presenter: GALLEGO MANZANO, Lucia (Subatech)

Contribution ID: 77

Type: **not specified**

On the possibility of positive-ion detection in high-pressure TPCs

Monday, 5 December 2016 17:45 (20 minutes)

Presenter: ARAZI, Lior (Weizmann Institute of Science)

Contribution ID: 78

Type: **not specified**

ProtoDUNE Dual-Phase

Monday, 5 December 2016 15:30 (20 minutes)

Presenter: GALYMOV, Vyacheslav (Universite Claude Bernard-Lyon I (FR))

Contribution ID: 79

Type: **not specified**

Microscopic simulation of Xenon-based Optical TPCs in the presence of molecular additives

Monday, 5 December 2016 17:25 (20 minutes)

Presenter: GONZALEZ DIAZ, Diego (Uludag University (TR))

Contribution ID: **80**

Type: **not specified**

The Quad: a general purpose modular readout system for TPCs

Tuesday, 6 December 2016 10:20 (20 minutes)

Presenter: VAN DER GRAAF, Harry (Nikhef National institute for subatomic physics (NL))

Contribution ID: **81**

Type: **not specified**

New developments of the spherical detector sensor

Tuesday, 6 December 2016 14:45 (15 minutes)

Presenter: Prof. SAVVIDIS, Ilias

Contribution ID: 82

Type: **not specified**

Session leader: A. Delbart

Contribution ID: **83**

Type: **not specified**

Cubic sphere for rare event search

Tuesday, 6 December 2016 15:00 (15 minutes)

Presenter: NAVICK, Xavier Francois (CEA)