

Technical Meeting on Nuclear Data Needs for Antineutrino Spectra Applications

Report of Contributions

Contribution ID: 1

Type: **not specified**

SNOWMASS 2021 WHITE PAPER

Monday, 16 January 2023 10:50 (45 minutes)

Presenter: LITTLEJOHN, Bryce (Illinois Institute of Technology)

Session Classification: Reactor antineutrino measurements

Contribution ID: 2

Type: **not specified**

Measurement of residual reactor antineutrino by Double Chooz

Monday, 16 January 2023 09:00 (40 minutes)

Presenter: ONILLON, Anthony

Session Classification: Reactor antineutrino measurements

Contribution ID: 3

Type: **not specified**

Daya Bay I-Isotope spectrum, flux evolution and joint analysis w PROSPECT

Monday, 16 January 2023 11:35 (40 minutes)

Presenter: AN, Fengpeng (Sun Yat-sen University)

Session Classification: Reactor antineutrino measurements

Contribution ID: 4

Type: **not specified**

Daya Bay II-high-energy neutrinos, oscillations

Monday, 16 January 2023 12:15 (30 minutes)

Presenter: ZHAN, Liang

Session Classification: Reactor antineutrino measurements

Contribution ID: 5

Type: **not specified**

RENO Experiment

Monday, 16 January 2023 09:40 (40 minutes)

Presenter: YOO, Jonghee (Seoul National University)

Session Classification: Reactor antineutrino measurements

Contribution ID: 6

Type: **not specified**

PROSPECT I

Monday, 16 January 2023 14:15 (40 minutes)

Presenter: BOWDEN, Nathaniel (Lawrence Livermore National Laboratory)

Session Classification: Reactor antineutrino measurements

Contribution ID: 7

Type: **not specified**

SOLID Experiment

Monday, 16 January 2023 14:55 (40 minutes)

Session Classification: Reactor antineutrino measurements

Contribution ID: 8

Type: **not specified**

STEREO Experiment

Monday, 16 January 2023 15:45 (40 minutes)

Presenter: LHUILLIER, David (CEA)

Session Classification: Reactor antineutrino measurements

Contribution ID: 9

Type: **not specified**

NUCLEUS Experiment

Monday, 16 January 2023 16:25 (40 minutes)

Presenter: LASSERRE, Thierry (CEA)

Session Classification: Reactor antineutrino measurements

Contribution ID: **10**

Type: **not specified**

NEOS Experiment

Tuesday, 17 January 2023 09:00 (40 minutes)

Presenter: SEO, Seon-Hee (Institute of Basic Science)

Session Classification: Reactor antineutrino measurements

Contribution ID: 11

Type: **not specified**

DANSS Experiment

Tuesday, 17 January 2023 09:40 (40 minutes)

Presenter: SVIRIDA, Dmitry (NRC Kurchatov Institute)

Session Classification: Reactor antineutrino measurements

Contribution ID: 12

Type: **not specified**

JUNO-TAO Experiment

Tuesday, 17 January 2023 10:50 (40 minutes)

Presenter: LI, Ruhui (IHEP)

Session Classification: Reactor antineutrino measurements

Contribution ID: 13

Type: **not specified**

JUNO Experiment

Tuesday, 17 January 2023 11:30 (40 minutes)

Presenter: YU, Zeyuan (Institute of High Energy Physics, CAS, Beijing)

Session Classification: Reactor antineutrino measurements

Contribution ID: 14

Type: **not specified**

PROSPECT II

Tuesday, 17 January 2023 12:10 (40 minutes)

Presenter: HEEGER, Karsten

Session Classification: Reactor antineutrino measurements

Contribution ID: 15

Type: **not specified**

NU TOOLS

Tuesday, 17 January 2023 14:15 (40 minutes)

Presenter: FOXE, Michael (Pacific Northwest National Laboratory)

Session Classification: Reactor antineutrino applications

Contribution ID: 16

Type: **not specified**

Mobile Antineutrino Demonstrator

Tuesday, 17 January 2023 14:55 (40 minutes)

Presenter: BOWDEN, Nathaniel (LLNL)

Session Classification: Reactor antineutrino applications

Contribution ID: 17

Type: **not specified**

CHANDLER Experiment

Tuesday, 17 January 2023 15:50 (40 minutes)

Presenter: LINK, Jonathan (Virginia Tech)

Session Classification: Reactor antineutrino applications

Contribution ID: 18

Type: **not specified**

Update on Antineutrino-based Safeguard Approaches for Spent Nuclear Fuel

Tuesday, 17 January 2023 16:30 (30 minutes)

Presenter: SCHNELLBACH, Yan (RWTH Aachen)

Session Classification: Reactor antineutrino applications

Contribution ID: 19

Type: **not specified**

COHERENT Experiment

Tuesday, 17 January 2023 17:00 (40 minutes)

Presenter: EFREMENKO, Yuri (University of Tennessee)

Session Classification: Reactor antineutrino applications

Contribution ID: 20

Type: **not specified**

Antineutrino modelling overview

Wednesday, 18 January 2023 09:00 (45 minutes)

Presenter: HUBER, Patrick (Virginia Tech.)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 21

Type: **not specified**

SUMMATION CALCULATIONS-BNL

Wednesday, 18 January 2023 09:45 (35 minutes)

Presenter: SONZOGNI, Alessandro (BNL)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 22

Type: **not specified**

SUMMATION CALCULATIONS-NANTES

Wednesday, 18 January 2023 10:50 (40 minutes)

Presenter: FALLOT, Muriel (Subatech (CNRS-in2p3, Nantes Univ., IMT Atlantique))

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 23

Type: **not specified**

New Ab-initio reactor calculations

Wednesday, 18 January 2023 11:30 (40 minutes)

Presenter: PERISSE, Lorenzo (CNRS)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 24

Type: **not specified**

CONFLUX - A Flexible, Modular Reactor Neutrino Flux Calculation Framework

Wednesday, 18 January 2023 12:10 (30 minutes)

Presenter: ZHANG, Xianyi (Lawrence Livermore National Lab)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 25

Type: **not specified**

Nuclear data measurements at ANL

Wednesday, 18 January 2023 14:10 (40 minutes)

Presenter: KONDEV, Filip (Argonne National Laboratory)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 26

Type: **not specified**

Nuclear data measurements at ORNL

Wednesday, 18 January 2023 14:50 (40 minutes)

Presenters: RASCO, Bertis (ORNL); RYKACZEWSKI, Krzysztof (Oak Ridge National Laboratory)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 27

Type: **not specified**

Nuclear data measurements-IFIC/Valencia-Nantes

Wednesday, 18 January 2023 15:50 (40 minutes)

Presenter: ALGORA, Alejandro (IFIC (CSIC-Univ. of Valencia))

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 28

Type: **not specified**

Combining reactor fission gas data with antineutrino data

Wednesday, 18 January 2023 16:30 (40 minutes)

Presenter: HAYES-STERBENZ, Anna Catherine (LANL)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 29

Type: **not specified**

Fission Yields Modelling and Evaluation

Wednesday, 18 January 2023 17:10 (30 minutes)

Presenter: LOVELL, Amy (LANL)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 30

Type: **not specified**

Implementation of a comprehensive Monte-Carlo-type fit procedure in GEF

Thursday, 19 January 2023 09:00 (30 minutes)

Presenter: SCHMIDT, Karl-Heinz (Retired from GSI Helmholtz-Zentrum, Darmstadt, Germany)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 31

Type: **not specified**

Beta spectroscopy needs and impact on the global data set-Hayen

Thursday, 19 January 2023 09:30 (30 minutes)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 32

Type: **not specified**

BNL contribution II

Thursday, 19 January 2023 10:00 (20 minutes)

Presenter: MATTERA, Andrea (Brookhaven National Laboratory)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 33

Type: **not specified**

BNL contribution III

Thursday, 19 January 2023 10:20 (15 minutes)

Presenter: KIM, Samuel (Brookhaven National Laboratory)

Session Classification: Reactor antineutrino modelling & nuclear data

Contribution ID: 40

Type: **not specified**

Introduction

Monday, 16 January 2023 08:45 (15 minutes)

Presenter: DIMITRIOU, Paraskevi (International Atomic Energy Agency)

Session Classification: Opening session