

# **International Neutrino Summer School 2021**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Introduction to the School / Mini-Projects

*Monday, August 2, 2021 2:45 PM (15 minutes)*

**Presenters:** KOPP, Joachim (CERN); DE ROECK, Albert (CERN); LEE, Claire (Fermi National Accelerator Lab. (US)); SHAKYA, Bibhushan (Deutsches Elektronen-Synchrotron (DE))

Contribution ID: 2

Type: **not specified**

## Neutrino Mixing and Oscillations

*Monday, August 2, 2021 3:00 PM (1h 15m)*

**Presenter:** PASCOLI, Silvia (IPPP Durham and Bologna U)

Contribution ID: 3

Type: **not specified**

## Making a Neutrino Beam

*Monday, August 2, 2021 4:30 PM (1h 15m)*

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory (US))

Contribution ID: 4

Type: **not specified**

## Neutrino Mixing and Oscillations

*Tuesday, August 3, 2021 3:00 PM (1h 15m)*

**Presenter:** PASCOLI, Silvia (IPPP Durham and Bologna U)

Contribution ID: 5

Type: **not specified**

## Neutrino Mixing and Oscillations

*Wednesday, August 4, 2021 3:00 PM (1h 15m)*

**Presenter:** PASCOLI, Silvia (IPPP Durham and Bologna U)

Contribution ID: 6

Type: **not specified**

## Making a Neutrino Beam

*Tuesday, August 3, 2021 4:30 PM (1h 15m)*

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory (US))

Contribution ID: 7

Type: **not specified**

## Neutrino Interaction Cross Sections

*Monday, August 2, 2021 6:00 PM (1h 15m)*

**Presenter:** DOLAN, Stephen (CERN)



Contribution ID: 8

Type: **not specified**

## Neutrino Interaction Cross Sections

*Tuesday, August 3, 2021 6:00 PM (1h 15m)*

**Presenter:** DOLAN, Stephen (CERN)

Contribution ID: 9

Type: **not specified**

## Neutrino Mass Models

*Wednesday, August 4, 2021 4:30 PM (1h 15m)*

**Presenter:** DE GOUVEA, Andre (Northwestern University)

Contribution ID: **10**

Type: **not specified**

## Neutrino Mass Models

*Friday, August 6, 2021 4:30 PM (1h 15m)*

**Presenter:** DE GOUVEA, Andre (Northwestern University)

Contribution ID: 11

Type: **not specified**

## Supernova Neutrinos

*Wednesday, August 4, 2021 6:00 PM (1h 15m)*

**Presenter:** TAMBORRA, Irene

Contribution ID: 12

Type: **not specified**

## Supernova Neutrinos

*Friday, August 6, 2021 6:00 PM (1h 15m)*

**Presenter:** TAMBORRA, Irene

Contribution ID: 13

Type: **not specified**

## Water Čerenkov Detectors

*Thursday, August 5, 2021 3:00 PM (1h 15m)*

**Presenter:** NAKAYA, Tsuyoshi (Kyoto University)

Contribution ID: 14

Type: **not specified**

## The CERN Neutrino Platform

*Thursday, August 5, 2021 4:30 PM (45 minutes)*

**Presenter:** DE ROECK, Albert (CERN)

Contribution ID: 15

Type: **not specified**

## Virtual Tour of the CMS Experiment

*Thursday, August 5, 2021 5:30 PM (1 hour)*



Contribution ID: 16

Type: **not specified**

## Neutrinoless Double Beta Decay

*Friday, August 6, 2021 3:00 PM (1h 15m)*

**Presenter:** HARZ, Julia (Technical University of Munich (TUM))

Contribution ID: 17

Type: **not specified**

## Neutrino Astronomy

*Monday, August 9, 2021 3:00 PM (1h 15m)*

**Presenter:** ARGÜELLES-DELGADO, Carlos A. (Harvard University)

Contribution ID: **18**

Type: **not specified**

## Neutrino Astronomy

*Tuesday, August 10, 2021 3:00 PM (1h 15m)*

**Presenter:** ARGÜELLES-DELGADO, Carlos A. (Harvard University)

Contribution ID: 19

Type: **not specified**

## Reactor Neutrinos

*Monday, August 9, 2021 4:30 PM (1h 15m)*

**Presenter:** HUBER, Patrick

Contribution ID: 20

Type: **not specified**

## Reactor Neutrinos

*Tuesday, August 10, 2021 6:00 PM (1h 15m)*

**Presenter:** HUBER, Patrick

Contribution ID: 21

Type: **not specified**

## Direct Neutrino Mass Measurements

*Monday, August 9, 2021 6:00 PM (1h 15m)*

**Presenter:** FORMAGGIO, Joseph

Contribution ID: 22

Type: **not specified**

## Neutrinos in Cosmology

*Tuesday, August 10, 2021 4:30 PM (1h 15m)*

**Presenter:** BARENBOIM, Gabriela (University of Valencia & IFIC (UV-CSIC))

Contribution ID: 23

Type: **not specified**

## Neutrinos in Cosmology

*Wednesday, August 11, 2021 4:30 PM (1h 15m)*

**Presenter:** BARENBOIM, Gabriela (University of Valencia & IFIC (UV-CSIC))



Contribution ID: 24

Type: **not specified**

## Neutrinos and Dark Matter

*Wednesday, August 11, 2021 3:00 PM (1h 15m)*

**Presenter:** CHOUBEY, Sandhya (KTH Royal Institute of Technology, Sweden)

Contribution ID: 25

Type: **not specified**

## Geo-Neutrinos

*Wednesday, August 11, 2021 6:00 PM (1h 15m)*

**Presenter:** SEMENEC, Ingrida (Queen's University)

Contribution ID: 26

Type: **not specified**

## Liquid Argon Detectors

*Thursday, August 12, 2021 3:00 PM (1h 15m)*

**Presenter:** CAVANNA, Flavio (Fermi National Accelerator Lab. (US))

Contribution ID: 27

Type: **not specified**

## Coherent Elastic Neutrino-Nucleus Scattering

*Friday, August 13, 2021 3:00 PM (1h 15m)*

**Presenter:** SCHOLBERG, Kate (Duke University)

Contribution ID: 29

Type: **not specified**

## Virtual Tour of the ProtoDUNE Experiments

*Thursday, August 12, 2021 6:00 PM (1 hour)*

Contribution ID: **32**

Type: **not specified**

## Farewell

*Friday, August 13, 2021 7:15 PM (15 minutes)*

**Presenters:** DE ROECK, Albert (CERN); SHAKYA, Bibhushan (Deutsches Elektronen-Synchrotron (DE)); LEE, Claire (Fermi National Accelerator Lab. (US)); KOPP, Joachim (CERN)

Contribution ID: 33

Type: **not specified**

## **Welcome Message by CERN's Director for Research and Computing**

*Monday, August 2, 2021 2:30 PM (15 minutes)*

**Presenter:** MNICH, Joachim (CERN)

Contribution ID: 34

Type: **not specified**

## To CCQE and Beyond - Group A

*Thursday, August 12, 2021 4:30 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations



Contribution ID: 35

Type: **not specified**

## To CCQE and Beyond - Group B

*Thursday, August 12, 2021 4:37 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: **36**

Type: **not specified**

## To CCQE and Beyond - Group C

*Thursday, August 12, 2021 4:44 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 37

Type: **not specified**

## **Supernova Hunting - Group A**

*Thursday, August 12, 2021 4:51 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: **38**

Type: **not specified**

## **Supernova Hunting - Group B**

*Thursday, August 12, 2021 4:58 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: **39**

Type: **not specified**

## **Sterile Neutrinos**

*Thursday, August 12, 2021 5:05 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 40

Type: **not specified**

## **Coherence in Neutrino Oscillations - Groups A & B**

*Thursday, August 12, 2021 5:12 PM (12 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 41

Type: **not specified**

## **Coherence in Neutrino Oscillations - Group B**

**Session Classification:** Mini-Project Presentations

Contribution ID: 42

Type: **not specified**

## **Sensitivity Studies with GLOBES - Group A**

*Friday, August 13, 2021 4:30 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations



Contribution ID: 43

Type: **not specified**

## **Sensitivity Studies with GLOBES - Group B**

*Friday, August 13, 2021 4:37 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 44

Type: **not specified**

## The Hunt for Red October

*Friday, August 13, 2021 4:51 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 45

Type: **not specified**

## **Are Neutrinos Dirac or Majorana Particles?**

*Friday, August 13, 2021 4:58 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 46

Type: **not specified**

## **Core Collapse Neutrino Event Rates in Realistic Detectors - Group A**

*Friday, August 13, 2021 5:05 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 47

Type: **not specified**

## **Core Collapse Neutrino Event Rates in Realistic Detectors - Group B**

*Friday, August 13, 2021 5:12 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 48

Type: **not specified**

## **Core Collapse Neutrino Event Rates in Realistic Detectors - Group C**

*Friday, August 13, 2021 5:19 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 49

Type: **not specified**

## **Two Subtleties Concerning Neutrino Masses and Oscillations**

*Friday, August 13, 2021 5:26 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 50

Type: **not specified**

## **Solar and Atmospheric Neutrinos**

*Friday, August 13, 2021 6:00 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations



Contribution ID: 51

Type: **not specified**

## Neutrino Oscillations in Matter - Group A

*Friday, August 13, 2021 6:07 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 52

Type: **not specified**

## **Neutrino Oscillations in Matter - Group B**

*Friday, August 13, 2021 6:14 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 53

Type: **not specified**

## Neutrino Oscillations in Matter - Group C

*Friday, August 13, 2021 6:21 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 54

Type: **not specified**

## Mössbauer Neutrinos

*Friday, August 13, 2021 6:28 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 55

Type: **not specified**

## **Making a Neutrino Beam - Group A**

*Friday, August 13, 2021 6:35 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 56

Type: **not specified**

## **Making a Neutrino Beam - Group B**

*Friday, August 13, 2021 6:42 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations

Contribution ID: 57

Type: **not specified**

## **Sensitivity Studies with GLOBES - Group C**

*Friday, August 13, 2021 4:44 PM (5 minutes)*

**Session Classification:** Mini-Project Presentations