



# Report of Contributions



Contribution ID: 1

Type: **not specified**

## Opening Remark

*Monday, 7 March 2022 10:00 (10 minutes)*

**Presenter:** Dr IBE, Masahiro (ICRR)



Contribution ID: 2

Type: **not specified**

## C01 Summary

*Monday, 7 March 2022 13:15 (5 minutes)*

**Session Classification:** C01

Contribution ID: 3

Type: **not specified**

# **Axion in antiferromagnetic insulators**

*Monday, 7 March 2022 13:20 (18 minutes)*

**Presenter:** Dr ISHIWATA, Koji

**Session Classification:** C01

Contribution ID: 4

Type: **not specified**

## **μTRISATN: proposal of new collider experiments**

*Monday, 7 March 2022 13:38 (18 minutes)*

**Presenter:** Dr TAKAURA, Hiromasa

**Session Classification:** C01



Contribution ID: 5

Type: **not specified**

## Demonstration by 180L detector

*Monday, 7 March 2022 11:15 (25 minutes)*

**Presenter:** Dr YOSHIDA, M.

**Session Classification:** B01



Contribution ID: 6

Type: **not specified**

## **Towards 0nu double-beta search with 1000L detector**

*Monday, 7 March 2022 11:40 (20 minutes)*

**Presenter:** Dr ICHIKAWA, A.K.

**Session Classification:** B01

Contribution ID: 7

Type: **not specified**

# Leptogenesis and muon $g-2$ in gauged $U(1)_{L_\mu-L_\tau}$ extension

*Monday, 7 March 2022 13:56 (19 minutes)***Presenter:** Dr EIJIMA, Shintaro**Session Classification:** C01





Contribution ID: 8

Type: **not specified**

## C02 Summary

*Tuesday, 8 March 2022 15:05 (10 minutes)*

**Presenter:** Dr YASUDA

**Session Classification:** C02

Contribution ID: 9

Type: **not specified**

## **Search for sterile neutrinos by IceCube shower events**

*Tuesday, 8 March 2022 15:15 (20 minutes)*

**Presenter:** Dr WANG

**Session Classification:** C02

Contribution ID: 10

Type: **not specified**

# **Pseudo-Nambu-Goldstone Dark Matter Model Inspired by Grand Unification**

*Tuesday, 8 March 2022 15:35 (30 minutes)*

**Presenter:** Dr YAMATSU

**Session Classification:** C02

Contribution ID: 11

Type: **not specified**

# Accuracy improvement of the atmospheric neutrino flux

*Monday, 7 March 2022 17:05 (15 minutes)*

**Presenter:** Dr SATO, Kazufumi (ICRR)

**Session Classification:** A03



Contribution ID: 12

Type: **not specified**

## **Beyond standard model with IceCube**

*Monday, 7 March 2022 17:20 (25 minutes)*

**Presenter:** Dr POLLMANN, Anna (U.Wuppertal/Chiba)

**Session Classification:** A03



Contribution ID: 13

Type: **not specified**

## IceCube-Gen2 OM Study

*Monday, 7 March 2022 17:45 (10 minutes)*

**Presenter:** Dr SHIMIZU , Nobuhiro (Chiba)

**Session Classification:** A03

Contribution ID: 14

Type: **not specified**

## Introduction

*Monday, 7 March 2022 10:10 (10 minutes)*

**Presenter:** HAYATO, Yoshinari

**Session Classification:** A01

Contribution ID: 15

Type: **not specified**

## Recent status of SK/SK-Gd

*Monday, 7 March 2022 10:20 (25 minutes)*

**Presenter:** NAKANO, Yuuki (Kamioka, ICRR)

**Session Classification:** A01



Contribution ID: 16

Type: **not specified**

# Hyper-Kamiokande

*Monday, 7 March 2022 10:45 (25 minutes)*

**Presenter:** IEKI, Kei (Kamioka, ICRR)

**Session Classification:** A01

Contribution ID: 17

Type: **not specified**



*Tuesday, 8 March 2022 13:10 (10 minutes)*

**Presenter:** Dr OKAZAKI, R. (X)

**Session Classification:** XXXXXXX

Contribution ID: **18**

Type: **not specified**

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*Tuesday, 8 March 2022 13:20 (10 minutes)*

**Presenter:** Dr SASAKI, T. (X)

**Session Classification:** XXXXXXX

Contribution ID: 19

Type: **not specified**

XXXXXXXXXXXXSK-GdXXXXXXXXXXXX

*Tuesday, 8 March 2022 13:30 (10 minutes)*

**Presenter:** Dr MAEKAWA, Y.

**Session Classification:** XXXXXXXX

Contribution ID: 20

Type: **not specified**

## Neutrino event reconstruction with neutron detection in SK-Gd

*Tuesday, 8 March 2022 13:40 (10 minutes)*

**Presenter:** Dr MIKI, S. (ICRR)

**Session Classification:** XXXXXX

Contribution ID: 21

Type: **not specified**

# Development of Front-End Electronics for Hyper-Kamiokande; Performance Evaluation of Digitizers

*Tuesday, 8 March 2022 13:50 (10 minutes)*

**Presenter:** Dr KANESHIMA, R. (ICRR)

**Session Classification:** XXXXXX

Contribution ID: 22

Type: **not specified**

## Calibration of energy scale uncertainty based on understanding of Super-Kamiokande detector elements

*Tuesday, 8 March 2022 14:10 (10 minutes)*

**Presenter:** Dr SHIMIZU, K. (ICRR)

**Session Classification:** XXXXXXX

Contribution ID: 23

Type: **not specified**

# A new pion momentum systematic uncertainty and goodness-of-fit studies for joint analysis of atmospheric and accelerator neutrinos

*Tuesday, 8 March 2022 14:20 (10 minutes)*

**Presenter:** Dr BERNIS, L. (Tokyo Institute of Technology)

**Session Classification:** XXXXXX



Contribution ID: 24

Type: **not specified**

# Non-standard interaction between leptons and heavy quarks

*Monday, 7 March 2022 15:35 (30 minutes)*

**Presenter:** Dr ENDO, Motoi (KEK)

**Session Classification:** XXXX

Contribution ID: 25

Type: **not specified**

# Constraining total neutrino mass through large scale structure measurements at high redshift

*Monday, 7 March 2022 16:05 (30 minutes)*

**Presenter:** Dr MIYATAKE , Hironao (Nagoya University)

**Session Classification:** XXXX

Contribution ID: 26

Type: **not specified**

## **Development of FASER preshower detector to search for right-handed neutrinos**

*Monday, 7 March 2022 16:35 (30 minutes)*

**Presenter:** Dr TAKUBO, Yosuke

**Session Classification:** XXXX

Contribution ID: 27

Type: **not specified**

## Self calibration of LEDs in D-Eggs for IceCube

*Tuesday, 8 March 2022 14:30 (10 minutes)*

**Presenter:** Dr NAGAI, Ryo (Chiba University)

**Session Classification:** XXXXXXX

Contribution ID: 28

Type: **not specified**

## **J-PARC MR and Neutrino Beam**

*Tuesday, 8 March 2022 16:15 (20 minutes)*

**Presenter:** Dr MATSUBARA, T. (KEK)

**Session Classification:** A02



Contribution ID: 29

Type: **not specified**

## T2K $\nu$ Oscillation Analysis

*Tuesday, 8 March 2022 16:35 (20 minutes)*

**Presenter:** Dr KURIBAYASHI, S. (Kyoto)

**Session Classification:** A02



Contribution ID: **30**

Type: **not specified**

## **NINJA nu Cross Section Analysis**

*Tuesday, 8 March 2022 16:55 (20 minutes)*

**Presenter:** Dr KASUMI, A.

**Session Classification:** A02

Contribution ID: 31

Type: **not specified**

# Probing BSM physics with high-energy neutrinos and multimessengers

*Tuesday, 8 March 2022 12:25 (40 minutes)***Presenter:** Dr MURASE, K. (Kyoto U. / Penn. State)**Session Classification:** Invited



Contribution ID: 32

Type: **not specified**

# Momentum reconstruction and proton/pion identification using water-target ECC in the NINJA experiment

*Tuesday, 8 March 2022 14:40 (10 minutes)*

**Presenter:** Dr ODAGAWA, T.

**Session Classification:** XXXXXX

Contribution ID: 33

Type: **not specified**

## **Cogenesis of Dark Matter and Baryon Asymmetries in Scotogenic Model**

*Tuesday, 8 March 2022 14:50 (10 minutes)*

**Presenter:** Dr SAKAI, Y.

**Session Classification:** XXXXXXXX

Contribution ID: 34

Type: **not specified**

## **A04 summary**

*Tuesday, 8 March 2022 10:00 (10 minutes)*

**Presenter:** Dr KUSAKA , A.

**Session Classification:** A04

Contribution ID: 35

Type: **not specified**

**Improved measurements of degree-scale CMB  
B-mode polarization anisotropies with POLARBEAR  
(Satoru Takakura / Colorado U.)**

*Tuesday, 8 March 2022 10:10 (30 minutes)*

**Presenter:** Dr TAKAKURA, S.

**Session Classification:** A04

Contribution ID: 36

Type: **not specified**

## **Development of superconducting detectors and readout systems for next-generation CMB experiments**

*Tuesday, 8 March 2022 10:40 (20 minutes)*

**Presenter:** Dr KIUCHI, K.

**Session Classification:** A04

Contribution ID: 37

Type: **not specified**

## **Introduction of B02**

*Monday, 7 March 2022 14:20 (15 minutes)*

**Presenter:** Dr SATO, O.

**Session Classification:** B02



Contribution ID: **38**

Type: **not specified**

## **Emulsion Production Facility Status**

*Monday, 7 March 2022 14:35 (15 minutes)*

**Presenter:** Dr ROKUJO, H.

**Session Classification:** B02

Contribution ID: 39

Type: **not specified**

## **Development of precise measurement system for gamma-ray observation**

*Monday, 7 March 2022 14:50 (15 minutes)*

**Presenter:** Dr ROKUJO, H.

**Session Classification:** B02