

**Kagoshima Workshop on  
Particles, Fields and Strings  
2023**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Search for lepton flavor violation from dark sector**

*Sunday, 19 February 2023 15:00 (45 minutes)*

**Presenter:** SHIMOMURA, Takashi (Miyazaki U. & Kyushu U.)

Contribution ID: 2

Type: **not specified**

ミューオニウム-反ミューオニウム転換で探るレプト  
ンフレーバー混合

*Sunday, 19 February 2023 15:45 (45 minutes)*

**Presenter:** UESAKA, Yuichi (Kyushu Sangyo U.)

Contribution ID: 3

Type: **not specified**

## レプトン数の時間発展とマヨラナタイプ位相

*Sunday, 19 February 2023 16:45 (45 minutes)*

**Presenter:** SHIMIZU, Yusuke (Hiroshima U.)

Contribution ID: 4

Type: **not specified**

## 鹿児島情報

*Sunday, 19 February 2023 17:30 (20 minutes)*

**Presenter:** ONODA, Soma (Kyushu U.)

Contribution ID: 5

Type: **not specified**

## **Sterile neutrinos and non-standard interactions of neutrinos**

*Monday, 20 February 2023 09:00 (45 minutes)*

**Presenter:** YASUDA, Osamu (Tokyo Metropolitan U.)

Contribution ID: 6

Type: **not specified**

## Leptogenesis in gauged $U(1)_{\{L_{\mu}-L_{\tau}\}}$ model

*Monday, 20 February 2023 09:45 (45 minutes)*

**Presenter:** EIJIMA, Shintaro (ICRR, Tokyo U.)

Contribution ID: 7

Type: **not specified**

## **Modular symmetry in the string EFT**

*Monday, 20 February 2023 11:00 (45 minutes)*

**Presenter:** OTSUKA, Hajime (Kyushu U.)



Contribution ID: 8

Type: **not specified**

## **Flux compactification and the hierarchy problem**

*Monday, 20 February 2023 11:45 (45 minutes)*

**Presenter:** MARU, Nobuhito (NITEP/Osaka Metropolitan U.)

Contribution ID: 9

Type: **not specified**

素粒子実験における弱測定の応用について: **B** 中間子  
を用いた **CP** 非保存測定を例に

*Monday, 20 February 2023 14:00 (45 minutes)*

**Presenter:** TAKUBO, Yosuke (KEK)

Contribution ID: **10**

Type: **not specified**

## **Gradient flow exact renormalization group**

*Monday, 20 February 2023 14:45 (45 minutes)*

**Presenter:** SUZUKI, Hiroshi (Kyushu U.)

Contribution ID: 11

Type: **not specified**

# Machine Learning Exploration of Quark and Lepton Flavor Structures

*Monday, 20 February 2023 16:00 (20 minutes)*

**Presenter:** NISHIMURA, Satsuki (Kyushu U.)

Contribution ID: 12

Type: **not specified**

## フレーバー構造で探る暗黒物質

*Monday, 20 February 2023 16:20 (20 minutes)*

**Presenter:** MIYAO, Coh (Kyushu U.)

Contribution ID: 13

Type: **not specified**

# Fractional topological charge in lattice Abelian gauge theory

*Monday, 20 February 2023 16:40 (20 minutes)*

**Presenter:** ABE, Motokazu (Kyushu U.)

Contribution ID: 14

Type: **not specified**

# **Tensions in cosmology and its implications for new physics**

*Tuesday, 21 February 2023 09:00 (45 minutes)*

**Presenter:** TAKAHASHI, Tomo (Saga U.)

Contribution ID: 15

Type: **not specified**

## **Early cosmology with ultra-relativistic bubble wall expansion**

*Tuesday, 21 February 2023 09:45 (45 minutes)*

**Presenter:** YIN, Wen (Tohoku U.)



Contribution ID: 16

Type: **not specified**

## **Probing axions with the measurements of photon's birefringence**

*Tuesday, 21 February 2023 11:00 (45 minutes)*

**Presenter:** OBATA, Ippai (IPMU, Tokyo U.)

Contribution ID: 17

Type: **not specified**

## 原始揺らぎの量子性は観測できるか？

*Tuesday, 21 February 2023 11:45 (45 minutes)*

**Presenter:** KANNO, Sugumi (Kyushu U.)

Contribution ID: **18**

Type: **not specified**

## **Free Discussion**

*Tuesday, 21 February 2023 14:00 (2 hours)*

Contribution ID: 19

Type: **not specified**

## **What can we learn from the direction of dark matter?**

*Wednesday, 22 February 2023 09:00 (45 minutes)*

**Presenter:** NAGAO, Keiko (Okayama U. of Science)

Contribution ID: 20

Type: **not specified**

## **Lepton flavor violation and DM constraints in a radiative seesaw model**

*Wednesday, 22 February 2023 09:45 (45 minutes)*

**Presenter:** SETO, Osamu (Hokkaido U.)

Contribution ID: 21

Type: **not specified**

## **Link soliton in model with $U(1)_{\text{B-L}}$ and $U(1)_{\text{PQ}}$ symmetries**

*Wednesday, 22 February 2023 11:00 (45 minutes)*

**Presenter:** HAMADA, Yu (KEK)

Contribution ID: 22

Type: **not specified**

## **The origin of pseudo-Nambu-Goldstone Dark Matter**

*Wednesday, 22 February 2023 11:45 (45 minutes)*

**Presenter:** TSUMURA, Koji (Kyushu U.)