

FY2025 ICRR Master and Doctor Workshop

Report of Contributions

Contribution ID: **21**

Type: **not specified**

Welcome Address

Friday, 20 February 2026 09:30 (5 minutes)

Presenter: OGIO, Shoichi

Session Classification: Opening Remarks

Contribution ID: 22

Type: **not specified**

(XXX) XXXXXXXXXXXXXXXXCNXXXXXXXXXXXXXXXXXXXXX
**Study on Particle Identification Using CNN Machine
Learning Methods in Water Cherenkov Detector**

Friday, 20 February 2026 09:35 (12 minutes)

Presenter: NISHIJIMA, Ryotaro

Session Classification: Oral Session

Contribution ID: 23

Type: **not specified**

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Friday, 20 February 2026 09:47 (12 minutes)

Presenter: SHINODA, Ryotaro

Session Classification: Oral Session

Contribution ID: 24

Type: **not specified**

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Friday, 20 February 2026 09:59 (12 minutes)

Presenter: IMAIZUMI, Ginga

Session Classification: Oral Session

Contribution ID: 25

Type: **not specified**

(XXX) Development of a Counting Rate Correction Method for the Detection of Cosmic Ray Transient Events with the ALPAQUITA Air Shower Array

Friday, 20 February 2026 10:11 (12 minutes)

Presenter: SUGIMOTO, Futatsu

Session Classification: Oral Session

Contribution ID: 27

Type: not specified

(XXX)

XX Numerical
study on the evolution of cosmic-ray spectrum in the
turbulent region formed by galactic winds and
accretion flowsX

Friday, 20 February 2026 10:52 (12 minutes)

Presenter: INAMOTO, Ryohei

Session Classification: Oral Session

Contribution ID: 28

Type: **not specified**

(☒☒☒) Cosmic Reionization History and Its Cosmological Implications Probed by Optical and Near-Infrared Spectroscopy

Friday, 20 February 2026 11:04 (12 minutes)

Presenter: KAGEURA, Yuta

Session Classification: Oral Session

Contribution ID: 29

Type: **not specified**

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Friday, 20 February 2026 11:16 (12 minutes)

Presenter: TAKADA, Kazuki

Session Classification: Oral Session

Contribution ID: 31

Type: **not specified**

(XXX) XXXXXXXXXXXXXXXXXXXX Cosmic Strings in
Multi-Step Symmetry Breaking

Friday, 20 February 2026 14:00 (12 minutes)

Presenter: WEN, Yaxuan

Session Classification: Oral Session

Contribution ID: 33

Type: **not specified**

(English) Vision Transformer for event reconstruction in Hyper-Kamiokande far detector

Friday, 20 February 2026 14:24 (12 minutes)

Presenter: CHEN, Shuoyu

Session Classification: Oral Session

Contribution ID: 34

Type: **not specified**

(English) **XENONnT**

Friday, 20 February 2026 14:36 (12 minutes)

Presenter: OTSUZUKI, Kotaro

Session Classification: Oral Session

Contribution ID: 35

Type: **not specified**

**(XXX) Statistical Study on Cosmic Reionization with
Subaru/HSC Imaging and JWST/NIRSpec
Spectroscopic Data
XXXXHSCXXXXJWST/NIRSpecXXXXXXXXXXXXXXXXXXXX**

Friday, 20 February 2026 15:00 (20 minutes)

Presenter: UMEDA, Hiroya
Session Classification: Oral Session

Contribution ID: 36

Type: not specified

(English) Numerical and Analytical Studies of Dynamical Effects of Relativistic Jets on Gamma-Ray Burst Afterglows

[illegible]

Friday, 20 February 2026 15:20 (20 minutes)

Presenter: KUSAFUKA, Yo

Session Classification: Oral Session

Contribution ID: 37

Type: **not specified**

(English) Full-Sky Study of Galactic Cosmic-Ray Anisotropy with the Tibet AS γ and ALPAQUITA Air-Shower Arrays

Friday, 20 February 2026 15:40 (20 minutes)

Presenter: KAWASHIMA, Teruyoshi

Session Classification: Oral Session

Contribution ID: 38

Type: **not specified**

(English) Exploring the Origin of Ultra-High-Energy Cosmic Rays through EeV Neutrino Search with the Telescope Array Surface Detectors

Friday, 20 February 2026 16:00 (20 minutes)

Presenter: TAKAHASHI, Kaoru

Session Classification: Oral Session

Contribution ID: 41

Type: **not specified**

(English) Sterile neutrino dark matter production in a lepton asymmetric universe: theory and observational implications



Friday, 20 February 2026 17:15 (20 minutes)

Presenter: KASAI, Kentaro

Session Classification: Oral Session

Contribution ID: 42

Type: **not specified**

An Evaluation of Systematic Uncertainties Arising from the Observation Direction Approximation in CTAO LST-1 Data Analysis

Friday, 20 February 2026 12:50 (1 hour)

Presenter: NAGATA, Toya

Session Classification: Poster Session

Contribution ID: 43

Type: **not specified**

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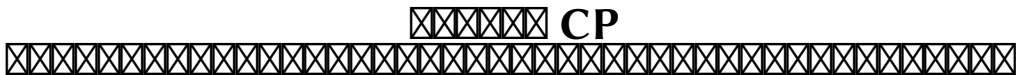
Friday, 20 February 2026 12:50 (1 hour)

Presenter: OKAMURA, Kyosuke

Session Classification: Poster Session

Contribution ID: 44

Type: **not specified**



Friday, 20 February 2026 12:50 (1 hour)

Presenter: HUNG, Tzu-Han

Session Classification: Poster Session

Contribution ID: 45

Type: **not specified**

ALPAQUITAXXXXXXXXXXXXXXXXXXXX

Friday, 20 February 2026 12:50 (1 hour)

Presenter: YAMANAKA, Yuji

Session Classification: Poster Session

Contribution ID: 46

Type: **not specified**

A Study of Cosmic-Ray Electrons in the Tens of TeV energy region with the Tibet Air Shower Experiment

Friday, 20 February 2026 12:50 (1 hour)

Presenter: TAMAKI, Naru

Session Classification: Poster Session

Contribution ID: 47

Type: **not specified**

Study for muon puzzle with TA SD

Friday, 20 February 2026 12:50 (1 hour)

Presenter: TANGE, Yuta

Session Classification: Poster Session

Contribution ID: 48

Type: **not specified**

CTAO

Friday, 20 February 2026 12:50 (1 hour)

Presenter: MORITA, Kai

Session Classification: Poster Session

Contribution ID: 49

Type: **not specified**

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Friday, 20 February 2026 12:50 (1 hour)

Presenter: TOMIYA, Takuya
Session Classification: Poster Session

Contribution ID: 50

Type: **not specified**

Exploring Inelastic Dark Matter with the XENONnT Experiment

Friday, 20 February 2026 12:50 (1 hour)

Presenter: KAMINAGA, Yoshino

Session Classification: Poster Session

Contribution ID: 51

Type: **not specified**

Relationship between Electric Field and Cosmic Ray Count Rate at the ALPACA Site

Friday, 20 February 2026 12:50 (1 hour)

Presenter: MIZUNO, Atsushi

Session Classification: Poster Session

Contribution ID: 52

Type: **not specified**

Analysis of Inclined Air Showers by the TA Surface Detector Array

Friday, 20 February 2026 12:50 (1 hour)

Presenter: KOYAMA, Chisato

Session Classification: Poster Session

Contribution ID: 53

Type: **not specified**

VENUS: Strongly Lensed Clumpy Galaxy at $z \sim 11-12$

Friday, 20 February 2026 12:50 (1 hour)

Presenter: NAKANE, Minami

Session Classification: Poster Session

Contribution ID: 54

Type: **not specified**

Two Faint Little Red Dots Separated by ~ 70 pc Hidden in a Single Galaxy at $z \sim 7$

Friday, 20 February 2026 12:50 (1 hour)

Presenter: YANAGISAWA, Hiroto

Session Classification: Poster Session

Contribution ID: 55

Type: **not specified**

Determining the Optimal Reference Frequency for Estimating Time- Dependent Correction Factors (TDCFs)

Friday, 20 February 2026 12:50 (1 hour)

Presenter: HIDO, Shingo

Session Classification: Poster Session

Contribution ID: 56

Type: **not specified**

Optimizing Searches for Long-Duration Gravitational Waves from Low-Mass Binaries Coalescences

Friday, 20 February 2026 12:50 (1 hour)

Presenter: MURAKAMI, Yasuhiro

Session Classification: Poster Session

Contribution ID: 57

Type: **not specified**

Accurate Estimation of the Spin Distribution of Binary Black Holes Using Gravitational-Wave Data

Friday, 20 February 2026 12:50 (1 hour)

Presenter: KOBAYASHI, Kazuya

Session Classification: Poster Session

Contribution ID: 58

Type: **not specified**

Analysis of Gravitational Waves from Hypermassive Neutron Stars with the Future Sensitivity of KAGRA

Friday, 20 February 2026 12:50 (1 hour)

Presenter: ICHINOSE, Yuto

Session Classification: Poster Session