

Nuclear and Hadron Physics Laboratories Joint Workshop 2025

Report of Contributions

Contribution ID: 3

Type: **not specified**

Development of Deuterium Gas Target for Precision Spectroscopy of Pionic Atoms with Inverse Kinematics

Monday 8 December 2025 09:20 (20 minutes)

Presenter: Mr NAKAHARA (M2), Shuma

Session Classification: Hadron Experiment

Contribution ID: 4

Type: **not specified**

Energy calibration of Superconducting Transition-Edge Sensors in X-ray spectroscopy of muonic atoms

Monday 8 December 2025 09:40 (20 minutes)

Presenter: Mr KAWASAKI (M1), Kaito

Session Classification: Hadron Experiment

Contribution ID: 5

Type: **not specified**

Closing & Workshop Photo

Monday 8 December 2025 12:44 (6 minutes)

Contribution ID: 7

Type: **not specified**

Opening

Monday 8 December 2025 09:15 (5 minutes)

Presenter: Dr SEKIZAWA, Kazuyuki (Institute of Science Tokyo)

Contribution ID: 8

Type: **not specified**

Data-Driven Exploration of the Neutron 3P_2 Pairing Gap Using Cassiopeia A Neutron Star Observational Data

Monday 8 December 2025 11:30 (15 minutes)

Presenter: Mr NAM (M2), Yoonhak

Session Classification: Nuclear Theory

Contribution ID: 9

Type: **not specified**

Computation of Periodic Solutions of One-Dimensional Imaginary TDHF Equations as a Model for Spontaneous Fission

Monday 8 December 2025 11:45 (15 minutes)

Presenter: Mr KOGA (M2), Kotaro

Session Classification: Nuclear Theory

Contribution ID: **10**

Type: **not specified**

Extended Thomas-Fermi Calculations for Nuclear Pasta in the Inner Crust of Neutron Stars

Monday 8 December 2025 12:00 (15 minutes)

Presenter: Mr NAKAMURA (M2), Yo

Session Classification: Nuclear Theory

Contribution ID: 11

Type: **not specified**

Pion Properties in Isospin-Asymmetric Nuclear Matter Using In-Medium Chiral Perturbation Theory

Monday 8 December 2025 10:00 (18 minutes)

Presenter: Mr KWON (M2), Kihong

Session Classification: Hadron Theory

Contribution ID: 12

Type: **not specified**

The Source of Flavor SU(3) Symmetry Breaking of Axial Vector Mesons as Chiral Partners of Vector Mesons

Monday 8 December 2025 10:15 (18 minutes)

Presenter: Mr NAKANE (M2), Yoshito

Session Classification: Hadron Theory

Contribution ID: 13

Type: **not specified**

Configuration Mixing in Mass Spectra of Bottom Baryons Under Strong Magnetic Field

Monday 8 December 2025 10:30 (15 minutes)

Presenter: Mr MAEDA (M2), Taku

Session Classification: Hadron Theory

Contribution ID: 14

Type: **not specified**

Measurement of Deuteron Beam Polarization at RIKEN RIBF

Monday 8 December 2025 11:10 (20 minutes)

Presenter: Mr SUGAHARA (M2), Hiroki

Session Classification: Nuclear Experiment

Contribution ID: **16**

Type: **not specified**

Development and Performance Evaluation of NEOLITH for Multi-Neutron Studies

Monday 8 December 2025 12:24 (20 minutes)

Presenter: Mr CHANDRACHUD (M2), Sisir Malladi

Session Classification: Nuclear Experiment