



# Poster presentation introduction

NuFact 2023

# Many posters to discover!

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- Excellent number and variety of posters. **Thanks a lot to all the presenters!!**
- **29 posters covering all Working Groups**
- Both theoretical and experimental posters available.



# Practical information

- There will be **finger food lunch**, please go around and check out the posters!
- Currently, the space for the poster session is not that big. So, when you get some coffee & food, please stand in line following the green tape attached on the floor.
- **Poster's presenters** will be available from **13:30 to 15:30**.
- From 14:20 to 15:50, for those that signed in the list, there will be the **KYUJANGGAK tour: The Veritable Records of the Joseon Dynasty**
- We will restart with **plenary sessions at 16:00**.



# WG 1 Posters

- **A study of time variations of solar neutrino flux using 5,804 live days of Super-Kamiokande data, Jeong Yeol Yang**
- **Sensitivity study for the nucleon decay with background reduction for the atmospheric neutrino interaction in the Super-Kamiokande, Seunghyun Jung**
- **Combine measurement of  $\theta_{13}$  using reactor antineutrino events rates with neutron capture on hydrogen and Gadolinium at RENO, Sang Yong KIM**
- **Measurement of Reactor Antineutrino Spectra from  $^{235}\text{U}$  and  $^{239}\text{Pu}$  Fission at RENO, Dojin Kim**
- **Reactor Experiment for Neutrinos and Exotics at Hanbit nuclear power plant in Korea, Wonjun Lee**



# WG 2 Posters

- **Nuclear Dependence of Antineutrino Deep Inelastic Scattering in two dimensions at MINERvA**, Sayeed Akhter
- **Inclusive Antineutrino Nucleus Scattering Analysis at MINERvA**, Prameet Kumar Gaur
- **Detecting Charged-Current Neutrino-Nucleus Interactions on Oxygen in a Heavy Water Cherenkov Detector**, Eli Mygatt Ward
- **Quantifying the second resonance effect in neutrino-Argon interaction using DUNE Near Detector**, Lalnuntluanga R
- **Studying Neutrino-Nucleus Interactions at SBND with Muon Neutrino Charged-Current Events with no Pions in the Final State**, Mun Jung Jung



# WG 3 & 4 Posters

- **Machine learning algorithms based on muon monitor data and simulation, Katsuya Yonehara**
- **Proposal for multi-stage cooling of muon beams, Sohtaro Kanda**
- **Study of Beam Effects for Muon Entrance Detector for the muEDM Experiment at PSI, Jun Kai Ng**



# WG 5 Posters

- **Constraining Lorentz Invariance Violation with Future Long-Baseline Experiments**, Pragyanprasu Swain
- **Distinguishing Non-Standard Interaction and Lorentz Invariance Violation at the future long-baseline experiments**, Rukmani Mohanta
- **Exploring Linear Seesaw with Modular  $S_3$  Symmetry**, Mitesh Behera
- **Exploring new-physics effects of scalar NSI at long baseline experiments**, Abinash Medhi
- **Exploring the effects of LIV on the CP-sensitivities of long-baseline experiments**, Arnab Sarker
- **Implications of NSI Effects in Long-Baseline Neutrino Experiments**, Anjan Giri
- **Investigation of scalar Non-Standard Interactions at P2SO and DUNE**, Dinesh Kumar Singha
- **Polarization effects in weak elastic Neutral Current with Non Standard Interactions**, ILMA
- **Rescuing leptogenesis parameter space of inverse seesaw in standard and nonstandard cosmology**, Ananya Mukherjee



# WG 6 Posters

- **Development of water-based liquid scintillator tracker for a precise measurement of neutrino-water interactions, Naoto Onda**
- **Discrimination of Fluor Concentration in Liquid Scintillator Using PMT Waveform and Short-Pass Filter, Nari Kim**
- **Fluor wavelength classification of liquid scintillator using images acquired by CMOS image sensor and deep convolutional neural network, Ji-Young CHOI**
- **The Camera System for the IceCube Upgrade: Simulation Studies of the Antarctic Ice Properties, 지웅 이**
- **The spectrum analysis of light emitted by LED using a CMOS RGB-based image sensor and feasibility study for its application, Hyeon Woo Park**

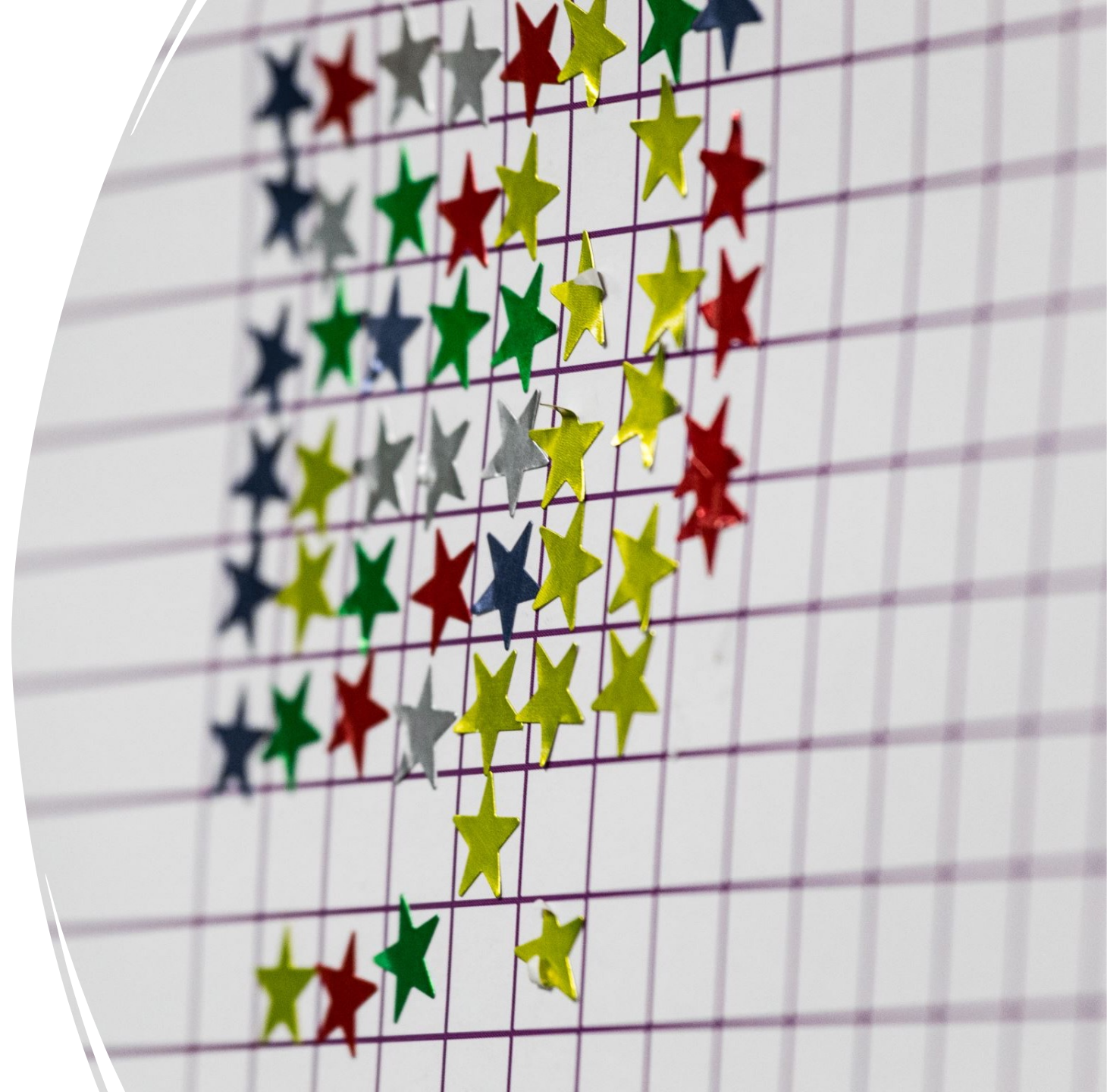




# Award ceremony

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- The NuFACT SPC will award the **best poster** based on the quality of the poster and presentation.
- The **award ceremony will be on the 26th** (Sat) during the closing session.
- The winner must attend the ceremony to get the full credit!



# Reminder: Please participate in the WG7 survey!

- It takes only a couple of minutes and completely anonymous!
- Questions on work-life balance, family impact, discrimination and diversity, and conferences.
- **Thanks to those who already answered, it is really appreciated!**

