

## **Session Program**

**19-21 Aug 2025**



# **Southeast Asian Workshop on Nuclear and Hadron Physics**

## ***Young researcher session***

Universitas Gadjah Mada, Department of Physics

## Tuesday 19 August

14:05

### Young researcher session: #1

**Session** | **Location:** Universitas Gadjah Mada, Department of Physics | **Convener:** Parada Hutaauruk

14:05–14:20

#### Probing the Spectroscopy and Electromagnetic Structure of Heavy Meson within the Light-Front Quark Model

##### Speaker

Muhammad Ridwan

14:20–14:35

#### Constraining the proton transverse partonic distribution through coherent $J/\psi$ production at HERA within a three-hotspot model

##### Speaker

Muhammad Raihannafi Fadhel

14:35–14:50

#### Generalized parton distributions for the pion within the proper-time Nambu-Jona-Lasinio model

##### Speaker

Fernando Chandra

14:50–15:05

#### Large- $N_c$ scalings in Chiral Effective Field Theory of the Contact Interactions for Octet and Decuplet baryons

##### Speaker

Chindanai Bubpatate

15:05

15:35

### Young researcher session: #2

**Session** | **Location:** Universitas Gadjah Mada, Department of Physics | **Convener:** Ilham Prasetyo

15:35–15:50

#### Collision Parameter Probability Distribution Prediction in Heavy Ion Collision with Kolmogorov-Arnold Network

##### Speaker

Cendikia Abdi

15:50–16:05

#### GPE + GLE Calculations for Interaction Between Neutron Quantum Vortices and Proton Flux Tubes in the Outer Core of Neutron Stars

##### Speaker

Tatsuhiko Hattori

16:05–16:20

#### Generalized uncertainty principle effect in nuclear matter and slowly rotating neutron stars

##### Speaker

Muhammad Hafizt Al Ghifari

16:20

16:30

**Young researcher session: #3****Session** | **Location:** Universitas Gadjah Mada, Department of Physics | **Convener:** Daris Samart

16:30–16:45

**The Reggeizations of the Odderon Spin-3 and Pomeron Spin-2 Exchanges in pp and p $\bar{p}$  Elastic Scattering****Speaker**

Dominador Jr. Vaso

16:45–17:00

**Geometry of Non-Unitary Evolutions in Open Quantum Systems****Speaker**

Muhammad Ezra Acalapati Madani

17:00–17:15

**Heavy-Quark Spin Symmetry Violation effects in Charmed Baryon Production****Speaker**

Nantana Monkata

17:15–17:30

**Imprint of nuclear structure on identified particles in high energy heavy ion collisions****Speaker**

Hadi Mehrabpour

17:30

## Wednesday 20 August

14:30

### Young researcher session: #4

**Session** | **Location:** Universitas Gadjah Mada, Department of Physics | **Convener:** Sang-In Shim

14:30–14:45

#### Internal structure of exotic hadrons with coupled channel potential in relation with scattering observables

##### Speaker

Ibuki Terashima

14:45–15:00

#### Diquarks study from Lattice QCD

##### Speaker

Kai-Wen Kelvin-Lee

15:00

16:20

### Young researcher session: #5

**Session** | **Location:** Universitas Gadjah Mada, Department of Physics | **Convener:** Norhasliza Yusof

16:20–16:35

#### Two-pion emission decays of negative parity singly heavy baryons

##### Speaker

Nongnaphat Ponkhuha

16:35–16:50

#### Impact of triaxial degree of freedom in superheavy region

##### Speaker

Fazle Rabi Fazli

16:50–17:05

#### Quantum Numerical Integration Algorithm of a Polynomial Function for Nuclear Structure Application

##### Speaker

Teng Ting Li

17:05