

# Indo - Japan Workshop on Extreme Plasma Phenomena in Universe

## Program

Day 1 Tuesday March 11<sup>th</sup>

Session 1 (Chair: Jeewan Pandey)

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09:50 – 09:55 **Shuta J. Tanaka**, Aoyama Gakuin University

*“Opening”*

09:55 – 10:00 **Manish K. Naja** (Director of ARIES), ARIES

*“Opening”*

10:00 – 10:45a **Jagdish C. Joshi**, \*ARIES

*“Pulsar Wind Nebulae as Ultra-high Energy Gamma-ray Sources”*

10:45 – 11:30a **Shuta J. Tanaka**, Aoyama Gakuin University

*“Stochastic Acceleration Model of Pulsar Wind Nebulae as a Solution to the Pair Multiplicity Problem”*

11:30 – 12:15a **Wataru Ishizaki**, Tohoku University

*“Theoretical Modeling of Pulsar Wind Nebulae: Focusing on Radial Surface Brightness Profiles”*

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Lunch break 75 min.

Session 2 (Chair: Jagdish C. Joshi)

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13:30 – 14:15a **Kuntal Misra**, ARIES

*“VHE emission in GRBs”*

14:15 – 14:30c **Anshika Gupta**, ARIES

*“Multi-wavelength modeling of GRB 190829A”*

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Tea break 30min.

Session 3 (Chair: Kuntal Misra)

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15:00 – 15:45a **Tanima Mandal** (online), \*\*IIT-KGP

*“Joint Detection Prospects of Binary Neutron Star Merges using CTA and Gravitational-Wave Detectors”*

a. (40+5) min, b. (15+5) min, c. (12+3) min

\*ARIES = Aryabhatta Research Institute of Observational Sciences

\*\*IIT-KGP = Indian Institute of Technology, Kharagpur