Opening Remarks

Director, ICRR, Univ. of Tokyo Masayuki Nakahata

II SYNERGIES AT NEW FRONTIERS

Institute for Cosmic Ray Research (ICRR) Tokyo, Japan

25-26 March, 2024

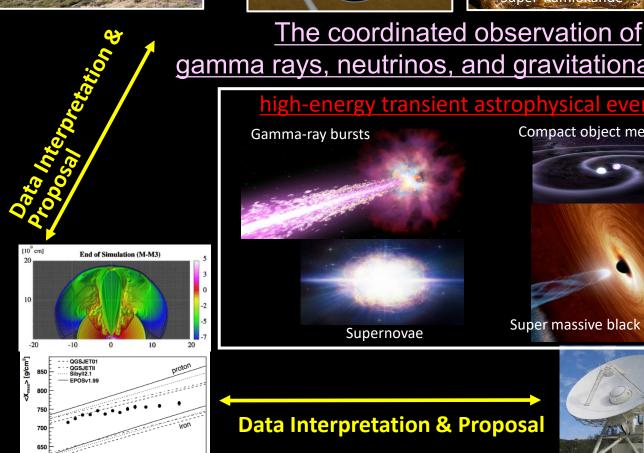
The exploration of new frontiers through the synergy of gamma-ray, neutrino, and gravitational wave research











gamma rays, neutrinos, and gravitational waves high-energy transient astrophysical events Compact object mergers Gamma-ray bursts Super massive black holes Supernovae



Data Interpretation & Proposal

Theory, Simulation, Cosmic-ray data

Radio, Opt/IR, X-ray observations

Founded in October 2017





Institute for Cosmic Ray Research

Earthquake Research Institute

Next-generation Neutrino Science Organization

Flagship facility "Hyper-Kamiokande"

Towards a center for the world's neutrino research wherein theory, experiment, and observation work closely

Institute for the Physics and Mathematics of the Universe

IPMU INSTITUTE FOR THE PHYSICS AND MATHEMATICS OF THE UNIVERSE

School of Science the University of Tokyo



Restructured in October 2023





Institute for Cosmic Ray Research

Coordinated Observation of Gamma Ray, Neutrino and Gravitational Wave

Earthquake Research Institute

Next-generation Neutrino Science and Multi-messenger **Astronomy Organization**

Flagship facility "Hyper-Kamiokande"

Oata Interpretation & Proposal Towards a center for the world's neutrino research wherein theory, experiment, and observation work closely

Implement Multi-messenger Astronomy leveraging our strengths

Theory, Simulation, Cosmic Ray Data

Data Interpretation & Proposal

Observation by Radio, Opt/IR, X Ray

Institute for the Physics and Mathematics of the Universe



School of Science the University of Tokyo



Next-generation Neutrino Science Organization NNSO



<u>Multi-Messenger Term Participation</u><u>Multi-Messenger Technology Partnership</u><u>Multi-Messenger Time-domain Physics</u>