

Session Program

Oct 20 - 23, 2026



The 18th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG18)

Poster Session

RIKEN, Headquarters Building 2F
2-1, Hirosawa, Wako, Saitama 351-0198, Japan

Wed, October 21

6:00 PM

Poster Session: Poster Session

Session | Location: RIKEN, Headquarters Building 2F, 2-1, Hirosawa, Wako, Saitama 351-0198, Japan

6:00 – 9:00 PM

Study of feasibility of the $^{84}\text{Kr}(n,\gamma)^{85}\text{Kr}$ reaction measurement via the Asymptotic Normalization Coefficient method for Astrophysical s-process

Speaker
Prof. Rosario Gianluca Pizzone

6:00 – 9:00 PM

Origin of the [Na/Mg] Scatter in Metal-poor Stars

Speaker
Shota Wajima

6:00 – 9:00 PM

Nuclear Masses and Isomers in X-ray Burst Nucleosynthesis

Speaker
Yudong Luo

6:00 – 9:00 PM

Effects of Multineutron States on Nuclear Composition in Supernova Matter

Speaker
Tatsuya Matsuki

6:00 – 9:00 PM

ASFIN collaboration studies of γ -induced reactions at the HIγS facility

Speaker
Giuseppe Gabriele Rapisarda

6:00 – 9:00 PM

Rotation-induced Relaxation of Supernova Constraints on Axionlike Particles

Speaker
Tsurugi Takata

6:00 – 9:00 PM

Can a Varying Higgs VEV Solve the Cosmic Lithium Problem?

Speakers
Hongrui Feng, Yudong Luo

6:00 – 9:00 PM

Revealing α -Element's Past with Subaru/IRD: Oxygen Abundance of 35 Very Metal-Poor Stars from Near-IR OH lines

Speaker
Bakuh Danang Setyo Budi

6:00 – 9:00 PM

Effects of the $2\text{SC}+\langle\text{dd}\rangle$ phase on the cooling of compact objects

Speaker
Tsuneo NODA

6:00 – 9:00 PM

Data-driven exploration of the neutron ${}^3\text{P}_{2-}$ pairing gap using Cassiopeia A neutron star observational data**Speaker**

Dr Kazuyuki Sekizawa

6:00 – 9:00 PM

Anomalous Bursting Regime in the Clocked Burster GS 1826–238**Speaker**

Tomoshi Takeda

6:00 – 9:00 PM

An Observational Discrepancy in the Fuel Budget of Superbursts**Speaker**

Amira Aoyama

6:00 – 9:00 PM

Exploring the Origin of Elemental Abundances in Cassiopeia A**Speaker**

Ryota Hatami

6:00 – 9:00 PM

A Stellar Thermometer ${}^{176}\text{Lu}/{}^{176}\text{Hf}$ of the Main s -Process in AGB Stars**Speakers**

Xinxu Wang, Yudong Luo

6:00 – 9:00 PM

An Actinide-boost r-I Star as a Fossil Record of Early r-process Enrichment: Gemini/GHOST Abundance Analysis of LAMOST J122216.86–063345.26**Speaker**

Miji Jeong

6:00 – 9:00 PM

Ti isotopic analysis of presolar SiC using laser post-ionization SNMS**Speaker**

Kei Sato

6:00 – 9:00 PM

Photoneutron cross sections for ${}^{45}\text{Sc}$: Insights into the origin of ${}^{45}\text{Sc}$ **Speaker**

Xuan Pang

6:00 – 9:00 PM

Waiting for T CrB: A Once-in-a-Lifetime Opportunity to Catch Nova Neutrinos**Speaker**

Prantik Sarmah

6:00 – 9:00 PM

Best Reaction Target To Determine Proton Distribution Radii of Atomic Nuclei**Speaker**

Jun-yao Xu

6:00 – 9:00 PM

Mass measurements of neutron-rich lanthanide isotopes via MRTOF mass spectrograph

Speaker

Yuki Yamanouchi

6:00 – 9:00 PM

When AI is wrong: Apply non-artificial intelligence. How to determine model errors and fission-barriers**Speaker**

Peter Moller

6:00 – 9:00 PM

Identifying Mono-Enriched Candidates among Extremely Metal-Poor Stars through Chemical Signatures**Speaker**

Ryo Ishikawa

6:00 – 9:00 PM

Non-LTE Spectral Constraints on Nucleosynthesis Conditions in Neutron Star Mergers**Speaker**

Koya Chiba

6:00 – 9:00 PM

Impacts of recent nuclear reactions on the rp-process in X-ray bursts**Speaker**

Dr Nobuya Nishimura

6:00 – 9:00 PM

Secondary i- and s-Processes Following the r-Process in Collapsar Jets**Speaker**

Zhenyu He

6:00 – 9:00 PM

Effects of Λ NN and Λ Λ N Three-Body Interactions on Hyperonic Neutron Star Equations of State**Speaker**

Taeho Lee

6:00 – 9:00 PM

 $^{24}\text{Mg}(p,\gamma)^{25}\text{Al}$ at LUNA**Speaker**

David Rapagnani

6:00 – 9:00 PM

Fast Neutrino Flavor Conversion and Its Possible Impact on Core-Collapse Supernova Nucleosynthesis**Speaker**

Liu Jiabao

6:00 – 9:00 PM

Understanding the actinide production through the Th/Eu abundance ratio**Speaker**

Ainun-Nahdhia Azhari

6:00 – 9:00 PM

Validity test of ^{20}Ne as a Trojan Horse nucleus toward the measurement of the $^{16}\text{O}+^{16}\text{O}$ fusion cross section**Speaker**

marco la cognata

6:00 – 9:00 PM

Relativistic Quantum Description of Synchrotron Radiation from Ultra-High-Energy Protons in Strong Magnetic Fields**Speaker**

Tomoyuki Maruyama

6:00 – 9:00 PM

 $^7\text{Be} + n$ Destruction Channels and the Cosmological Lithium Problem**Speaker**

Sayan Samanta

6:00 – 9:00 PM

Exclusive Indirect Measurement at the ISAC-II Facility of the $^{22}\text{Ne}(\alpha,\gamma)^{26}\text{Mg}$ Reaction for s-process Nucleosynthesis**Speaker**

Thomas Chillery

6:00 – 9:00 PM

Comparison of low-energy $^{12}\text{C} + ^{12}\text{C}$ and $^{12}\text{C} + ^{13}\text{C}$ fusion reaction through compound-nucleus spectra**Speaker**

Kosei Nagao

6:00 – 9:00 PM

Galactic chemical Evolution with short lived radioactive isotopes**Speaker**

Benjamin Wehmeyer

6:00 – 9:00 PM

The challenging direct determination of the cross section of the $^{12}\text{C}+^{12}\text{C}$ reaction at LUNA**Speaker**

Riccardo Maria Gesuè

6:00 – 9:00 PM

The Impact of Residual Heating on Type-I Bursts**Speaker**

Dr Akira Dohi

6:00 – 9:00 PM

Estimation of the slope parameter L using magnetar asteroseismology**Speaker**

Prof. Hajime SOTANI

6:00 – 9:00 PM

Galactic chemical Evolution of r-process elements**Speaker**

Benjamin Wehmeyer

6:00 – 9:00 PM

Chiral Microscopic Optical Potentials for vp Process Nucleosynthesis in the Ge Ga Region**Speaker**

Tong Zhang

6:00 – 9:00 PM

Formation, evolution, and nucleosynthesis of the dwarf satellites of the Milky Way**Speaker**

Grant Mathews

6:00 – 9:00 PM

Study of Low-Lying Negative-Parity T=5 States in ^{48}Ca with ANASEN and a Reaccelerated 47K Beam**Speaker**

Gyoungmo Gu

6:00 – 9:00 PM

Impact of Proximity Potential Models on the $^{12}\text{C} + ^{12}\text{C}$ Fusion Reaction**Speaker**

AZNI ABDUL AZIZ

6:00 – 9:00 PM

Dynamics of core-collapse supernovae with quark-matter cores**Speaker**

Grant Mathews

6:00 – 9:00 PM

Effective Binary Star Yields for stable and Radioactive Nuclides in Galactic Chemical Evolution**Speaker**

Tejpreet Kaur

6:00 – 9:00 PM

Stellar $^{191}\text{Ir}(n, g)$ cross section: calculations and astrophysical s-process nucleosynthesis implications**Speaker**

Prof. Kawchar Patwary

6:00 – 9:00 PM

A Hybrid Treatment of Baryon Degeneracy in Neutrino Transport for Core-Collapse Supernovae**Speaker**

Myung-Ki CHEOUN

6:00 – 9:00 PM

Effects of extra neutrino emissivities in kaon condensation on thermal evolution of neutron stars**Speaker**

Prof. Takumi Muto

6:00 – 9:00 PM

Gemini/GMOS Spectroscopy of Bright CEMP Candidates from LAMOST

Speaker

Chang Mok Do

6:00 – 9:00 PM

Weak rates of nuclear Urca pairs in π - and ρ -shell nuclei relevant to Urca processes in the neutron star ocean**Speaker**

Prof. Toshio Suzuki

6:00 – 9:00 PM

Constraints on New Physics Based on Supernova Explodability**Speaker**

Kanji Mori

6:00 – 9:00 PM

A Na-rich Actinide-boost r-II Candidate: The Chemo-kinematic Origin of LAMOST J015857.38+382834.7**Speaker**

Dayoung Byun

6:00 – 9:00 PM

Nucleosynthesis in Neutron Star Merger Accretion Disks: Hydrodynamical Heating and Observational Constraints**Speaker**

Mr Pranav Nalamwar

6:00 – 9:00 PM

A Near-Infrared Spectroscopic Search for Multiple-Population Signatures in NGC 1978**Speaker**

Mr Jaehyun Kim

6:00 – 9:00 PM

Josephson-Induced HQV-SQV Binding at the s - p Interface and Its Implications for the Vortex Network Model of Pulsar Glitches**Speaker**

Tatsuhiko Hattori

6:00 – 9:00 PM

Characterizing the Chemical Enrichment Histories of the Milky Way's Accreted Substructures Using Metal-Poor Stars**Speaker**

Young Sun Lee

6:00 – 9:00 PM

Nucleosynthesis in Supernova Remnant Cassiopeia A: Probing Origins of Light Odd-Z Elements and Progenitor Stellar Processes**Speaker**

Kai Matsunaga

6:00 – 9:00 PM

Nuclear γ -ray and Internal-conversion X-ray Emission from Neutron-rich Ejecta Associated with Magnetar Giant Flares

Speaker

Dr Shin-ichiro Fujimoto

6:00 – 9:00 PM

Impact of experimental mass of ^{70}Kr on the ^{68}Se waiting-point in the r -process**Speaker**

MIN ZHANG

6:00 – 9:00 PM

Recoil-enabled neutrino heating in core-collapse supernovae**Speaker**

Tatsushi Shima

6:00 – 9:00 PM

Theoretical study of momentum coverage and energy normalization in the ^{13}C neutron-spectator THM approach to $^{12}\text{C} + ^{12}\text{C}$ fusion**Speaker**

Dr Zifeng Luo

6:00 – 9:00 PM

Probing proton upscattering of the ^{12}C Hoyle State with the AToM-X active-target TPC**Speaker**

Dr Jung Woo Lee

6:00 – 9:00 PM

Neutron Capture Rate Uncertainties and Their Impact on r -Process Nucleosynthesis**Speaker**

Mr Yu An

6:00 – 9:00 PM

Toward a Comprehensive Understanding of Big Bang Nucleosynthesis**Speaker**

Azusa Inoue

6:00 – 9:00 PM

Direct measurement of astrophysically important (a,p) reactions using AToM-X active target TPC**Speaker**

Dr Soomi Cha

9:00 PM