

RIKEN Symposium

Evolution of Matter in the Universe

Suzuki Umetaro Hall, Wako campus, RIKEN

Start	End	Name	Affiliation	Title/Topic
2024/06/05				
9:00	9:10	Nami Sakai		Welcome
9:10	9:45	Shigehiro Nagataki	RIKEN CPR	Research Summary of the Nuclear Group of r-EMU
9:45	10:10	Akira Furusaki	RIKEN CPR	Topological phases of matter
10:10	10:35	Tadaaki Isobe	RIKEN RNC	Experimental study of asymmetric nuclear matter EOS from heavy-ion reactions with RIBF-SPIRIT
10:35	10:55			Coffee Break
10:55	11:20	Nobuya Nishimura	U Tokyo	Challenges in nuclear-reaction studies for explosive nucleosynthesis in core-collapse supernovae
11:20	11:45	Hajime Sotani	RIKEN CPR	Neutron stars and gravitational wave asteroseismology
11:45	13:15			Lunch
13:15	13:40	Emiko Hiyama	RIKEN RNC	Structure of multi-neutron systems
13:40	14:15	Atsushi Tamii	Osaka University	Photo-Nuclear Reaction of Light Nuclei for the Study of Intergalactic Propagation of Ultra-High-Energy Cosmic Rays
14:15	14:40	Eiji Kido	RIKEN CPR	Highest energy cosmic rays and the nuclear reaction experiment, PANDORA project
14:40	15:10			Coffee Break
15:10	15:35	Hiroki Yoneda	Universität Würzburg	Space gamma-ray observations and nuclear experiment
15:35	16:10	Shunji Nishimura	RIKEN RNC	Experiments related to r-process nucleosynthesis
16:10	16:35	Takuma Okumura	Tokyo Metropolitan Univ.	Neutral-particle detection with Transition-Edge Sensor microcalorimeters
16:35	17:00	Yuta Sekino	RIKEN CPR	Superfluidity: from cold atoms to neutron stars
17:00	17:10			Discussion
2024/06/06				
9:00	9:25	Toru Tamagawa	RIKEN RNC	Research Summary of the Atom Group of r-EMU
9:25	10:00	Haozhao Liang	The University of Tokyo	Nuclear mass predictions with machine learning reaching the accuracy required by r-process studies
10:00	10:25	Gilles Ferrand	University of Manitoba	Typing thermonuclear explosions from X-ray spectro-imagery of supernova remnants
10:25	10:45			Coffee Break
10:45	11:20	Yuri Aikawa	The University of Tokyo	chemistry during molecular cloud formation
11:20	11:45	Shota Notsu	The University of Tokyo	Estimation of cosmic-ray ionization rates in protostellar objects by molecular line observations
11:45	13:10			Lunch
13:10	13:35	Hiroataka Ito	RIKEN CPR	First principle calculation of radiation mediated shocks
13:35	14:00	Ross Burns	RIKEN CPR	Episodic accretion and it's influence on physical parameters in high-mass Star forming regions
14:00	14:35	Nami Sakai	RIKEN CPR	Summary of the Molecule Team Results
14:35	14:55			Coffee Break
14:55	15:20	Yuki Okoda	RIKEN CPR	Molecular and Ionic lines in a Protostellar Outflow through JWST and ALMA
15:20	15:45	Satoshi Ohashi	NAOJ · RIKEN CPR	Coagulation process of dust particles studied by observations and experiments
15:45	16:10	Akemi Tamanai	RIKEN CPR	Morphological effects of dust grains on infrared spectra verified by using synchrotron radiation at SPring-8
16:10	16:35	Yousoo Kim	RIKEN CPR	Single-molecule approach toward surface astrochemistry
16:35	17:10	Naoki Watanabe	Hokkaido University	Behavior of Carbon and Sulfur Atoms on Ice at Low Temperatures
17:10	17:20			Discussion/move to banquet place
17:30	20:00			bunquet@cafeteria RIKEN (2500yen/person. Please pay at the conference reception)
2024/06/07				
9:00	9:35	Makoto Sawada	Rikkyo Unviersity	XRISM mission status and early results on SNRs
9:35	10:00	Shinya Yamada	Rikkyo Unviersity	TES application to fluorescence XAFS (TBR)
10:00	10:25	Yuuki Amano	JAXA	Comic plasma studied with EBIT (TBR)
10:25	10:45			Coffee Break
10:45	11:10	Toru Tamagawa	RIKEN RNC	NinjaSat: A CubeSat observatory for observing nuclear fusion on neutron stars
11:10	11:35	Akira Dohi	RIKEN CPR	Modeling Type-I X-ray Bursters with HERES
11:35	13:00			Lunch
13:00	13:35	Liyi Gu	SRON	Atomic data need for XRISM
13:35	14:00	Takahiro Oyama	RIKEN CPR	Development of THz Spectrometer and Spectroscopy of Methanol Isotopologues
14:00	14:25	Yoshimasa Watanabe	Shibaura Institute of Technology	18O/17O Ratio in Methanol Isotopologues
14:25	14:50	Toshio Namba	The University of Tokyo(ICEPP)	Paraphoton dark matter search with SUMIRE spectrometer
14:50	15:10			Coffee Break
15:10	15:35	Nadia Murillo	UNAM/MEXICO	Physical conditions using molecular emission in star forming clouds: from molecular cloud to protostars
15:35	16:10	Takashi Shimonishi	Niigata Unviersity	Molecular Evolution in Different Metallicity Environments
16:10	16:35	Masaomi Ono	ASIAA, Taiwan	Molecular Formation in Supernova Ejecta
16:35	17:00	Ziwei Zhang	RIKEN CPR	Gaseous Dust in Massive Protostars
17:00	17:20	Nami Sakai		Discussion and Summary