

The background of the slide features a dark, star-filled space. In the center, there are two bright, glowing purple and blue energy-like structures, possibly representing cosmic rays or particle interactions, with a smaller, similar structure between them. The overall aesthetic is futuristic and scientific.

II SYNERGIES AT NEW FRONTIERS

Institute for Cosmic Ray Research (ICRR)
Tokyo, Japan

25-26 March, 2024

Background image credit: NASA's Goddard Space Flight Center/CI Lab



Motivation

- Only with **multi-messenger astronomy** we will be able to fully unveil the mechanisms at operation in different galactic and extragalactic sources.
- This is the second edition of the workshop series "Synergies at new frontiers at gamma-rays, neutrinos and gravitational waves", which started in 2022 with the **aim of strengthening synergies between different multi-messenger windows of the highly-energetic Universe.**
- This time the workshop will focus on the available **alert systems** which have been developed by the astrophysics community and on the results of **multi-messenger sources.**



March 25

March 26

Physics from MM sources

Chairs:
Olaf Reimer
Michiko Ohishi

MM programs

Chair:
Hidetoshi Kubo

Alert systems

Chairs:
Kimihiro Okumura
Masahiro Teshima

09:00	Registration	
	The University of Tokyo, Kashiwa Campus	09:15 - 09:30
	Opening	Masayuki Nakahata
	The University of Tokyo, Kashiwa Campus	09:30 - 09:35
	General information	
	The University of Tokyo, Kashiwa Campus	09:35 - 09:45
	Optical	Ataru Tanikawa
	The University of Tokyo, Kashiwa Campus	09:45 - 10:15
	Gamma rays: HE-VHE-UHE	Dmitry Khangulyan
	The University of Tokyo, Kashiwa Campus	10:15 - 10:45
	Coffee break	
	The University of Tokyo, Kashiwa Campus	10:45 - 11:15
	Radio	Kazumi Kashiyama
	The University of Tokyo, Kashiwa Campus	11:15 - 11:45
	Current status and expectations for XRISM	Yusaka Fujita
	The University of Tokyo, Kashiwa Campus	11:45 - 12:15
	Group photo: Group photo	
	The University of Tokyo, Kashiwa Campus	12:15 - 12:20
	Lunch	
	The University of Tokyo, Kashiwa Campus	12:20 - 13:30
	Multi-messenger projects at ICRR	Katsuki Asano
	The University of Tokyo, Kashiwa Campus	13:30 - 13:55
	Kavli IPMU's multi-messenger involvement	Mark Vagnis
	The University of Tokyo, Kashiwa Campus	13:55 - 14:20
	Gamma-ray bursts in a multi-messenger context	Susumu Inoue
	The University of Tokyo, Kashiwa Campus	14:20 - 14:40
	Alert systems overview	Koji Noda
	The University of Tokyo, Kashiwa Campus	14:40 - 15:00
	Optical alerts brokers	Aozomu Tomnaga
	The University of Tokyo, Kashiwa Campus	15:00 - 15:20
	Coffee break	
	The University of Tokyo, Kashiwa Campus	15:20 - 15:50
	Transients detection and alert handling from LHAASO	Min Zhu
	The University of Tokyo, Kashiwa Campus	15:50 - 16:10
	Astro-COLIBRI	Fabian Schüssler
	The University of Tokyo, Kashiwa Campus	16:10 - 16:30
	Radio follow-up of GRBs and neutrino events	Yuji Uraza
	The University of Tokyo, Kashiwa Campus	16:30 - 16:50

17:00		
	Dinner	
	The University of Tokyo, Kashiwa Campus	17:30 - 19:30
18:00		
19:00		

	Gravitational waves	Soichiro Morisaki
	The University of Tokyo, Kashiwa Campus	09:30 - 10:00
	Neutrinos	Yusuke Koshio
	The University of Tokyo, Kashiwa Campus	10:00 - 10:30
	Diffuse Axion Background and Axion Spectroscopy from Transient Sources	Volodymyr Takhistov
	The University of Tokyo, Kashiwa Campus	10:30 - 10:50
	Coffee break	
	The University of Tokyo, Kashiwa Campus	10:50 - 11:20
	GCN	Takanori Sakamoto
	The University of Tokyo, Kashiwa Campus	11:20 - 11:40
	CALET alert system	Masaki Mori
	The University of Tokyo, Kashiwa Campus	11:40 - 12:00
	VLBI response of a MM trigger	Jeffrey Adam Hodgson
	The University of Tokyo, Kashiwa Campus	12:00 - 12:20
	GW signal processing and alerts	Kipp Cannon
	The University of Tokyo, Kashiwa Campus	12:20 - 12:40
	HEIMDALL-WIT	Luis Martí-Magro
	The University of Tokyo, Kashiwa Campus	12:40 - 13:00
	Closing remarks	
	The University of Tokyo, Kashiwa Campus	13:00 - 13:20

Physics from MM sources

Chair:
Mitsunari Takahashi

Alert systems

Chair:
Marcel Strzys

Schedule



Group picture

Today at 12:15 h

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Dinner



Banquet **today at 17.30h** in the canteine

4000 ¥ to be paid in cash during the coffee breaks or lunch time

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Wifi



- eduroam
- **ConfKashiwa2G or ConfKashiwa5G**

Password: ConfKashiwa



General information

- **Speakers:** It is not necessary to send your slides in advance. After the workshop, we will let you know where to upload your presentation. Anyway, feel free to upload it to indico directly.
- **Speakers:** Please use Zoom to present the slides at the venue.
- The library will be closed at 5pm: you can exit afterwards but you can not re-enter.

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Lunch





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Thank you for your participation!