

Welcome to Nagoya

Thank you for coming to our first workshop, the Nagoya Workshop on Technology and Instrumentation in Future Liquid Noble Gas Detectors

This workshop is held to

- Share the techniques and knowledge across experiments and fields, especially for the future liquid noble gas detectors.
- Get involved in discussions, ask questions, share your ideas
- Initiate new collaborations



Welcome to Nagoya

This workshop focuses on the following topics:

Physics program of future direct dark matter searches

New detector design and Novel TPCs: single-phase TPC, solid-Xe TPC, hermetic TPC, electrodes, and etc

New photosensors and charge readout: PMT, SiPM and etc

Novel purification for radioactive and non-radioactive impurities

Accidental coincidence and single-electron backgrounds





Kobayashi-Maskawa Institute for the Origin of Particles and the Universe

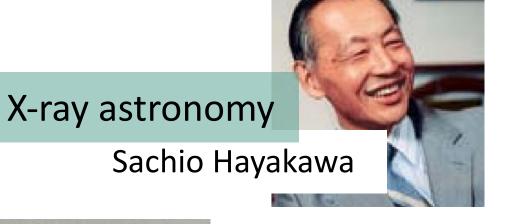


History



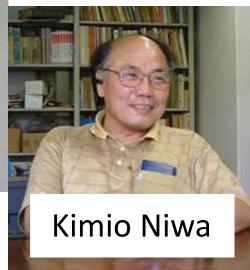


Sakata model MNS matrix

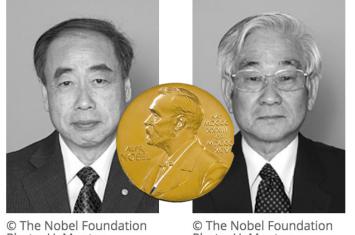




Nuclear emulsions



Kobayashi-Maskawa Matrix



Makoto Kobayashi



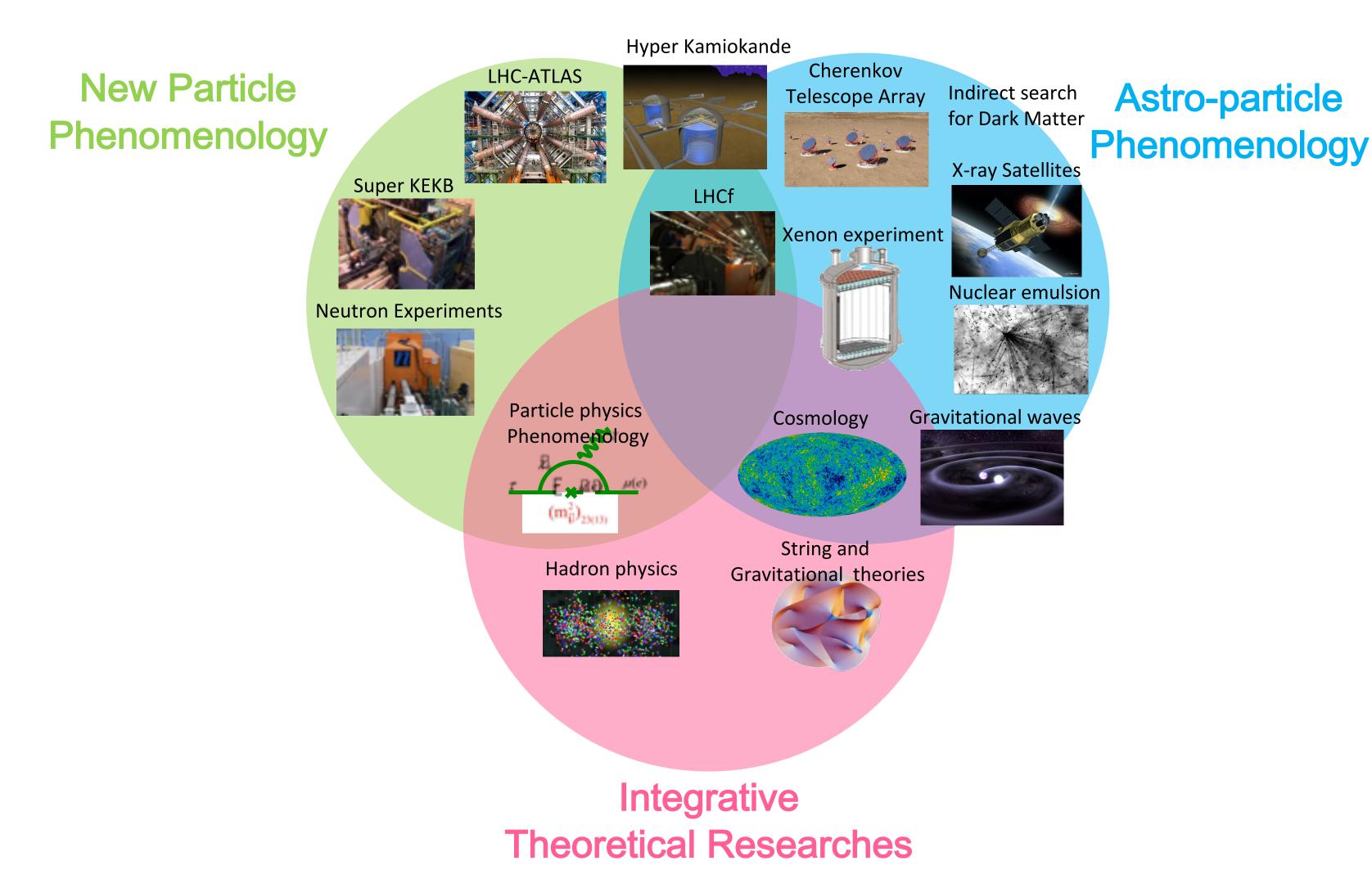


Our Mission



Beyond Kobayashi-Maskawa.





- Nagoya group's activity for direct dark matter experiment is selected as an Advanced International Research Unit
- Prof. Marc Schumann is co-Pl of this research unit.



Some Information from LOC

Some remarks about the logistical arrangements:

- Network: Please use eduroam or following network (only 30 people can access). If you cannot access both of them, please let us know.

SSID: SPWH_L13_44E03E

Password: 2sX65jM4

- **ZOOM connection:** Please connect to zoom when you present

https://us06web.zoom.us/j/81725397164?pwd=5imb5PU5WW4adRmjClE5QjHdHtbD6K.1

Meeting ID: 817 2539 7164

Passcode: 936358

Coffee break: just in front of this room

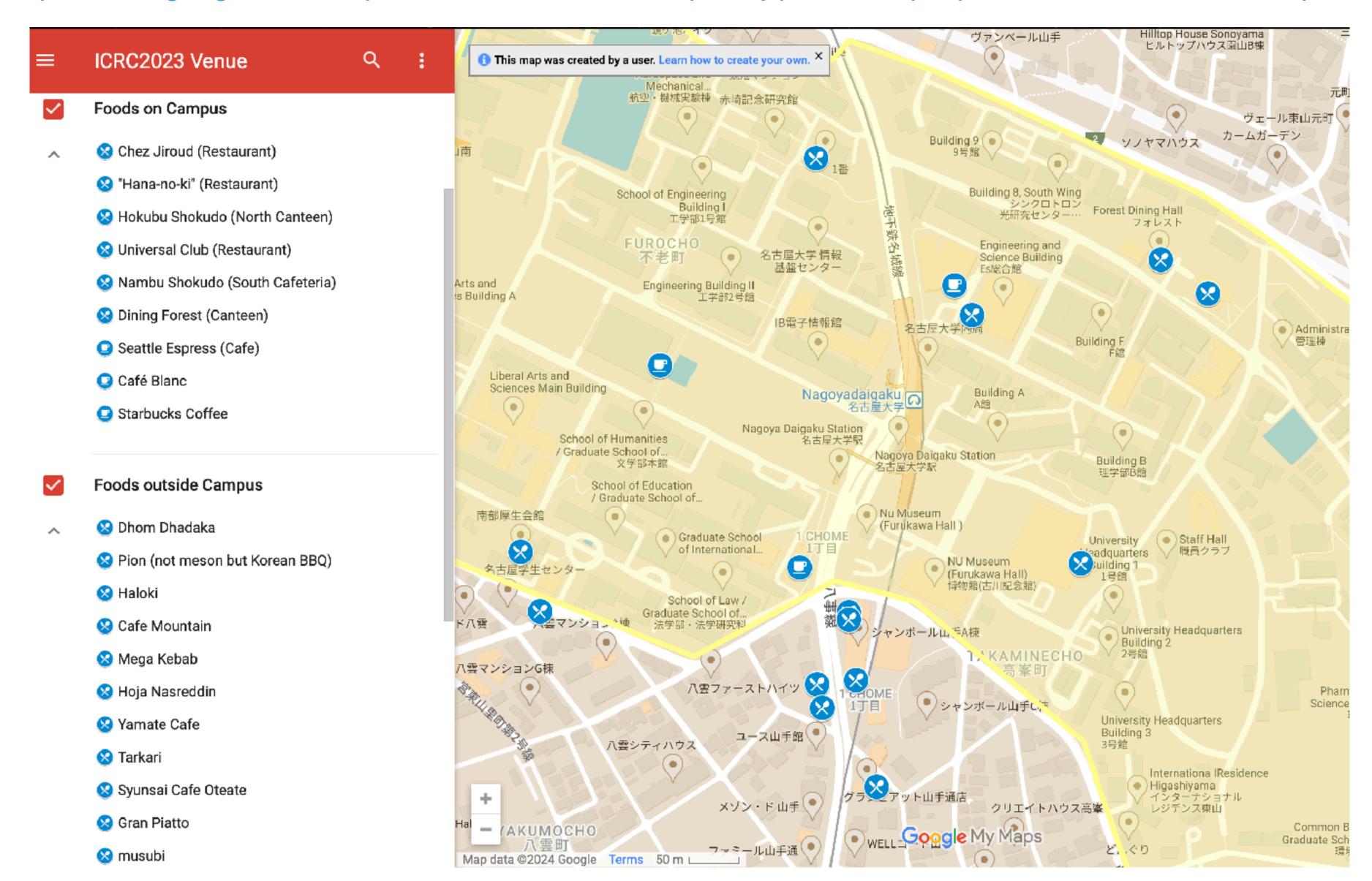
- Group photo: We will take a group photo before lunch time today
- Poster session: The poster session will be held in front of this room (ES635) this evening. Light meals and drinks will be served.
- **Slide**: Please upload the slides to the following Google Drive before presentation.

https://drive.google.com/drive/folders/1dBfuGVWd7Es1QdMA3x136N5PBmBbvEiP

- Presentation: Each speaker is allocated 30 minutes, comprising a 25-minute presentation followed by a 5-minute Q&A session.

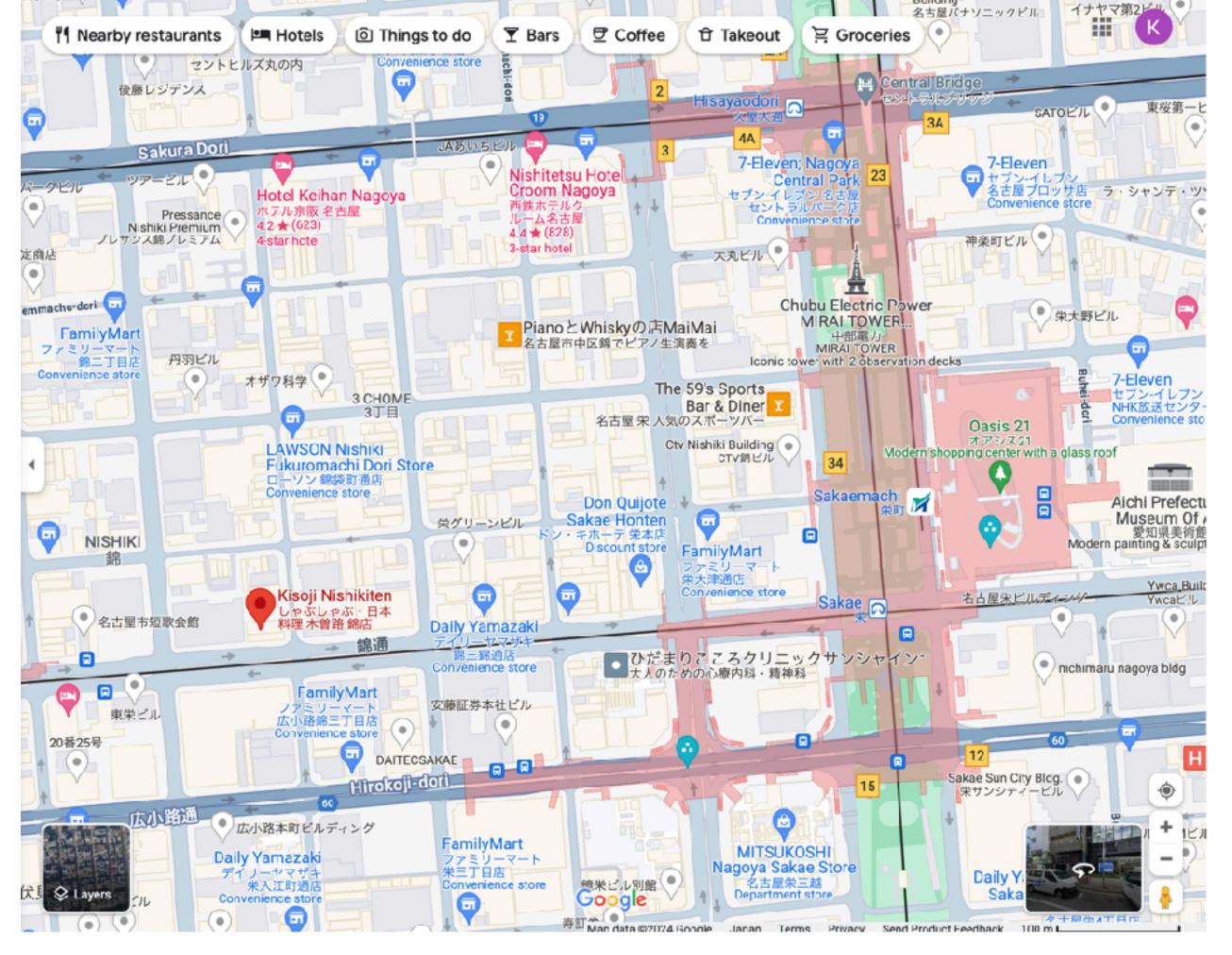
Lunch/Shops

https://www.google.com/maps/d/viewer?mid=1YC7OpTIv3jq5AUazw0poxpOWCXQJaVU&hl=en&usp=sharing



Dinner

- Fee: Please pay 9000 Yen in cash
- Location: Kisoji restaurant near Sakae station at 7:30 PM











Enjoy the workshop!