

Opening Remarks

Welcome to the GW & Early Universe Workshop in Nagoya

Takahiro Terada (on behalf of the organizers), Mar. 12, 2026, KMI, Nagoya University

Gravitational Waves and the Early Universe:

Accelerated Expansion, Dynamical Inhomogeneity, and Beyond

- The 34th (FY 2024) Academic research grant (Natural Science) No. 9284 from DAIKO FOUNDATION, "Probing the Accelerating Universe with Gravitational Waves" (TT)
- Grant-in-Aid for Scientific Research (C), JSPS KAKENHI Grant No. 24K07013, "Search for the dynamical formation of inhomogeneity in the early Universe with gravitational waves" (RJ)
- KMI/FlaP International Conference Support Program 2025

Gravitational Waves and the Early Universe:

Accelerated Expansion, Dynamical Inhomogeneity, and Beyond

Invited talks

- Overview
- GWs from Reheating
- GWs from Curvature Perturbations
- GWs from First-Order Phase Transitions
- GWs from Cosmic Strings
- GWs from Domain Walls
- GWs related to Primordial Black Holes
- GWs with Numerical Relativity

Contributed talks

- GWs and Pulsar Timing Arrays
- GWs in SMEFT and BSM
- GWs from inflation
- GWs and Baryogenesis
- GWs from Dark Energy
- GWs and Primordial Magnetic Fields
- GWs from an early MD era
- GWs and Grand Unification
- GWs from Cosmic Textures
- GWs from Thermal Bath
- Chiral GWs
- Tensor Bispectrum and Soft Theorems
- Ultralight DM and GW detectors
etc.

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Let's discuss the broader picture and connections beyond individual topics.

Contributed talks

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Presentation Format

- Invited talks: 40 min talk + 10 min questions & discussions
- Contributed talks: 15 min talk + 5 min questions & transition
- Please **send your slides** to the organizers by the **day before your talk**. We will upload the file to the Indico page.
- Share your screen on Zoom.
Zoom information has been sent to the registered participants.
- Questions during the talks are very welcome, but please be mindful not to interrupt the overall flow of the presentation.

Photo session & Workshop Dinner

- **Group Photo:** 12:00— (after the morning session), Mar. 13 (Fri), ES635 (this room)
- **Workshop Dinner:** 18:30—20:30, Mar. 13 (Fri), Outside ES635

A light buffet-style dinner will be provided in a relaxed and informal setting.

Please note that the workshop dinner is limited to participants who have paid for the dinner.

Practical Information

- **eduroam** is available for the Internet access.
- For cafeteria/canteen, see the next page.

Cafeteria "Polaris Dining"

Dining "Forest"

Restaurant "Hananoki"

"Seattle Express Cafe"

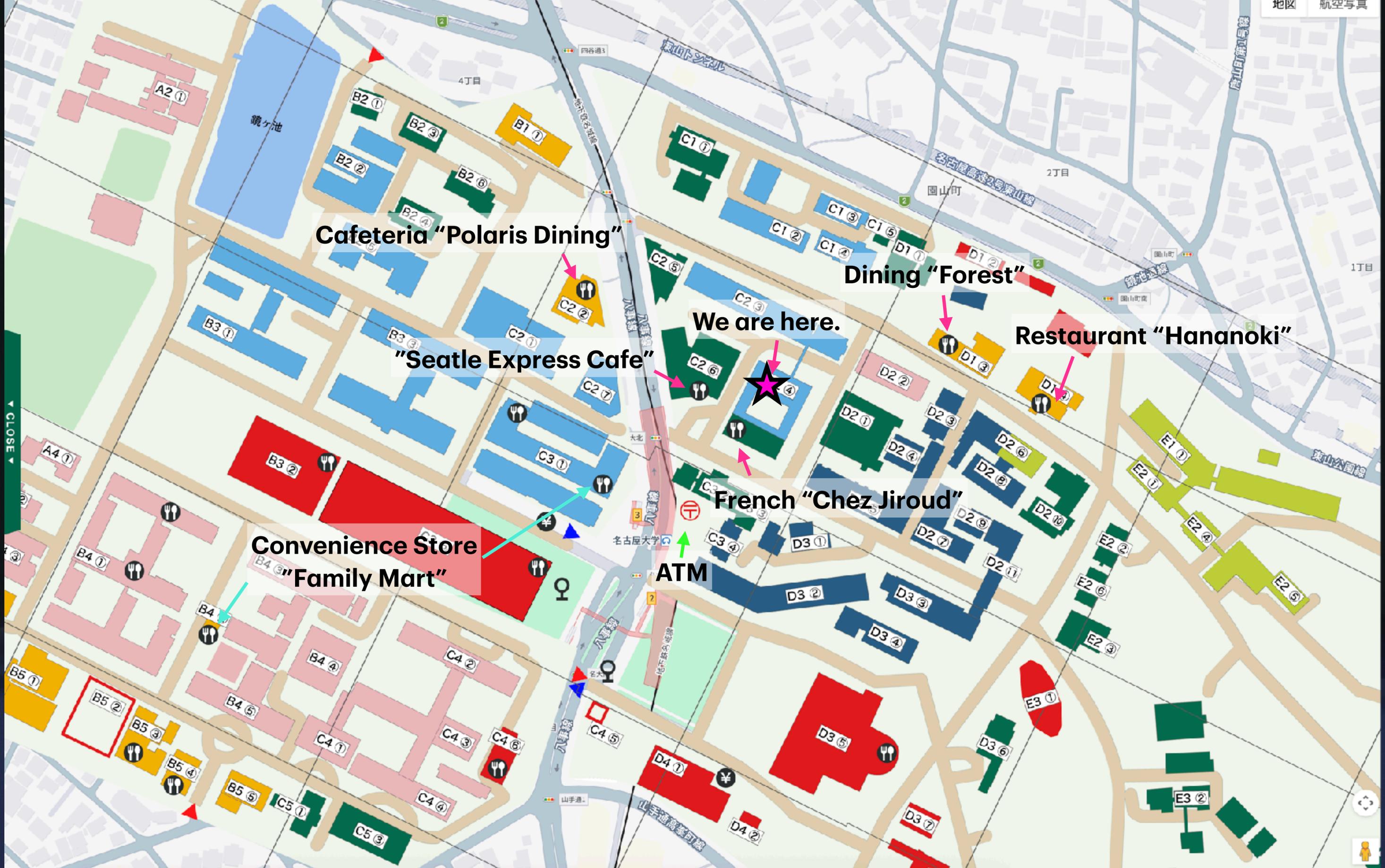
We are here.

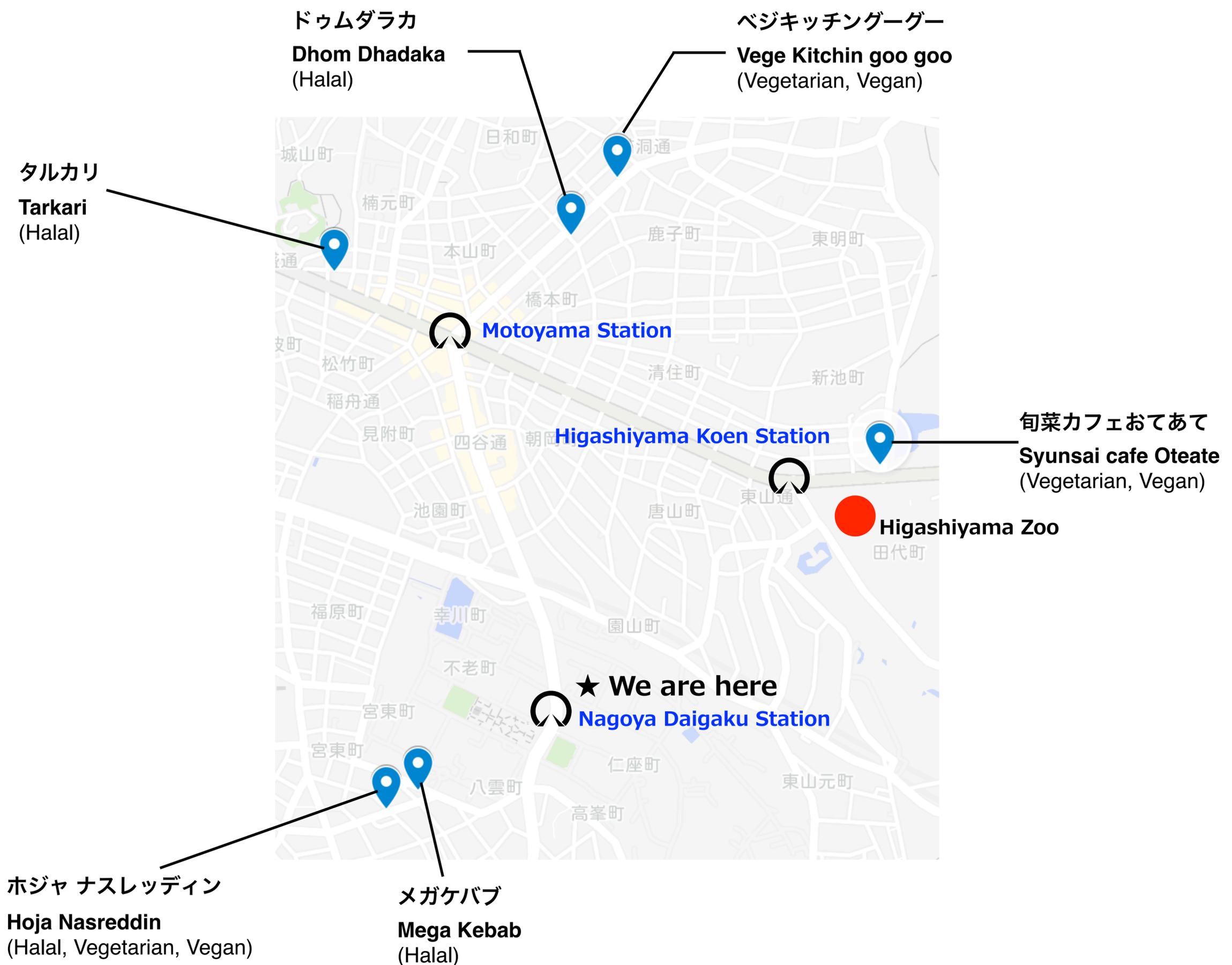
French "Chez Jiroud"

Convenience Store
"Family Mart"

ATM

CLOSE





Notes



**NO FOOD OR DRINKS
ALLOWED IN THIS ROOM!**

No food or drinks are allowed in this room (ES635)



Please be careful not to bring food or drink into this room.

Let's enjoy the workshop!