Welcome

H. Nanjo for organizers (Osaka U.)

Welcome

- Motivation of the workshop
 - To discuss the future of kaon physics.
 - Kaon physics is at a turning point. While the kaon rare decay experiments NA62 and KOTO are in full swing, the future experimental landscape is unclear.
 - CERN's decision not to have HIKE
 - Extension of hadron experimental facility and KOTO II at J-PARC are not funded yet
 - It's a good time to discuss the future of kaon physics with theorists and experimentalists.
 - Based on the status of the current NA62, LHCb, and KOTO experiments,
 - We would like to have international discussions, especially focusing on the realization of the future planned KOTO II experiment at J-PARC and the development of a broader physics program and detectors.
 - Prepare for inputs to European Strategy process

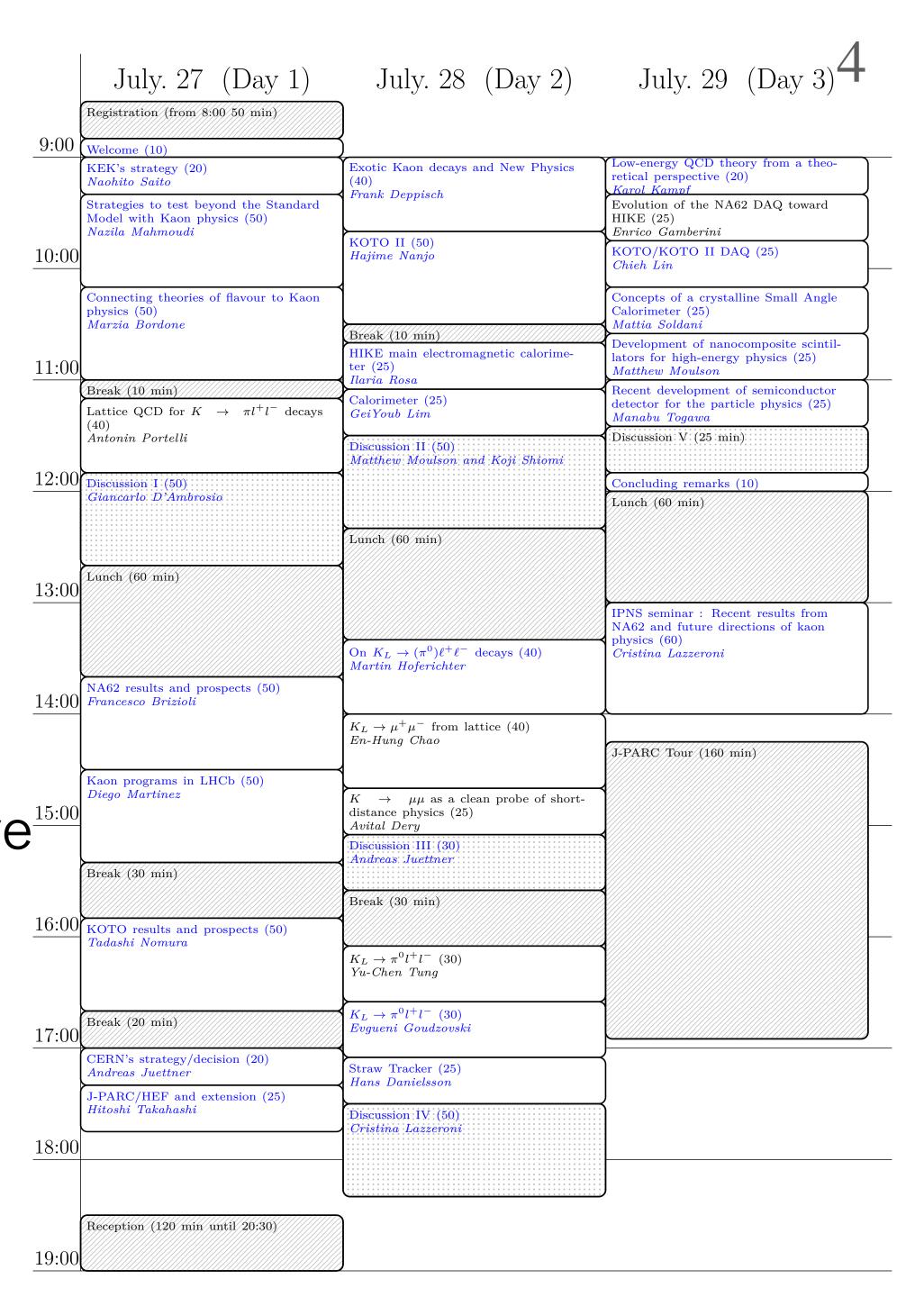
European Strategy

- March 21, 2024: Start of the update of process on the European Strategy
- March 31, 2025: Deadline to submit written input from community
 - May 26, 2025: deadline of further opportunities of inputs
- June 23-27, 2025 : Scientific Open Symposium
- By the end of September 2025: Physics Briefing Book by a group.
 - November 14, 2025 : deadline of further opportunities of inputs
- December 1-5, 2025 : Drafting session
- In a first step, the particle physics community is invited to submit written input by 31 March 2025

Program

- 1st day
 - Theory
 - Current
 - Strategy
- 2nd day
 - Future $K_L \to \pi^0 \nu \bar{\nu}$
 - Future $K_L \to (\pi^0) ll$
- 3rd day
 - Technology

- Q&A at the last of presentation
 - Use microphones
- Discussion sessions
 - Relax with coffee
 - Try to avoid "Negative words" to be constructive

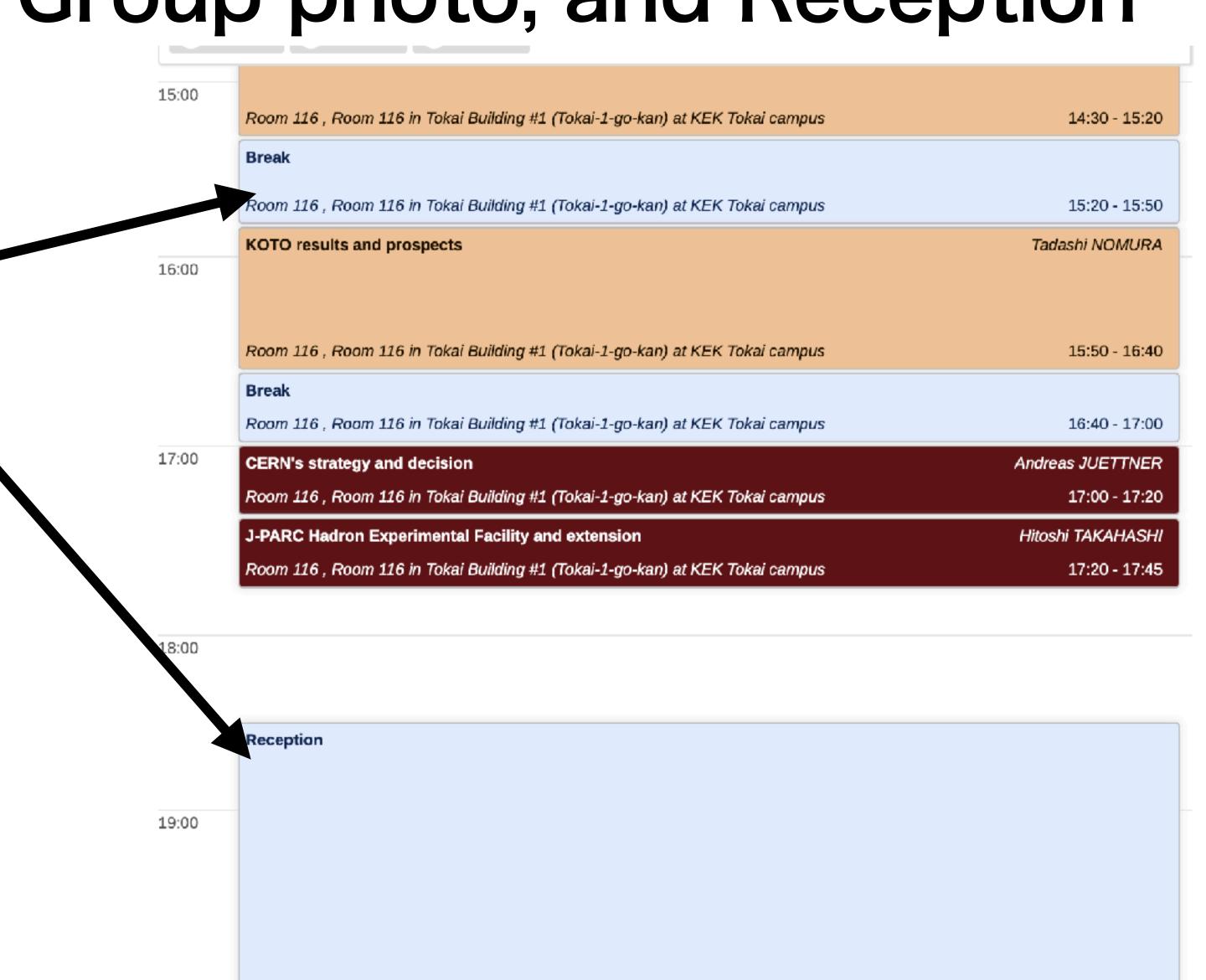


18:30 - 20:30

Onsite registration, Group photo, and Reception

20:00

- Onsite registration (break)
- Group photo: July 27 15:20-
- Reception : July 27 18:30-
 - Room 115
 - Foods and Drinks

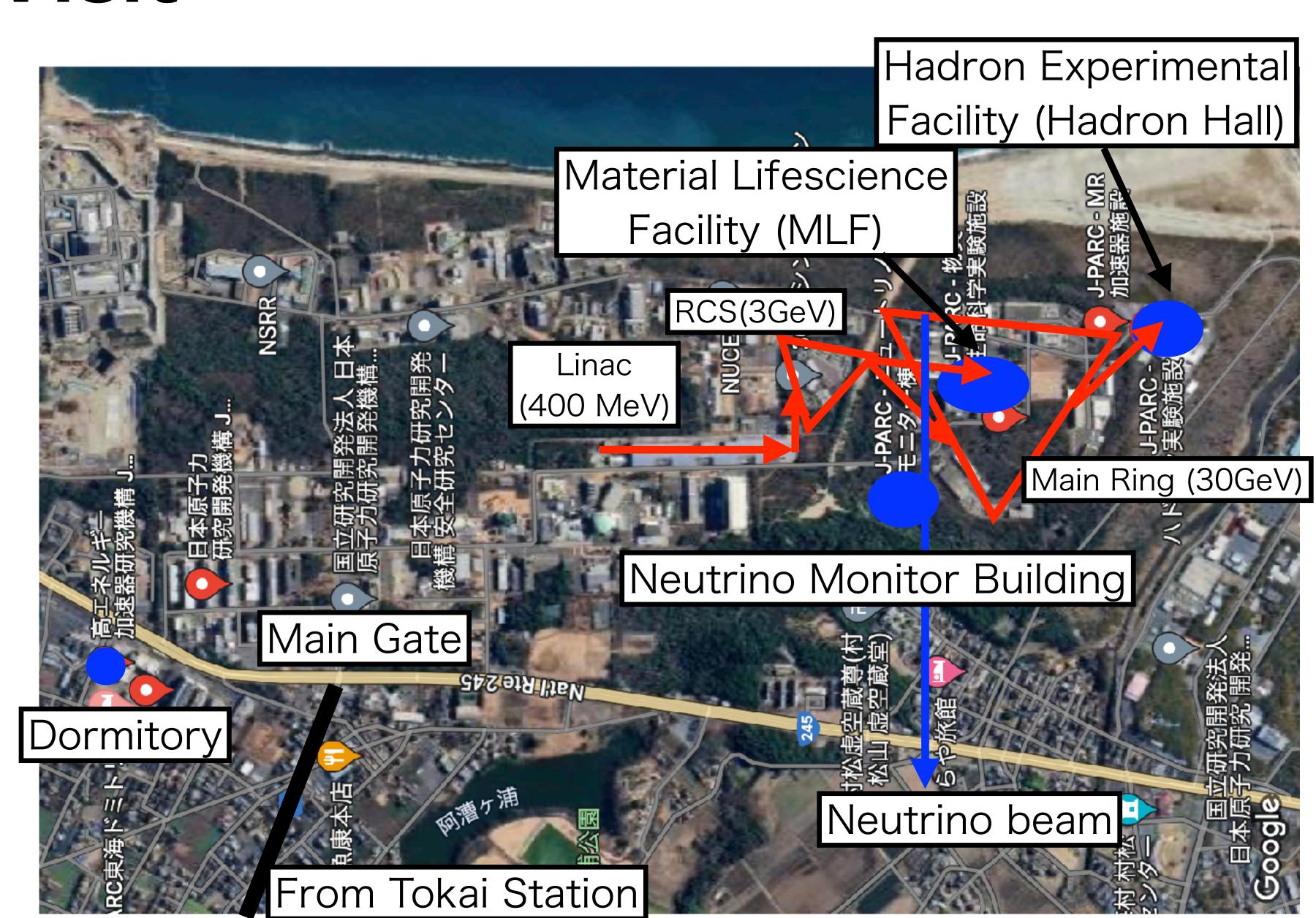


Room 116 , Room 116 in Tokai Building #1 (Tokai-1-go-kan) at KEK Tokai campus

J-PARC Visit

Organized by J-PARC PR division

- 3 items
- Neutrino near detector (Neutrino Monitor building)
- first acceleration of muon for muon g-2/ EDM experiment (MLF)
- KOTO detector (Hadron hall)



J-PARC Visit

- Should be ready to enter the experimental site.
 - Long sleeves, long pants, and shoes heals)
 - If it is inappropriate, you may not go to the most interesting regions. (Strict rule exists. No long-sleeve clothes are prepared at the MLF site.)
- Need an ID card with your photo
 - Please wear the official ID with your photo.
 - Your passport is necessary for the foreign participants.
 - For domestic participants, an ID including a student ID card from your institute or a driver's license is also possible.
 - (Strict rule exists, since the site has a research nuclear reactor.)

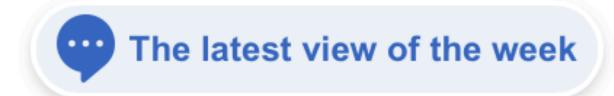
Plan of J-PARC visit with two groups

- Ask you to fill google spread sheet to which group you will join
- Group 1 : neutrino→muon g-2/EDM→ KOTO
 - 14:15 Leave Tokai Building #1
 - 14:40 15:00 Neutrino Near Detector (Neutrino Monitor site)
 - 15:10 15:50 MLF for muon acceleration toward muon g-2/EDM experiment
 - 16:00 15:40 Hadron Experimental Facility for KOTO
 - 16:55 Arrive at Tokai Building #1
- Group 2 : KOTO→neutrino→muon g-2/EDM→ KOTO
 - 14:15 Leave Tokai Building #1
 - 14:45 15:25 Hadron Experimental Facility for KOTO
 - 15:35 15:55 Neutrino Near Detector (Neutrino Monitor site)
 - 16:05 16:45 MLF for muon acceleration toward muon g-2/EDM experiment
 - 16:55 Arrive at Tokai Building #1

Weather

Hot and Humid weather

Weather forecast for Tokai Village, Ibaraki Prefecture



Day (28 Sunday)	29 (Mon)	30 (Tuesday)	31 (Wed)	1 (Thursday)	2)(Friday)	3 (Saturday)	4)(Sunday)	5 (Mon)	6 (Tuesday)	
weather											
The best	33°C	33°C	30°C	31°C	30°C	30°C	30°C	29°C	29°C	29°C	
The lowest	25°C	26°C	24°C	23°C	24°C	25°C	25°C	24°C	24°C	24°C	
ecipitatio	n 40%	40%	40%	30%	20%	20%	40%	60%	40%	40%	
E	Every 5 minutes			Every hour			today, tomorrow		weekly weather		

Be careful of heat stroke

- https://www.mhlw.go.jp/english/policy/health-medical/health/dl/ heatstork.pdf
- High temperature, High humidity
 - the balance of water and salt in the body is disrupted
 - thermoregulation does not function
 - heat is accumulated in the body
- muscle aches, heavy sweating, nausea, and fatigue, the loss of consciousness.
- Take water and salt

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Remarks

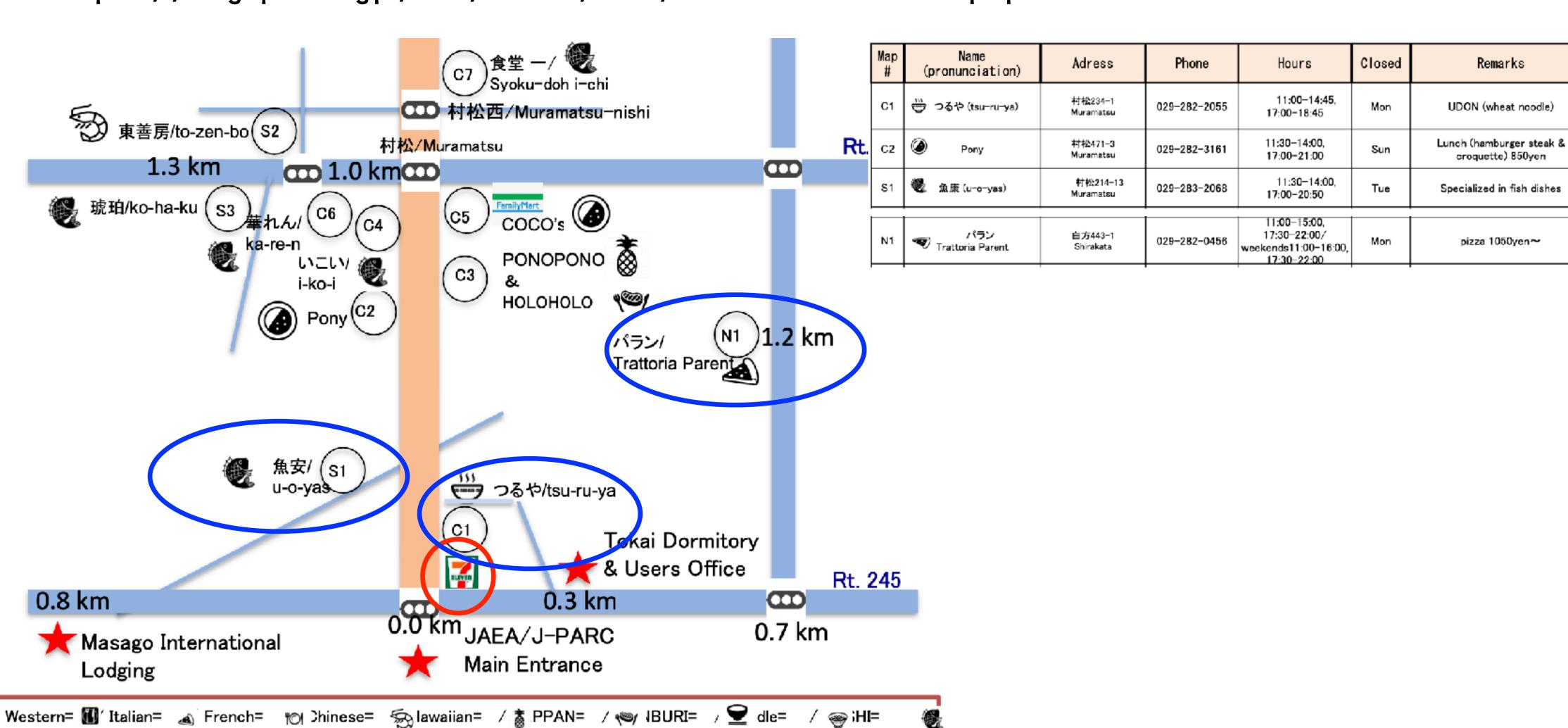
UDON (wheat noodle)

croquette) 850yen

pizza 1050yen∼

Foods

https://is.j-parc.jp/uo/data/life/RestaurantMap.pdf



Thank you

- Supported by KEK IPNS → KEK IPNS workshop
 - Local travel expense, coffee
 - KEK IPNS seminar by Cristina on July 29
- Co-host
 - KEK Theory Center, J-PARC center, Hadron Hall User's Association
- Lots of participants
 - All participants: 113, Onsite participants: 47
- Organizers
 - Yau W. Wah, Evgueni Goudzovski, Cristina Lazzeroni, Karim Massri, Matthew Moulson, Motoi Endo, Andreas Jüttner
 - Local: Tadashi Nomura, Koji Shiomi, Hajime Nanjo