

1st in-person meeting: the week of Sep. 28th

07/29 Meeting Agenda:

- Subgroups: identify the leads, start organizing meetings
 - T1 - Kazu/PdP/Tari: a bi-weekly meeting
 - LArTPC
 - Who: Kazu
 - When: tentatively Tuesday 9AM PDT
 - WC (LS)
 - Who: PdP (Benda?)
 - When:
 - IceCube (telescope?)
 - Who: Max, Kazu, Omar to discuss whether we want to do this?
 - When: meeting among us to build concrete ideas before starting a regular meeting
 - FASERnu
 - Who: Tomoko, Kazu
 - When: meeting among us to build concrete ideas before starting a regular meeting
 - T2 - Ask Callum if he thinks similar organization is useful
- 1st meeting (re)schedule
- Interfacing with new collaborators

07/29 Meeting Minutes:

- Subgroups: identify the leads, start organizing meetings
- 1st meeting (re)schedule
- Interfacing with new collaborators

07/15 Meeting Agenda:

- Discussion on the location for the 1st meeting. Cost estimate for Japanese collaborators for domestic travel
 - Case 1: Kyushu
 - From Tokyo/Chiba (6ppl): 30k flight + 40k hotel (5 nights)

- From Nagoya (1ppl): 23k flight + 40k hotel (5 nights)
 - Cost: 483k JPY
- Case 2: Nagoya
 - From Tokyo/Chiba (6ppl): 24k train + 80k hotel (5 nights)
 - From Kyushu (1ppl): 23k flight + 80k hotel (5 nights)
 - Cost: 727k JPY
- Case 3: Hongo/Chiba/Kashiwa
 - From Nagoya (1ppl): 24k train + 30k hotel (5 nights)
 - From Kyushu (1ppl): 30k flight + 30k hotel (5 nights)
 - 114k JPY
- \$2000 registration income 320k JPY
- Agenda for the 1st meeting

07/08 Meeting Agenda:

- Discussion on the location for the 1st meeting
 - When/where should be the 2nd meeting? Should be in US, must happen before March 31 2027 (Japanese FY)
- Update on US-side funding
 - + attending personnel for in-person meeting
- External collaborators:
 - Create a survey for ideas / on-going data/challenge projects?
 - Input to our projects (T1-T3)
 - Invite participants from the NPML 2025 satellite participants?
 - New mailing list + A survey form (Kazu)

Minutes

- Minutes
 - Planning a meeting in Japan
 - Look up availability (PdP) - need the list of names
 1. Kazuhiro Terao (SLAC),
 2. Hirohisa Tanaka (SLAC),
 3. Ka Vang Tsang (SLAC),
 4. Junjie Xia (SLAC),
 5. Francois Drielsma (SLAC),

6. Samuel Young (SLAC),
7. Callum Wilkinson (LBNL)
8. Roger Huang (LBNL)
9. Taritree Wongjirad (Tufts)
10. Omar Alterkait (Tufts)
11. Patrick de Perio (IPMU),
12. Riya Shah (IPMU),
13. Vinicius Mikuni (Nagoya),
14. Takuya Tashiro (ICRR)
15. Yoshitaka Itow (ICRR)
16. Shuoyu Chen (ICRR)
17. Maximilian Meier (Chiba)
18. Tomoko Ariga (Kyushu)

- ~~○ Mingzhao Song (IPMU),~~
- ~~○ Vera Maiboroda (IPMU),~~

■ Approx cost for travel/accommodation

1. Transportation

- Tokyo to/from Nagoya
- Tokyo to/from Kyushu
 - Train: Shinagawa <-> Hakata: ¥50k, 5.5 hour
 - Flight HND <-> FUK: ¥30k, 2 hour (+airport wait time)

2. Accommodation (per-night hotel) allowance

- U-Tokyo: ¥10.5k(13.1)/night for asst.prof(≥assoc.prof)
- Chiba U: ¥12k/night
 - (Max think Chiba domestic rate is 12k, so this is not the cost, but how much Chiba U reimburses per night)

3. Accommodation (per-night hotel) cost

- Tokyo: ¥12k/night

- Faculty housing: ¥4.5k-8.9k/night (single - twin)
 - ~8 rooms available during the weekdays
 - [Sign-up sheet](#)
 - Chiba: ~¥6k/night
 - Nagoya: ~¥15k/night
 - Kyushu: ¥8k/night
 - Check the meeting room availability
 1. Tokyo (Tashiro-san)
 - Previously at Hongo through Nakajima-san
 2. Chiba (Max)
 3. Kyushu (Ariga-san)
 - 2nd meeting in the US:
 - Max: Dec-Feb parental leave, March could work
 - PdP: none
 - Tashiro-san: HK construction w/ Itow-san from around the end of year (and onward)
 - Ariga-san: teaching + thesis advising till mid/end Feb (end-Feb to March is ok)
 - Vini: After Nov is ok
 - ... could be the week of March 1st.

06/14 Meeting Minutes

- **Decided the 1st in-person meeting in the week of September 28th**
 - Location TBD: Tokyo, Chiba, or Kyushu?
 - Cost estimates at each location
 - Cannot use JP side funding to travel within Japan
- US funding decision not published yet.

05/28 Meeting Minutes

1. Requests to Max and Ariga-san to start considering datasets, tasks, and metrics for OpenDC
 - a. Ariga-san already started thinking and preparing slides for next time
 - i. Brief exploration of commonalities with LAr and emulsion tracks with Ka Vang, and request to include more details events to determine best segmenting method, metadata/ground truth, etc.
 - b. Max mentioned some existing IceCube datasets, but may be some political hurdles to open
 - i. PatrickD suggested to consider LUCiD, which has a new IceCube mode

05/20 Meeting Minutes

Agenda:

1. Sharing the plan and status of T1 data challenge team ([talk link](#))

Summary:

1. The group is primarily focusing on producing the first small dataset (100k-1M), identify issues to be fixed, missing components, and fix/add them.
2. Shared a preliminary list of AI tasks for the T1 data challenge. The list is primarily designed for LArTPC and WC.
 - a. The list was largely derived from the NPML 2025 data workshop discussion ([workshop indico link](#), if people are interested in, one of us can give a summary talk for the workshop).
3. Raised several concrete discussion points to motivate a sub-group meeting. Below are some examples from the discussion that concretely motivates a sub-group meeting among e.g., T1 R&D group and OpenDC conveners and/or other AI experts (e.g., T2 group), domain experts for physics needs.
 - a. Anything missing in the list?
 - b. Which ones can be common across different detector/experiment domains?
 - c. What would be the equivalent list for FASER/IceCube?
 - d. How should the performance metrics (=AI data challenge metrics) be correlated with physics impacts? What are physics impact metrics, and what's the transformation matrix from the performance metrics?
4. Beyond data generation, T1 group is working on the documentation and web design (front end) for presentation. Some thoughts are shared for the backend (e.g., automated solution evaluation, logging like database, and presentation such as a leaderboard). The current attempt for the docs and web design is not limited to T1, and includes doraemon as a whole (not only OpenDC: e.g., KHub,

CE) because the design concerns the integration of T1 with the overall Doraemon in presentation to the public.

- a. After the first draft is complete, we ask for a review by everyone in Doraemon (of course, you are welcome to join anytime w/o waiting). We work under an assumption of a complete re-write as a good design can only emerge from iterative process

Next meeting ([indico](#)): ~~May 25th Monday 7PM PDT (=May 26st, Tuesday 11AM Japan)~~

Next meeting ([indico](#)): May 27th Wed. 7PM PDT (=May 28st, Thu. 11AM Japan)

- Kazu will ask Callum/Roger/Vini to share the similar plan/status from T2
- We will discuss in-person meeting schedule + initiation of a sub-group meeting

05/13 Meeting Minutes

Agenda:

1. Continued discussion:
 - a. identify already known to-do's and prioritization
 - b. organization sub-structure (sub-group meetings, reporting)
 - c. attempt to decide the 1st in-person meeting
2. Engagement with outside
 - a. Infrastructures (e.g. Genesis Mission, AI Universe)
 - b. Collaboration (e.g. other AI projects and resources)
3. Progress research thrusts
 - a. Light discussion, this probably should be in a separate sub-group meeting in the future for details, and top-level report for this kind of a project-wide meeting.

Discussion outcomes:

- 1.b ... sub-structures (T1, T2, T3, OpenDC, KHub, and CE) and sub-group meetings make sense once we have concrete subjects. For now, no sub-group meeting is necessary. We need concrete subjects = T1 and T2 datasets, challenge details (metrics, evaluations), and fundamental documentations. We invite T1 and T2 groups in the future meetings to give us their plan/status. Then build concrete to-do's and discussion items for the subgroups.
- 1.c ... Everyone please fill [the google form](#)! Deadline May 15th. We hope to converge by the next meeting time. Have your young members fill the poll.
- 2.b ... We agreed it is ok to informally invite collaborators outside the original Doraemon members (i.e. members of the Pls' groups). Example: Cesar

Jesus-Valls is from CERN but taking a critical lead in generating Water Cherenkov dataset.

- Related points/issues have been raised by Hiro
 - What does it mean to be a member of Doraemon?
 - E.g. does it imply authorship in publications? Other responsibilities like review committee?
 - Do we need to establish a formal collaboration (e.g. “bylaws”?)
- 3.a ... We will invite T1/T2 research thrust leads to share the progress in preparing datasets and defining challenge details

Next meeting: May 20th Wednesday 7PM PDT (=May 21st, Thursday 11AM Japan)