

Possible areas of collaboration

- Muon $g-2$ /EDM
 - Muon polarization monitor
 - Field mapping (trolley) and monitoring
 - Systematics on beam dynamics + detection (including the phase-acceptance effect)
 - Fast-rotation analysis (\rightarrow muon lifetime?)
 - Muon EDM analysis (new idea?)
 - Applications of AI, ML
 - track reconstruction
 - Field mapping
 - <https://www.nature.com/articles/s41598-022-15777-4.pdf>
- General topics
 - New experimental ideas with muonium?
 - Very-fast semiconductor detector? (LGAD, SiGe, ..)
 - Intense muon source, muon cooling

Future plan

- Next workshop
 - In KEK
 - August, 2023 (after semester ends)
 - (Quarantine period in China, 10 days for now)
- J-PARC visit
 - Beam time: from Nov, 2022 – Feb, 2023, then April-June, 2023
 - Discuss possible visits to Japan (offline)
- SJTU visit
 - Perhaps, next year.