

Proposal of ITF Subgroups in 2023

Y. Ohnishi

Proposal of 2023 activity (January - December)

Dec. 12, 2022
Y. Ohnishi

Group Name	Chairperson	Deputy Chairperson	Remarks
Beam Tuning	Y. Ohnishi ^A	H. Sugimoto ^A	strategy of beam commissioning and machine study, optics issues, beam lifetime and dynamic aperture, beam monitors and magnets, everything is included
Collective Effect	G. Mitsuka ^A	M. Migliorati ^B , A. Blednykh ^C , N. Wang ^D , D. Zhou ^A , T. Ishibashi ^A	improvement of luminosity performance, understanding of beam-beam interaction, single-bunch and multi-bunch instabilities, impedance budget, beam halo
Beam Injection	N. Iida ^A	T. Yoshimoto ^A	understanding and improvement of injection efficiency, beam blowup in the beam transport lines, stability of beam injection, quality control of injected beams, linac tuning
Sudden Beam Loss	H. Ikeda ^A	H. Nakayama ^A	understanding the mechanism, consideration of beam monitors, machine protections
IR Upgrade	D. Zhou ^A	X. Wang ^A , (CERN), (IHEP), (BNL) , etc.	upgrade path for LS2, reduce lattice nonlinearity, improvement of field quality, separation from solenoid field, discard offset of beam orbit to reduce fringe effects

^{A)} KEK, ^{B)} UNIROMA1, ^{C)} BNL, ^{D)} IHEP

suggested by D. Zhou

Chairperson: G. Mitsuka (Coordination of collaborations on measurements of collective effects in SuperKEKB)

Deputy chairpersons:

T. Ishibashi (Coordination of activities on impedance modeling for SuperKEKB)

D. Zhou (Coordination of collaborations on beam-beam effects in SuperKEKB)

M. Migliorati (Representative of FCC-ee, Coordination of SuperKEKB and FCC-ee collaboration on collective effects)

N. Wang (Representative of CEPC, Coordination of SuperKEKB and CEPC collaboration on collective effects)

A. Blednykh (Representative of EIC, Coordination of SuperKEKB and EIC collaboration on collective effects)

- The IFT activity is extended for another year. This proposal covers the period through the end of 2023.
 - No machine operation for 2023ab (February - July), we have to discuss things based on data until 2022.
- The chairperson, together with the deputy chairpersons, determines the direction of subgroup. The chairperson makes a final decision.
 - We are welcome anybody wants to be a deputy chairperson from foreign institutes.
- The chairperson and deputy chairpersons select the items to be discussed and preside over the meeting. The meeting should be held at least once a month (or two months?).
 - There is a difficulty in choosing the time of the meeting (Japan-Europe-US). 17:00- or 21:00-
 - We have 5 subgroups, so meetings will be held every week in average. If one try to attend all meeting, is it possible?
 - We may use e-mail or an instant message program such as "Slack" to make up for the meeting.
 - "Slack" and "Mattermost" are very useful for sharing information. We have already used it at SuperKEKB.
- The items include short-term (for Phase 4 after LS1) and long-term issues (Phase 5 for LS2 and after).
- Summary report from each subgroup should be written by the end of 2023 as well as the 2022 activities.