



Report from Physics Coordinators

Keisuke Fujii
on behalf of the Physics WG
Dec 16, 2020

ILC Situation in Japan

- **The political environment about ILC is now very good, thanks, in particular, to strong US support. A new deputy-MEXT minister, Ms. Takahashi, responsible for S&T policy from Iwate, very supportive. Multiple discussion sessions held.**
 - **Remaining hurdle: how to secure financial resource outside the ordinary S&T budget.**
- **The climate change: The first stage of the ILC is 250 GeV but, now studies on energy upgrade even above 1 TeV is encouraged. Discussions on non-colliding beam experiments using the ILC facility starting.**
- **In spite of the recent resurgence of the COVID19, KEK is operating in the new normal mode, and various ILC promotion activities are on-going. Various strategy discussions on going in KEK and JAHEP (Future HEP Project Committee). Note: Interim version of KEK RM is out for comments from JAHEP, the final version expected after international review, maybe in April.**
- **JAHEP ILC Steering Panel has just been established to lead the HEP community in Japan to advance the ILC project towards its timely realization.**
- **The International Development Team (IDT) took over LCC/LCB:**
 - **IDT Membership is open to public since Sep.11, substructure being formed.**
 - **Actively working on Snowmass process to expand the ILC community.**
 - **Preparation on-going for JFY2022 budget request to establish Pre-Lab.**
- **Tohoku upgraded its ILC promotion organization, Tohoku ILC Project Development Center, on Aug.6.**
 - **Now actively promoting ILC.**

IDT Phys/Det WG
(WG3)

A New Long Writeup for Snowmass

Purposes:

- 1. To assemble the full ILC story for the benefit of the Snowmass conveners and P5.**
- 2. To provide a vehicle for many members of the US community to sign and hopefully contribute.**

Deadline: ~ June 2021?

→ might be delayed because P5 could be delayed by one year according to Young-kee Kim.

LC Workshops

Dates being discussed, probably

1. **LCWS, with session on experiments, new ideas, ...**
March 15-19, 2021, fully virtual
2. **A community engagement workshop on experiments, *October 26-29, 2021, hopefully in person in Japan***

ILD Physics WG Activities

***- Joint Effort with Software WG
and IDT WG3 -***

Today (Dec. 16)

- ***e+e- → Zγ, first look at the new 250 GeV sample by Takahiro***
- ***Getting high: high fidelity simulation of high granularity calorimeters with high speed by Engin***

***Staus Update on
ILD(-related) Papers***

ICHEP Proceedings

- ***Teresa on SUSY: submitted***
- ***Graham on PEWO : working on draft***
- ***Remi on ILD soft&det : implementing comments***
- ***Daniel on Higgs at ILC: submitted***

Journal Papers

- ***$H \rightarrow \mu^+\mu^-$: Shin-ichi : accepted by EPJC!***
- ***FIR edge detection : S.Caiazza, M.Chera : comment period ended, waiting for PSB's response***
- ...

Proposed S&A meeting schedule

Dec. 16: KF

--- Christmas & New Year Break ---

Jan. 13: Frank

Jan. 20: Jenny

Jan. 27: KF

***Weekly S&A meeting on Wednesday at 15:00 CERN time,
shifted by 1 hour for US west coast people***

Schedule also on

<https://confluence.desy.de/display/ILD/ILD+Physics+Working+group>

***Physics conveners' meeting every two weeks on Wednesday
at 14:00 CERN time interleaved with S&A meetings.***

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

Stay healthy!