



Report from Physics Coordinators

Keisuke Fujii
on behalf of the Physics WG
June 19, 2019

Situation in Japan

Not very much I can tell now.

- *The KEK International WG is meeting monthly since its 1st meeting on May 17 in Granada*
 - *Will produce its draft report in time for the LCB meeting on August 7 in Toronto. Final report in September, 2019.*
 - *A preparatory group in KEK doing homework for the International WG.*
- *SCJ Master Plan Process on-going.*
 - July 8: a prioritized list to the upper committee*
 - Late July: list of projects to go to the hearing stage*
 - Sep. 14-16: hearing to make the short list*
- *Preparation on-going for establishing governmental level Discussion Groups with France and Germany. Japanese delegation will visit Europe on July 1-2.*
- *The Federation of Diet Members for ILC met on June 12.*

LCC Physics WG
Inputs to ESU

LCC Physics WG have submitted

- a paper on ***ILC Capabilities for Precision EW Measurements*** that include
 - ***the machine parameters for the Giga-Z option,***
 - ***on-shell and off-shell Z-ff couplings (g_L and g_R) at Giga-Z,***
 - those using ***radiative return to Z events at 250 GeV,*** and
- a paper on ***Higgs couplings with 1 TeV data, including top Yukawa and cubic self-coupling***

to the relevant ESU working groups

***ILD Physics WG
Activities***

Benchmark Analyses

- ***Candidate plots from most analyses have been uploaded to the confluence page:***

<https://confluence.desy.de/pages/viewpage.action?pageId=89671192>

Keep interacting with reviewers and updating analysis notes.

- ***IDR benchmark analysis section is in a good shape:***

<https://confluence.desy.de/display/ILD/The+ILD+Design+Report%2C+IDR>

250 GeV Analysis

Preparation on going: requests for 250 GeV data set?

- ***Today (June 19): on***

WIMP benchmark

by Ryo Yonamine

$e^+e^- \rightarrow t\bar{t}$ (right-handed pol.)

by Victor Lohezic

Conference Presentations

EPS-HEP 2019:

July 10-17 in Ghent, Belgium

<http://eps-hep2019.eu/index.html>

Schedule for the practice talks

- Probing the dark sector via searches for invisible decays of the Higgs boson at the ILC: (Higgs) → ***Yu, 13:00 (CEST) July 5***
- Production and electroweak couplings of 3rd generation quarks at the ILC: (Top & EW) → ***Adrian, 14:00 (CEST) July 9***
- The ILC as a natural SUSY discovery machine and precision microscope: From light higgsinos to tests of unification: (Searches for New Physics) → ***Swathi, 13:00 (CEST) July 5***

Proposed S&A meeting schedule

June 19: Daniel

June 26: Frank

July 17: KF

July 31: Jenny

Aug. 14: Frank

Aug. 28: Daniel

...

***Weekly physics conveners' meeting every Tuesday (w/o GW)
at 9:00 CERN time (changed from 13:00)***

Biweekly S&A meeting until the summer vacation is over.

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.