



Report from Physics Coordinators

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on behalf of the Physics WG
May 6, 2020

ILC Situation in Japan

Current Status

- ***Because of COVID19, it is not an appropriate time to bring up a big scientific project like ILC.***
- ***However, the political environment about ILC is now very good.***
- ***The client change: The first stage of the ILC is 250 GeV but, now studies on energy upgrade even above 1 TeV is encouraged.***
- ***Expert Panel for “Strategic Environmental Assessment”, a joint committee with Japan Society of Civil Engineers for CFS review, and a study group for economic ripple effects have basically finished their reviews and are preparing reports.***
- ***Various strategy discussions starting in KEK (KEK Roadmap, IPNS RPC) and JAHEP (Future HEP Project Committee).***
- ***The International Development Team to take over LCC/LCB being discussed to be installed in a timely fashion.***

LCC Physics WG
preparation for Snowmass

LCC Physics WG is now gearing up its activity towards Snowmass

- Jenny has sent our ILD collection of topics to the LCC Physics WG
- Discussion starting regarding MC samples for Snowmass studies to be opened to new comers.
 - Fast simulation based on DELPHES? SGV?
→ ***Discussions have just started***

***ILD Physics WG
Activities***

Benchmark Analyses

- **Extra Higgs: comments being implemented**
tt/bb: new draft in ILD circulation until April 29
- H→bb/cc/gg: comments on the new draft (v.8) have been received.**
Others: done
- **Keep communicating with reviewers and finalize analysis notes if you haven't. Don't forget to update GitHub and Confluence pages:**

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

Today (April 22)

- **Takahiro on JES calibration**
- **Validation of 250 GeV test samples: Uli on dE/dx and Keita on 2f-leptonic sample**

Benchmark Analyses

- **Extra Higgs: in ILC circulation until May 1**
tt/bb: new draft in ILD circulation until April 29
- H→bb/cc/gg: comments on the new draft from referees, an informal meeting with referees expected.**
Others: done
- **Keep communicating with reviewers and finalize analysis notes if you haven't. Don't forget to update GitHub and Confluence pages:**

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

Today (May 6)

- **Validation of 250 GeV test samples: Junping on muon ID.**

Conferences

ICHEP 2020 (physics)

From ILD

- Heavy quark production in high energy electron positron collisions
- Improving Electroweak Precision Observables Including m_w , Γ_w , A_{LR} and TGCs with the ILD Detector
- ILC as a SUSY discovery and precision instrument

From LCC Physics WG

- Expectations for Precision Tests of the Standard Model at the ILC
- Polarized Beams at Future e+e- Colliders
- Precision Higgs physics at the ILC, and its impact on detector design

All accepted as oral presentations!

Candidate speakers have been proposed to PSB.

Proposed S&A meeting schedule

May 6: Jenny (so called Golden Week in Japan)

May. 20: Daniel (holiday-heavy week in Europe)

Jun. 3: KF

Jun. 17: Frank (TBC)

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Biweekly S&A meeting on Wednesday at 14:00 CERN time.

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!