



Report from Physics Coordinators

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on behalf of the Physics WG
June 17, 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, thanks, in particular, to **strong US support** (next page).*
- *The climate change: The first stage of the ILC is 250 GeV but, now **studies on energy upgrade even above 1 TeV is encouraged.***
- *Emergency state has just been lifted all over Japan.*
 - *KEK is restarting its normal activities. (SuperKEKB is running. JPARC has just started beam tuning.)*
 - *In Tokyo, **various ILC promotion activities resuming** (next page).*
- *Various strategy discussions are on going 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.*

Recent Development in the Political Sector

On June 5, 2020, the **National Diet (parliament)** of Japan passed a series of bills related to the recovery efforts after the **Great Eastern Japan Earthquake** of 2011, including a **10-year extension of the Reconstruction Agency**, which is now set to expire in March 2031. The special annual budget allocated for the recovery efforts will also be sustained.

At the house special committee meetings held prior to the voting, supplementary resolutions were adopted, containing **a supplementary resolution about the ILC project** (see below), out of a total of approximately 25 supplementary resolutions. As per the tradition, a response by the government was given by the Minister of Reconstruction at the end of the committee meetings, who stated that **the contributions by the committee members and the intent of the supplementary resolutions will be duly respected.**

衆議院附帯決議

5 「新しい東北」に資する国際リニアコライダー等の国際研究開発プロジェクトが我が国で実施される場合には、被災地に誘致されるよう関係機関と連携、協力すること。

Supplementary Resolution #5 by the House of Representatives (unofficial translation)

*In cases where international research and development projects, such as **the International Linear Collider** which will contribute to the creation of a “New Tohoku”, are to be implemented in Japan, coordination and cooperation should be done with relevant organizations so that the projects can be hosted in the disaster-stricken areas.*

参議院附帯決議

26 国際リニアコライダー計画は東北が世界的候補地になっていることから、その推進は福島イノベーション・コースト構想と並んで東北をフィールドとした科学イノベーションの創出による「新しい東北」に資するものであり、国内誘致に向け関係機関と検討を進めること。

Supplementary Resolution #26 by the House of Councillors (unofficial translation)

*Since the Tohoku area is the world’s candidate site for **the International Linear Collider** project, its implementation will contribute, alongside the Fukushima Innovation Coast Framework, to the creation of a “New Tohoku” by becoming a breeding ground for scientific innovation; considerations towards hosting in Japan should proceed together with the relevant organizations.*

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
- A list of physics questions being compiled by Michael Peskin with inputs from LCC Physics WG members + alpha (main contributors include Jenny and Junping).
- The latest draft (v.7) (with descriptions of MC samples) has been sent to Snowmass EF conveners.
- Discussions/studies for MC samples for Snowmass studies on going.
 - Fast simulation based on DELPHES (Marcel, Filip, Pawel), SGV (Mikael)
 - Mini-/Micro-DST from full simulation data (Shin-ichi)
 - ***Status report on DELPHES cards and mini-DST today***
- ***Sign up for Snowmass Energy Frontier WGs***
 - ***see Graham's talk at the General ILD phone meeting on May 12.***

ILD Physics WG Activities

- Joint Effort with Software WG -

Benchmark Analyses

- **Extra Higgs: done** (<https://arxiv.org/abs/2005.06265>)
- **tt/bb: done**
- **H→bb/cc/gg: a new draft (v.10), content-wise OK now, cosmetic/language-related comments being worked on**
- **Others: done**

Today (June 17)

- **Validation of single-particle test samples with SDHCal by Camilo**
- **Update on the mini-DST project by Shin-ichi**
- **Towards a DELPHES Card for a “generic ILC detector” by Pawel**
- **Update on low delta M higgsinos by Swathi**

Proposed S&A meeting schedule

Jun. 17: Jenny
Jul. 1: Frank (TBC)
Jul. 15: Daniel
Jul. 29: KF
Aug. 12: Jenny

...

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:

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Use this mailing list to send your talk request.