



# Report from Physics Coordinators

Keisuke Fujii  
on behalf of the Physics WG  
July 29, 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 (Chris Fall, DG of DOE Office of Science, at a recent HEPAP meeting).***
- *The climate change: The first stage of the ILC is 250 GeV but, now **studies on energy upgrade even above 1 TeV is encouraged.***
- *Although the number of infection cases is increasing,  
→ **KEK is operating in the new normal mode,**  
→ **and various ILC promotion activities are on-going, through the federation of diet members for ILC. Political environment improving.**  
→ **Tohoku will renew/upgrade its ILC promotion organization.***
- *Various strategy discussions are on going in KEK (KEK Roadmap) and JAHEP (Future HEP Project Committee). Note: **IPNS RPC finished, recommending further enforcement of ILC promotion effort.***
- *The International Development Team to take over LCC/LCB:  
→ **LCB's proposal sent to ICFA, to be approved on Aug.2. A new ICFA statement would probably be a few days later.***

# ***ILD Physics WG Activities***

***- Joint Effort with Software WG  
and LCC Physics WG -***

***Today (July 29)***

- $dE/dx$  validation for 2nd test production by Uli***
- Update on the  $Z\gamma$  analysis by Takahiro***

# ***ICHEP 2020***

## ***ILC Talks***

<http://ichep2020.org>

## ***Higgs: July 31***

- Michael (LCC): Expectations for precision tests of the Standard Model at the ILC
- **Daniel** (LCC): Precision Higgs physics at the ILC and its impact on detector design
- **Junping**: A new way of understanding the role of each measurement in SMEFT

## ***Top/EW: July 28, 31***

- **Graham (ILD)**: Improving Electroweak Precision Observables including  $m_W$ ,  $\Gamma_W$ ,  $A_{LR}$ , and TGCs with the ILD
- **Adrian (ILD)**: Heavy quark production in high energy electron positron collisions

## ***Computing and data: July 29, 31***

- **Mikael** (LCC): Generating the full SM at linear colliders
- **Remi(ILD)**: The ILD software tools and detector performance

## ***Detectors for future facilities: July 29, 31***

- Andy White (SiD): The SiD detector for the International Linear Collider
- **Tomohiko (ILD)**: ILD, a detector for the International Linear Collider

## ***Accelerator physics: July 30***

- **Jenny** (LCC): Polarized beams at future e+e- colliders

## ***BSM: July 31***

- **Teresa (ILD)**: ILC as a SUSY discovery and precision instrument

# *Proposed S&A meeting schedule*

*Jul. 29: Frank*

*July 28 - Aug. 6: ICHEP 2020 <http://ichep2020.org>*

Aug. 12: Jenny

Aug. 26: Daniel

Sep. 9: KF

...

*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](mailto:ild-physics-conveners@desy.de)

*Use this mailing list to send your talk request.*

***Stay healthy!***