



Report from Physics Coordinators

Keisuke Fujii
on behalf of the Physics WG
June 30, 2021

ILC Situation in Japan

- **The political environment about ILC is now very good, thanks to strong US support. A new deputy-MEXT minister, Ms. Takahashi, responsible for S&T policy, very supportive. Masa is talking to MEXT. Amid the 4th wave of COVID19, however, it is not a perfect time to bring up a big scientific project like ILC.**
- **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.**
- **Despite the 4th wave of COVID19, KEK is operating in the new normal mode, and various ILC promotion activities are on-going. The KEK PIP process started.**
- **JAHEP ILC Steering Panel was established on Oct.28 to lead the HEP community in Japan to advance the ILC project towards its timely realization.**
 - **Background briefing to media, explanation to other fields, on going.**
 - **An X+ILC series of informal talks on going to involve new comers (7 times).**
- **The International Development Team (IDT):**
 - **Working on Snowmass process to expand the ILC community.**
 - **Pre-Lab proposal published and submitted to MEXT together with a report on remaining issues pointed out by the MEXT panel and the SCJ committee. Budget request to launch Pre-Lab would have to wait (details would be explained by Hitoshi next week at the monthly ILD phone meeting.**
- **Tohoku upgraded its ILC promotion organization, Tohoku ILC Project Development Center, on Aug.6.**
 - **Now actively promoting ILC, including English translation of CFS related documents, etc.**

IDT Phys/Det WG (WG3)

<https://linearcollider.org/team/wg3/>

WG3 Meeting every two weeks (last one on June 22)

- ***IDT's Pre-Lab proposal and budget request situation***
- ***Media events (a series of media lectures) started***
- ***The fall WS (ILCX2021) preparation status***
- ***Reports from subgroups***

News from IDT

Physics Potential & Opportunity Group: M. Peskin, A. Robson, J. Tian

1st TG meeting (Modeling & Precision Theory) on June 10

Task force meeting (Fixed Target) on June 16

ECFA Higgs factory kick-off meeting on 18

Regular monthly meetings:

June 17, July 15, August 12, September 16

Snowmass restarting (EF from July), EF workshop: August 30, September 3

Software/Computing Group: Frank Gaede, Daniel Jeans, Jan Strube

Updates

- Reminder: Tutorial on Delphes and miniDST
6/23: <https://agenda.linearcollider.org/event/9264/>

Speakers for EPS-HEP

EPS-HEP abstracts EPS-HEP, July 26, <https://www.eps-hep2021.eu/> (5 physics + 1 detector talk) submitted

Accepted:

Parallel (4)

1. "New ideas on detector technology for the ILC experiments" with ID #464 has been accepted in track "Detector R&D and Data Handling"
<https://indico.desy.de/event/28202/abstracts/10856/> Maxim Titov (CEA Saclay)
2. "Top quark physics at ILC" with ID #467 has been accepted in track "Top and Electroweak Physics" <https://indico.desy.de/event/28202/abstracts/10860/> Roman Poeschl (LAL Orsay),
3. "Higgs invisible and rare decays at ILC" with ID #466 has been accepted in track "Higgs physics"
Christopher Thomas Potter (University of Oregon)
4. "ILC Higgs physics potential" with ID #465 has been accepted in track "Higgs physics"
<https://indico.desy.de/event/28202/abstracts/10857/> **Shin-ichi Kawada (KEK)** Poster (2)
1. "CP violation in the Higgs sector at ILC" with ID #469 has been accepted in track "Flavour Physics and CP Violation" <https://indico.desy.de/event/28202/abstracts/10862/> T. Jovin (VINCA)
2. Probing dark matter with ILC, has been accepted in track "Dark matter"
<https://indico.desy.de/event/28202/contributions/> **Wojciech Kotlarski (TU Dresden)**
IDT WG3 Speakers Bureau Report, June 22 2021 1

Bold red names: corrected after the meeting

ILD Physics WG Activities

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

Today (June 30)

→ ***Comments/requests/questions for CPV analysis by
Tatjana (Analysis talk postponed to the next week)***

Conferences

EPS talks

ILD conference talks

Kiyotomo Kawagoe posted on 15. 5. 2017 04:06h - last edited by Kiyotomo Kawagoe on 22. 6. 2021 11:25h

Conference	date	title	speaker/presenter	slides/poster	proceedings	notes
EPS-HEP 2021	July 26- 30, 2021	Heavy Neutrinos at Future Linear e+e- Colliders	Krzysztof Mekala (Warsaw)	poster		for CLIC/ILC
		Charged Hadron Identification with dE/dx and Time-of-Flight at Future Higgs Factories	Ulrich Einhaus (DESY)	poster		
		Kinematic fitting for ParticleFlow Detectors at Future Higgs Factories	Yasser Radkhorrani (DESY)	poster		
		New physics searches with the ILD detector at the ILC	Mikael Berggren (DESY)	slides		
		A combined fit to the Higgs Branching Ratios at ILD	Jonas Kunath (LLR)	slides		

Proposed S&A meeting schedule

Jun. 30: KF
Jul. 7: Frank
Jul. 14: Daniel (TBC)
Jul. 21: Filip
Jul. 28: KF

A short S&A meeting every Wednesday at 14:00 CERN time

Schedule also on

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

Physics conveners' meeting every two weeks on Wednesday at 13:00 CERN time.

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

Stay safe!