



Report from Physics Coordinators

Keisuke Fujii
on behalf of the Physics WG
June 16, 2021

ILC Situation in Japan

No update since the ILD meeting

IDT Phys/Det WG (WG3)

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

WG3 Meeting every two weeks (last one on June 8)

- ***IDT's Pre-Lab proposal open to public***
- ***Communication***
- ***The fall WS preparation status***
- ***Reports from subgroups***

News from IDT

~~“Interim~~ Proposal for the ILC Pre-Lab” now open to the public

<https://newslines.linearcollider.org/2021/06/01/ilc-preparatory-laboratory-proposal-released/>

The Fall WS (ILCX 2021)

Oct. 26-29

Web site is open.

<https://agenda.linearcollider.org/event/9211/>

Given the uncertainties with the COVID-19 situation, three possible styles are being prepared in parallel: (1) in-person meeting in Tsukuba, Japan, (2) hybrid meeting on the KEK site, and (3) fully online meeting. Decision between (1) vs (2,3) will come by the end of June.

PREPRINTS

1 JUNE 2021

2105.12962

Physical reach of a long-lived particle detector at Belle II

2105.12276

Optimization of a traveling wave superconducting radiofrequency cavity for upgrading the International Linear Collider

2105.11189

A 90 GeV Higgs Boson in the 2HDM-1 type-II collider prospects

2105.11015

A high luminosity superconducting twin wake-field linear collider with energy recovery

2105.09916

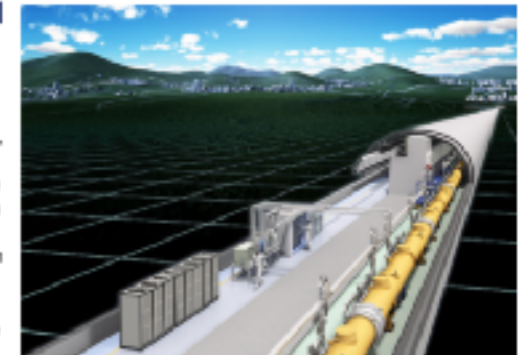
Site searches at the ILC

DIRECTOR'S CORNER

ILC Preparatory Laboratory proposal released

by Tatsuya Nihei

After ten months of work, the ILC International Development Team, mandated to prepare the ILC Preparatory Laboratory, is reaching the first milestone with the release of a proposal which outlines the organizational framework, an implementation model and work plan of the Pre-lab. Many scientists contributed to this effort, showing the great interest of the community in the ILC project. A signal from the Japanese government towards indicating its interest in hosting the ILC and supporting the Pre-lab would now be required for gaining stronger engagement of interested laboratories around the world.



communication

- need to obtain understanding from other scientific communities in every country
 - e.g., HM gave a colloquium to ~150 astronomers on May 28
 - need a short crisp case (Tatsuya)
- task force on communication
 - elevator pitch to each scientific community
 - common slides
 - volunteers?

Regular ILC Software tutorials

grow and educate the community and newcomers

- organising a series of monthly seminars tutorials
- **Wednesdays**
 - 06:30 PDT / 15:30 CEST / 22:30 JST
 - 60~90 minutes
- first one will be on June 23:
 - DELPHES ILC card (Filip Zarniecki)
 - “make your first ILC Higgs plot” (Jenny List)
- second one on **July 21:**
 - Introduction to iLCSoft (Thomas Madlener)

<https://agenda.linearcollider.org/category/273/>

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

2nd Open Meeting This Friday at 15:00 CEST

<https://agenda.linearcollider.org/event/9239/>

- ◆ Initially: regular monthly open scientific meetings, each organised by 2–3 Topical Groups – frequency will increase gradually as more people join. Schedule:

- **Thursday 17th June**, 3pm CEST
- **Thursday 15th July**, 3pm CEST
- **Thursday 12th August**, 3pm CEST
- **Thursday 16th September**, 3pm CEST

Global Interpretations and BSM talks
including: Status update on EFT fits
Connecting UV models to EFTs

ILD Physics WG Activities

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

Today (June 16)

- ***Optimization of preselection for bb/cc/ss studies at ILC250GeV with ILD by Jesus***

Reminder

***Registration Page for
The ILC White Paper for Snowmass 2022***

***Register on the authors/supporters list for the ILC White Paper
for Snowmass through***

<https://agenda.linearcollider.org/event/9135/>

Subscribe to various mailing lists through

<https://agenda.linearcollider.org/event/9154/>

IDT-WG3-Phys 2nd Open Meeting

Thursday, June 17, 2021, 15:00 - 17:00

<https://agenda.linearcollider.org/event/9239/>

ECFA WS on e+e- Higgs/EW/Top Factory

Friday, June 18, 2021, 14:00 - 17:30 CEST

<https://indico.cern.ch/event/1033941/>

Conferences

From PSB (see Kiyotomo's message on June 14: Call for speakers for the accepted EPS talks

The abstracts so far accepted are listed below. The details can be found at the confluence page:
<https://confluence.desy.de/display/ILD/Abstract+submission>

398. New physics searches with the ILD detector at the ILC
Track classification: Searches for New Physics
Presentation type: Parallel session talk

399. Charged Hadron Identification with dE/dx and Time-of-Flight at Future Higgs Factories
Track classification: Detector R&D and Data Handling
Presentation type: Poster

400. Kinematic fitting for ParticleFlow Detectors at Future Higgs Factories
Track classification: Detector R&D and Data Handling
Presentation type: Poster

402. A combined fit to the Higgs Branching Ratios at ILD
Track classification: Higgs physics
Presentation type: Parallel session talk

Please send nominations to ild-psb@desy.de by this weekend (June 18). Nominations can be submitted by anybody in the ILD concept group, including self-nomination, with a short justification.

Proposed S&A meeting schedule

Jun. 16: Frank
Jun. 23: Filip
Jun. 30: KF
Jul. 7: Daniel

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!