



Annual ILC-detector meeting

2022 / 3 / 9

Daniel Jeans, IPNS



Institute of Particle and
Nuclear Studies

strong global consensus for an e+e- Higgs factory

- * European strategy update 2020 → ECFA Higgs factory study
- * U.S. P5 (2014) ; Snowmass 2021
- * JAHEP
- * ICFA → ILC International Development Team

but also difficult times

- * COVID
- * MEXT committee report
→ no move to ILC “pre-lab” in short-term



09:35 → 09:50

Report from ILC-IDT-WG3

Speaker: Hitoshi Murayama (University of California)

09:50 → 10:05

Report from ILD

Speaker: Kiyotomo Kawagoe (Kyushu University)

10:05 → 10:20

IPNS perspective

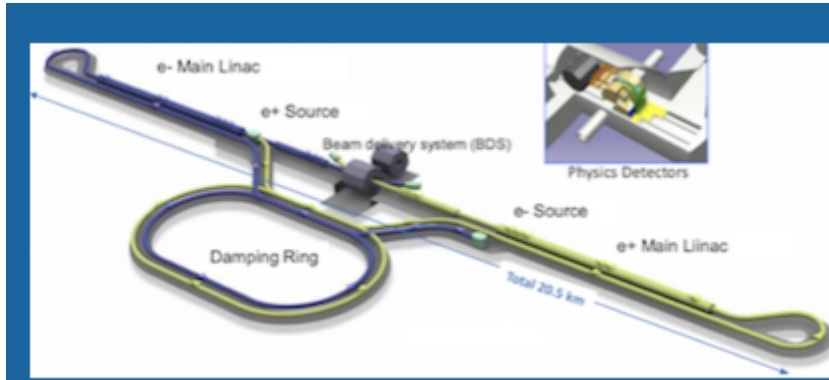
Speaker: Naohito Saito (IPNS)

despite the sometimes depressing situation,

we together manage to keep the ILC dream alive,

to make significant contributions to ILC & Higgs factory
detector R&D, physics studies, ...

in close collaboration with colleagues from around the world.



ILC Report to Snowmass 2021

Participant List

438 participants

(~172 from JP)

To show your support for ILC,
please sign this Snowmass white paper

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

first version → arXiv within 1 week

updates until the end of Snowmass study ~ August 2022

suggestions/contributions welcome!

vertex detector

Plan for radiation damage test of new FPCCD prototype sensors

Speaker: Yasuhiro Sugimoto (KEK)

Status of SOI based vertex detector and outer strip detector

Speaker: Miho Yamada (KEK)

TPC tracker

Simulation study for design optimization of GEM module

★ Speaker: Keita Yumino (KEK/Sokendai)

The spatial resolution result of the first beam test of a ILD-TPC end-plane readout module with a gating foil for the ILC

★ Speaker: Yumi Aoki (KEK/Sokendai)

Spatial resolution study using testbeam data

★ Speaker: Jurina Nakajima (KEK/Sokendai)

MDI, solenoid

On-site winding of ILD solenoid

Speaker: Yasuhiro Makida (KEK)

QD0 support

Speaker: Toshiaki Tauchi

★ “young” people

software

ILD MC production

Speaker: Ryo Yonamine (KEK)

Machine Learning reconstruction

Speaker: Taikan Suehara (Kyushu University)

ILD simulation model with Si-tracker

Speaker: Daniel Jeans

calorimetry

Study on timing resolution of APD sensors with test beam

Speaker: Taikan Suehara (Kyushu University)

★ **DESY test beam 2020 and analysis on low/high gain ADC**

Speaker: Shusaku Tsumura (Kyushu University)

★ **Performance study with Sc-ECAL prototype**

Speaker: Ryunosuke Masuda (University of Tokyo)

Study on stability of scintillator strip

Speakers: Tohru Takeshita (Shinshu University (JP)), Tohru Takeshita (De

★ **Study on SiPM saturation**

Speaker: Tatsuki Murata

I look forward to
interesting talks and
lively discussions!