



Report on ILD


Ties Behnke


09.05.2018

Today's Agenda








ILD group meeting

 Wednesday May 9, 2018, 1:00 PM → 2:00 PM Europe/Zurich

 Vidyo

Description Vidyo Connection

1:00 PM	→ 1:10 PM	Introduction Speaker: Ties Behnke	🕒 10m 
1:10 PM	→ 1:25 PM	News from the physics coordinator Speaker: Jenny List (Deutsches Elektronen-Synchrotron (DE))	🕒 15m 
1:25 PM	→ 1:40 PM	News from the technical coordinator Speaker: Karsten Buesser (DESY)  180509_ILD_TC_Re...	🕒 15m 
1:40 PM	→ 1:55 PM	Status of preparations for the production Speakers: Akiya Miyamoto, Frank Gaede	🕒 15m 

Fukuoka Meeting



Current plans:

Note: some of the speakers are not yet confirmed

13:00	Opening of the meeting	13:00 - 13:15
	Status of technical work on ILD	<i>Claude Vallee et al.</i> 13:15 - 13:45
	State of large scale production	<i>Frank Gaede</i> 13:45 - 14:15
14:00	The ILD Design Report: Status and Structure	14:15 - 14:35
	Costing ILD	<i>Henri Videau</i> 14:35 - 15:05
15:00	Coffee break	15:30 - 16:00
16:00	Status of physics analyses in ILD	<i>Keisuke Fujii</i> 16:00 - 16:20
	Status of background simulations in ILD (tbc)	<i>Daniel Jeans</i> 16:20 - 16:40

Strategy update



- Input for the European Strategy:
 - Document by LCC on the state of the ILC machine
 - Document on the science case for a lepton collider (Juan Fuster)
 - Document by ILD on the ILD detector and its community
- Input from individual countries and communities for the Strategy
 - General deadline for contributions: Dec 18. 2018

German Community



- Series of workshops since 2016 to understand the science and readiness of major projects in particle physics
 - Lepton colliders
 - Hadron colliders
 - Neutrino experiments
 - non-collider experiments
- Summary workshop May 3, 4 in Bonn
- Organised by KET (elected body of particle physicists in Germany), and equivalent bodies from Nuclear physics and astroparticle physics

Draft Statements from the WS

Disclaimer: this is not (yet) an official statement, but reflects my personal interpretation of the results of the workshop.

The full exploitation of the LHC and its upgrade are essential and will be pursued with full support and vigour.

The same is true for the BELLEII program, where Germany plays a strong role.

Future projects



1. Lepton collisions at high energies are the highest priority
 - General statement on the importance of lepton collisions
 - Support for the Japanese proposal to start with a 250 GeV ILC in Japan
 - The community stresses that any project pursued will have the potential to eventually reach higher energies, to study top and – ultimately– Higgs self coupling.
2. Hadron colliders: there is no need to immediately decide on this. R&D to enable a future hadron collider should be vigorously pursued (in particular, high field magnet developments)
3. Ep collisions are an interesting option, but need further studies, to appreciate their potential
4. Flavour physics should be continued also at the late HL-LHC phase, as well as future hadron colliders
5. Non collider / neutrino projects: a series of recommendations, which I will not discuss here

Preparing the next steps for ILD



- Draft structure of the ILD document (now named Ild Design Report, IDR) are being circulated in the ET
- Editors for the main sections are being defined
- Infrastructure to allow editing of the document is being setup

At the Fukuoka meeting: give the official “kick-off” for the writing and assembling of the document.

ILD session will have a strong focus on the IDR.