



Report from Physics Coordinators

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on behalf of the Physics WG
September 28, 2022

IDT Phys/Det WG (WG3)

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

Last WG3 Meeting yesterday on September 27

- ***IDT EB report from Jenny***
 - ***ILC Technology Network: KEK/ILC-Japan/IDT-EB delegation visited SLAC and FNAL***
 - ***LCWS2023: mid May (probably week of May 15) at SLAC***
- ***IDT WG3 report by Jenny***
 - ***Refilling some currently vacant positions, deputies, tech conveners, etc.***
- ***Subgroup reports***
 - ***Physics: C3 WS on Oct. 13-14 at SLAC (det. session on 14)***

<https://indico.slac.stanford.edu/event/7315/overview>

White paper v3 in a couple of weeks

Physics Potential & Opportunity Group

- Schedule for regular open meetings:

Feb. 10/11: <https://agenda.linearcollider.org/event/9354/>

Feb. 28, Mar. 1, 3: Mini-WS on BSM at ILC

<https://agenda.linearcollider.org/event/9575/>

Mar. 10, Snowmass, BSM mini-WS, QCD, Green ILC

<https://agenda.linearcollider.org/event/9355/>

Apr. 14: mb, BSM, ALR

<https://agenda.linearcollider.org/event/9356/>

May 12: Mw

<https://agenda.linearcollider.org/event/9357/>

Jun. 9: flavor, dark photon, SMEFT

<https://agenda.linearcollider.org/event/9680/>

Sep. 15: dark photon, mass reach of Higgs coupling meas., $H \rightarrow \text{inv.}$

<https://agenda.linearcollider.org/event/9681/>

Oct. 12/13: HHH, y_{top} , LL dark photon

- Snowmass meetings;

EF workshop Aug. 30 - Sep.3

<https://indico.fnal.gov/event/49756/>

Snowmass Day (all frontiers) Sep. 24

<https://indico.fnal.gov/event/50538/>

EF workshop Mar. 28 - Apr.1

<https://indico.fnal.gov/event/52465/>

Snowmass Community Summer Study

<http://seattlesnowmass2021.net>

Snowmass Agora

Dec. 15: Linear e+e- Colliders

<https://indico.fnal.gov/event/52161/timetable/>

Jan. 19: Circular e+e- Colliders

<https://indico.fnal.gov/event/52534/timetable/>

Feb. 16: 2022: Muon Colliders

<https://indico.fnal.gov/event/53010/timetable/>

Software & Computing Group

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

- July 21, Introduction to iLCSoft: <https://agenda.linearcollider.org/event/9272/>
- August 18, LCFIPlus: <https://agenda.linearcollider.org/event/9318/>
- October 13, SGV fast simulation: <https://agenda.linearcollider.org/event/9394/>
- May 18, MarlinKinFit by Jenny: <https://agenda.linearcollider.org/event/9687/>

ECFA Higgs Factory WG meetings

- April 8, physics with light quarks: <https://indico.cern.ch/event/1138771/>
- April 20-22, First workshop of the Higgs/Top/EWK subgroup of WG1: <https://indico.cern.ch/event/1132480/>
- May 4-5, First topical meeting on Reconstruction (WG2 activity): <https://indico.cern.ch/event/1124095/>
- May 6, Higgs self-coupling (including LHC status+prospects): <https://indico.cern.ch/event/114376/>
- **Oct. 5-7, 1st ECFA WS on e+e- Higgs/EW/Top Factories: deadline June 30**
<https://indico.desy.de/event/33640/>

All workshops and seminars of the ECFA Higgs Factory initiative (WG1+WG2) can be found at any time under the Indico category: <https://indico.cern.ch/category/14055/>

ILD Physics WG Activities

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

Today (September 28)

- ***CP-violating effects in pure bosonic interactions by Yong Du***
- ***ID of charged leptons in jets by Leonhard Reichenbach***
- ***ErrorFlow: jet error estimate for HF by Yasser***
- ***PID for HF by Uli***
- ***$H \rightarrow Z\gamma$ at 250 GeV ILC by Evgeny***

Proposed S&A meeting schedule

<i>Sep 28:</i>	<i>Filip</i>
Oct 12:	Frank
Oct 26:	Daniel
Nov 9:	KF

S&A meeting usually every two weeks on 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 interleaved with S&A meetings at 14:30 CERN

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

Stay safe!