



Report from Physics Coordinators

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on behalf of the Physics WG
January 18, 2023

IDT Phys/Det WG (WG3)

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

The latest WG3 Meeting: 15 hours ago

- *General news*
 - *Acc. R&D budget doubled in the JFY2023 budget plan of the cabinet.*
 - *Discussions on LCWS 2023 (May 15-19) plenary talks*
- *Subgroup reports*
 - *Physics: last open meeting on Jan.12/13 (Higgs self-coupling),
next on Feb.10/11*
 - *Detector: timing detector WS, Feb. 24 or Mar. 3*
 - *...*

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. 13: EFT, y_{top} , LL dark photon

<https://agenda.linearcollider.org/event/9682/>

Nov. 17: Beam pol., DM, scalar med. CPV

<https://agenda.linearcollider.org/event/9683/>

Dec. 15/16: LLP, photon splitting, Higgs CP

<https://agenda.linearcollider.org/event/9684/>

Jan. 12: focus on Higgs self-coupling

<https://agenda.linearcollider.org/event/9881/>

Feb. 10: ?

- 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 (January 18)

- ***AFB studies at 500 GeV sample: LCFl+ flavor tag optimization by Jesus***
- ***Overlay reduction in the searches for displaced vertices by Jan***

Proposed S&A meeting schedule

<i>Jan 18:</i>	<i>KF</i>
Feb 1:	Filip
Feb 15:	Frank
Mar 1:	Daniel

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 14:00 CERN

Conveners' ML:

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

Stay safe!