

Report from Physics Coordinators

Keisuke Fujii on behalf of the Physics WG April 8, 2020

ILD Physics WG Activities

Benchmark Analyses

 → Extra Higgs: converging content-wise tt/bb: new draft prepared for next iteration
H→ invisible: circulation period ended
H→ bb/cc/gg: Frank's comments to be addressed

Others: done

→ Keep communicating with reviewers and finalize analysis notes if you haven't. Don't forget to update GitHub and Confluence pages:

https://confluence.desy.de/pages/viewpage.action?pageId=89671192

Today (March 25)

- → Shogo on kinematic fit
- $\rightarrow Uli \text{ on } H \rightarrow WW^* \rightarrow udcs$

Benchmark Analyses

- → Extra Higgs: new version being prepared tt/bb: new draft prepared for next iteration
 H→ invisible: done!
 H→ bb/cc/gg: Frank's comments addressed, waiting for his answer
 Others: done
- → Keep communicating with reviewers and finalize analysis notes if you haven't. Don't forget to update GitHub and Confluence pages:

https://confluence.desy.de/pages/viewpage.action?pageId=89671192

Today (March 25)

→ Validation of 250 GeV test samples: Uli on dE/dx, Daniel on photon calibration, Yasser on track refitting, Remi on muon

Conferences

ICHEP 2020 (physics)

From ILD

- Heavy quark production in high energy electron positron collisions
- Improving Electroweak Precision Observables Including m_w, Γ_wA_w and TGCs with the ILD Detector
- ILC as a SUSY discovery and precision instrument

From LCC Physics WG

- Expectations for Precision Tests of the Standard Model at the ILC
- Polarized Beams at Future e+e- Colliders
- Precision Higgs physics at the ILC, and its impact on detector design

All accepted as oral presentations!

Papers

Update on ILD Papers

•

- Higgsinos : accepted for publication in PRD! Proofs checked and comments fed back to the publisher
- $H \rightarrow \mu + \mu$: Shin-ichi : 2nd draft submitted to ILD referees (Filip & Ivanka)
- WIMPs : Moritz : accepted for publication in PRD!

Proposed S&A meeting schedule

Apr.	8 :	Jenny
Apr.	22:	Frank (TBC)
May	6: ?	Daniel (TBC) (so called Golden Week in Japan)
May.	20:?	KF (holiday-heavy week in Europe)

Biweekly S&A meeting on Wednesday at 14:00 CERN time.

Physics conveners' meeting every two weeks on Wednesday at 14:00 CERN time interleaved with S&A meetings.

Conveners' ML:

. . .

ild-physics-conveners@desy.de

Use this mailing list to send your talk request.

