

# ILD notes

ILD notes are not meant for publication, but are publicly available (public notes) or internally available (internal notes) through the ILD confluence.

## ILD public notes

- [ILD-PHYS-PUB-2019-011](#), May 2020, "ILD Benchmark: Search for Extra Scalars Produced in Association with a Z boson at  $s = 500$  GeV", Yan Wang, Jenny List, Mikael Berggren (reviewed by Kiyotomo Kawagoe and Junping Tian)
  - [ILD-PHYS-PUB-2019-010](#), October 2019, "ILD benchmark analysis on WIMP", Ryo Yonamine (reviewed by Filip Zarnecki and Moritz Habermehl)
  - [ILD-PHYS-PUB-2019-009](#) cancelled
  - [ILD-PHYS-PUB-2019-008](#) in preparation, "Hadronic branching ratios of the Higgs:  $Hbb/cc/gg$ ", Masakazu Kurata, Ryo Yonamine (reviewed by Hiroaki Ono, Frank Simon)
  - [ILD-PHYS-PUB-2019-007](#), May 2020, "Bottom and top reconstruction as benchmarks for ILD", M.S. Amjad, A. Irlles, V. Lohezic, Y. Okugawa, R. Pöschl, F. Richard, H. Yamamoto, R. Yonamine (reviewed by Marcel Vos)
  - [ILD-PHYS-PUB-2019-006](#), February 2020, "Photon Energy Calibration using  $e+e-$  gamma Z at the ILC", Takahiro Mizuno (reviewed by Mathew Wing)
  - [ILD-PHYS-PUB-2019-005](#), August 2019, "Note to the Quartic Gauge Couplings ILD Benchmark", Jakob Beyer, Jenny List (reviewed by Taikan Suehara)
  - [ILD-PHYS-PUB-2019-004](#), October 2019, "ILD benchmark: a study of  $e- e+ \tau- \tau+$  at 500 GeV", Daniel Jeans and Keita Yumino (reviewed by Mikael Berggren)
  - [ILD-PHYS-PUB-2019-003](#), March 2020, "Invisible Higgs Decay at  $E_{cm}=500$  GeV", Yu Kato (reviewed by Marcel Vos)
  - [ILD-PHYS-PUB-2019-002](#), July 2019, "ILD Benchmark Analysis:  $H\mu+ \mu-$  at 500 GeV", Shin-ichi Kawada (reviewed by Ivanka Bozovic and Filip Zarnecki)
  - [ILD-PHYS-PUB-2019-001](#), February 2020, "A new method for measuring the Higgs mass at the ILC", Junping Tian (reviewed by Frank Simon)
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- [ILD-TECH-PUB-2019-001](#), 24 March 2020, "Machine-related backgrounds in ILD", Daniel Jeans and Akiya Miyamoto (reviewed by Claude Valee)
  - [ILD-TECH-PUB-2017-001](#), 12 June 2017, "Impact of Beam-Gas Interactions of the IP region of ILD", Robert Karl and Jenny List (reviewed by Henri Videau)

## ILD Internal notes

- [ILD-TECH-INT-2020-001](#), 04 February 2020, "Recosting of the ILD solenoid", Christophe Berriaud (protected)