

status of publications

topical

- T.Barklow, et al, “Model-Independent Determination of the Triple Higgs Coupling at e^+e^- Colliders”, arXiv: 1708.09079
- T.Barklow, et al, “Improved Formalism for Precision Higgs Coupling Fits”, arXiv: 1708.08912

ILD-physics

- R.Karl, et al, “Prospects for Electroweak Precision Measurements and Triple Gauge Couplings at a Staged ILC”, ILDPHY-PROC-2017-006
- T.Ogawa, et al, “Sensitivity to anomalous ZZH couplings at the ILC”, ILDPHYS-PROC-2017-004

status of publications

ongoing journal papers:

- D.Jeans, Higgs CP using $e+e- \rightarrow Zh, h \rightarrow \tau\tau$ @ $E_{cm}=250$ GeV; draft available, ILD internal review 2016 summer; updated analysis is almost done, in the step of making final plots
- C.Duerig, M.Kurata, J.Tian, et al, Higgs self-coupling using $HH \rightarrow bbbb/bbWW^*$ @ $E_{cm}=500/1000$ GeV; 0th version since early this year; double counting check still not finished
- T.Ogawa, et al, anomalous ZZH coupling @ $E_{cm}=250/500$ GeV; draft going to be available soon; ILD internal referee (Jenny, Ivanka)

ongoing analyses

- Tomohisa Ogawa (Sokendai & KEK), PhD student, “anomalous hVV couplings”, 100% of time, to finish thesis by mid of 2018
- Yumi Aoki (Sokendai & KEK), Master student, “h γ Z coupling”, 50% of time, not included in master thesis, to finish this study by mid of 2018
- Daniel Jeans (KEK), “h \rightarrow tau tau”, currently focusing on paper
- Masakazu Kurata (KEK), “hh \rightarrow bbWW*”, currently working on paper together with Claude, Junping, etc.
- **) Yu Kato (U. Tokyo), Master student, “h \rightarrow invisible”, 100% of time, to finish thesis by end of this year
- Kazuki Fujii (U. Tokyo), Master student, “h \rightarrow gamma Z”, 30% of time, to finish thesis by May of 2018
- Junping Tian (U. Tokyo), “Higgs mass”, 10% of time
- **Aliakbar Ebrahimi (DESY), “Higgs mass”, 20% of time**
- Shin-ichi Kawada (DESY), “h \rightarrow mu mu”, 100% of time
- Jakob Beyer (DESY), Master student, “quartic gauge couplings”, 100% of time, to finish thesis by Oct. 2018
- Mila Pandurovic (U. Belgrade), “h \rightarrow WW*”
- Graham Wilson (Kansas U.), “Higgs mass”
- **Vladimir Bocharnikov (Moscow Engineering Physics Institute), PhD student, “vvh, h \rightarrow tau tau”**

person power for testing new MC

- Y.Kato, uds samples, $h \rightarrow$ invisible; jet energy resolution
- Y.Aoki, et al, 2f samples @ 250 GeV; photon, JER, in $e^+e^- \rightarrow$ gamma Z
- J.Beyer, $vvqqqq$ @ 1 TeV; JET, di-jet mass, W/Z separation
- D.Jeans, $h \rightarrow \tau \tau$ @ 250 GeV; τ reconstruction

DST format request

- not really
- maybe useful to add TruthJet collection

status of HLR tools

- π^0 , K_S \longrightarrow Graham
- dE/dx , PID \longrightarrow Masakazu
- tau \longrightarrow Daniel, Taikan
- Isolated lepton \longrightarrow Junping
- Isolated photon \longrightarrow Valencia group? Moritz, Yumi, et al
- flavor tagging \longrightarrow Masakazu, Ryo, et al
- $\gamma\gamma$ overlay removal \longrightarrow Swathi
- jet algorithm \longrightarrow Marcel, Junping, Masakazu, et al