

Benchmark Processes for Detector Optimization

- ▶ recoil mass study using $Z \rightarrow ll$: check performance of momentum resolution. (S. Watanuki?)
- ▶ HWW coupling study using $\nu\nu H \rightarrow \nu\nu(bb)$ and $ZH \rightarrow (ll)(bb)$: check performance of jet-energy resolution and flavor tagging. (H. Ono? J. Tian? T. Suehara?)
- ▶ total width study using $\nu\nu H \rightarrow \nu\nu(WW^*)$ and $\nu\nu H \rightarrow \nu\nu(ZZ^*)$: check performance of jet-energy resolution and W/Z separation. (H. Ono? J. Tian? **any volunteer?**)
- ▶ electroweak anomalous coupling study using $e^+e^- \rightarrow evW \rightarrow evqq$ (WWZ coupling): check performance of forward lepton tagging and jet-energy resolution. (**any volunteer?**)
- ▶ τ reconstruction using $H \rightarrow \tau\tau$: check performance of PFA? (S. Kawada?)
- ▶ photon reconstruction using $H \rightarrow \gamma\gamma$: check ECAL resolution? (Tino?)
- ▶ + one more complicated analysis, top-Yukawa or top-pair threshold? to check vertex charge, overall performance? (T. Horiguchi? Y. Sudo?)

very preliminary, open for anyone who is interested in the detector optimization