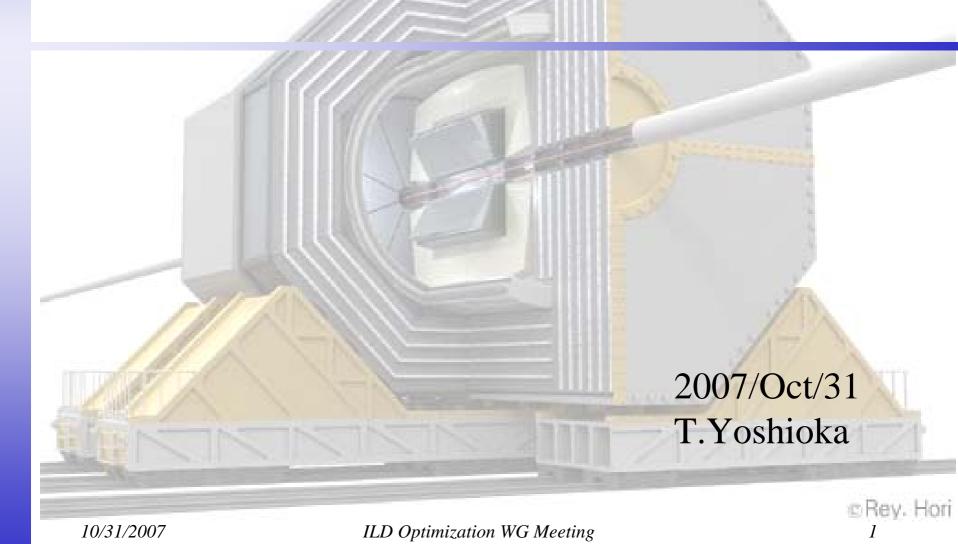
GLD Physics Analyses



Current Manpower

- Tohoku Univ. : 1 staff + 1 student
 - → will work on physics study
- Niigata : 1 staff
 - → currently working on ZH study w/ Satellites.
- Shinshu Univ. : 1 staff + 1 student
 - → will work on physics study. They already have an experience to run MarlinReco.
- KEK: 2 staff
 - → software issues.
- Tokyo Univ.: 1 staff
- Kobe Univ.: 1 staff
 - → currently working on clustering method for strip calorimeter.
- You are encouraged to participate in the WG.

On-going Physics Studies

- These studies are originally not for the optimization study so far, but would be useful for the future optimization study. Detail of each study will be reported at next optimization meeting.
 - ZH study w/ Jupiter/Satellites
 - \rightarrow ZH \rightarrow vvH w/ different Higgs mass.
 - ZHH study w/ QuickSim
 - → Development of analysis code is in progress.
 - ttH study w/ QuickSim
 - → Development of analysis code is in progress.

Benchmark Processes

Tentative list of the benchmark processes

- Zh \rightarrow 11X, mh = 120 GeV, Ecm to be discussed.
 - → Test of tracker momentum resolution
- Zh; h \rightarrow cc, tau tau, WW*, mh = 120 GeV, Ecm = 350GeV
 - → Test of heavy flavor tagging (vertex performance)
- selectron pair at Point 1, Ecm = 500GeV
 - → Test of tracker momentum resolution
- chargino pair/neutralino pair at Point 5, Ecm = 500GeV
 - → Test of Particle Flow (WW/ZZ separation)
- Multi Jets process (Zhh, tth)
- * If you have a particular physics channel, please let us know by e-mail.