2014: progressed very well

Physics & Analysis

- input to ILC physics case for MEXT review: all studies
- contribute to ILC staging scenario optimisation: i.e. recoil mass at 350 GeV; extrapolation to 350 and 550 GeV; global fit
- update analyses with mH=125 GeV: BR(H—>bb,cc,gg); BR(H—>ττ); BR(H—>γγ,μμ); BR(H—>inv.); top-Yukawa; self-coupling
- improve analyses: leptonic & hadronic recoil mass at 250 GeV
- start new analyses: heavy/charged Higgs search; single W process; anomalous HVV coupling; Higgs CP study

Software & Tool

- initiate study of ILC computing
- prepare ILCDirac for mass production
- develop core algorithm: dEdx; attach pi0 to improve flavor tag; matrix element method
- various tools for analysis: samples data base; source code browser by emacs; etc.

Detector Opt.

- physics performance: impact of TPC radius on recoil mass; impact of ECAL resolution on H—>γγ; impact of JER on Higgs invisible decay
- impact of ECAL inner radius on pi0 reconstruction

Thank everyone for the hard working!



san yang kai tai

- in this year we will continue and finalize ongoing studies, document and publish them; focus more carefully on systematics; continue physics performance study for detector optimization; new ideas, new algorithms
- get prepared for any surprise coming out from LHC Run 2
- o best wish to political development of ILC project

