## Study of Higgs Selfcouplings at ILC

J. Tian (Tsinghua U.)

Y. Takubo (Tohuko U.)

K. Fujii (KEK)

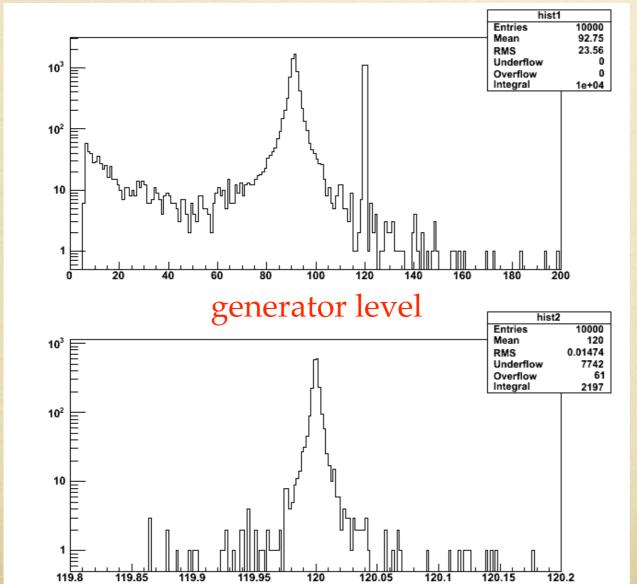
Y. Gao (Tsinghua U.)

## status

- the problem of mother-daughter relation in stdhep file was fixed and another bug was found and fixed (some decay modes of Higgs can cause error in JSFWriteStdHep). See Miyamoto-san's talk.
- 280K llbb events are full simulated, which will be used for neural-net in llHH analysis.

## another way for generating llbbH events

- the LOI samples already include the stdhep for llbbH, however it contains the contribution from llHH.
- Suehara-san suggested we can separate the llHH event by looking at the invariant mass of the two b quark.



does the other region contain the contribution from the interference between llHH and llbbH? at least we can use it for comparision.

from Tanabe-san

## next step

- generate full simulated ZZH sample and used for llHH and vvHH analyses.
- check the statistical dependencies.