

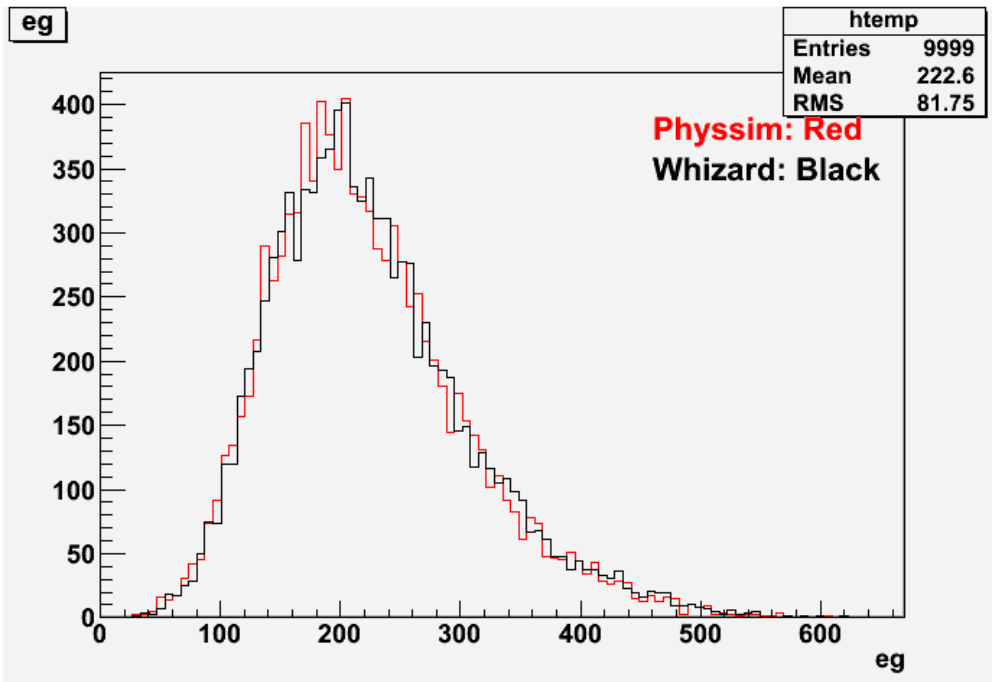
A brief report of tth

A.Miyamoto, 16-June-2011

- Physsim update
 - Tauola : modified to use DESY_TAUOLA

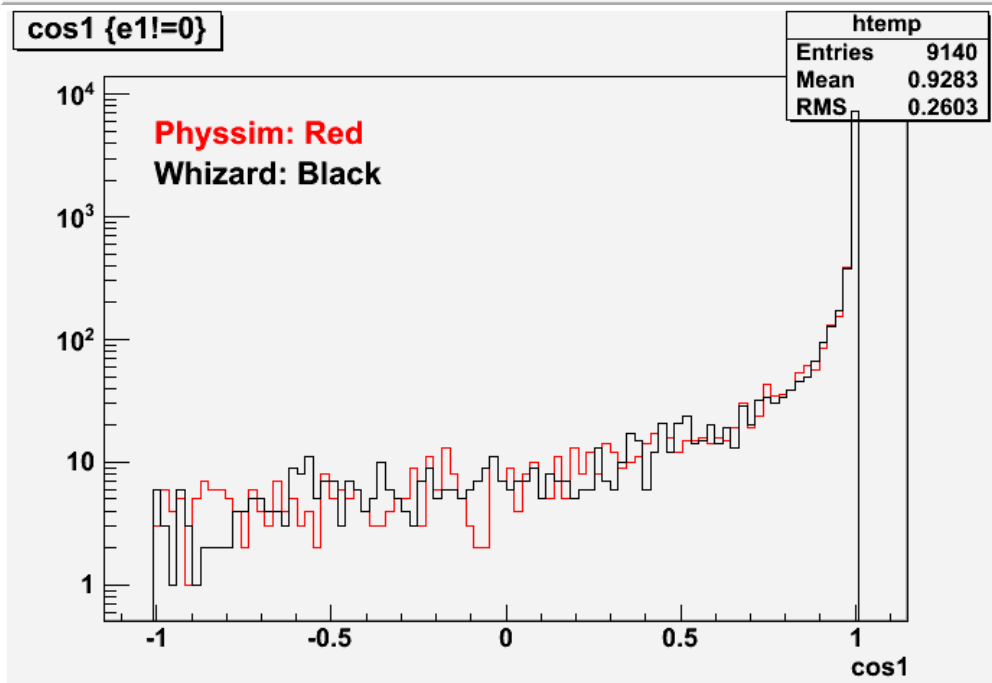
 - ISR function: Modified to use same ISR function as Whizard.
Now Physsim output include ISR gammas.

 - Total cross section by new Physsim
 - Physsim ttH old ISR : 6.646 +- 0.0033 fb
 - Physsim ttH new ISR : 6.1055 +- 0.003 fb
 - Whizard tree : 6.01409 +- 0.00983 fb



Whizard: bbenyxh_o
Physsim: ttH->bbneyxh

Total g energy (inc.) ISR γ



Angular distribution of
forward-going ISR γ

Remaining problems

- Fix memory leak.
 - After Physsim update, memory leak starts.
Number of events are limited at ~15000.
Previously no problem to generate 50k
- Check fragmentation.
 - Number of γ , charged tracks, neutral hadrons are not consistent between Whizard and Physsim, though sum energy is consistent.

Plan:

Further tests of samples. check distributions

Produce test samples as soon as possible after fixing the problems