Status of Top studies

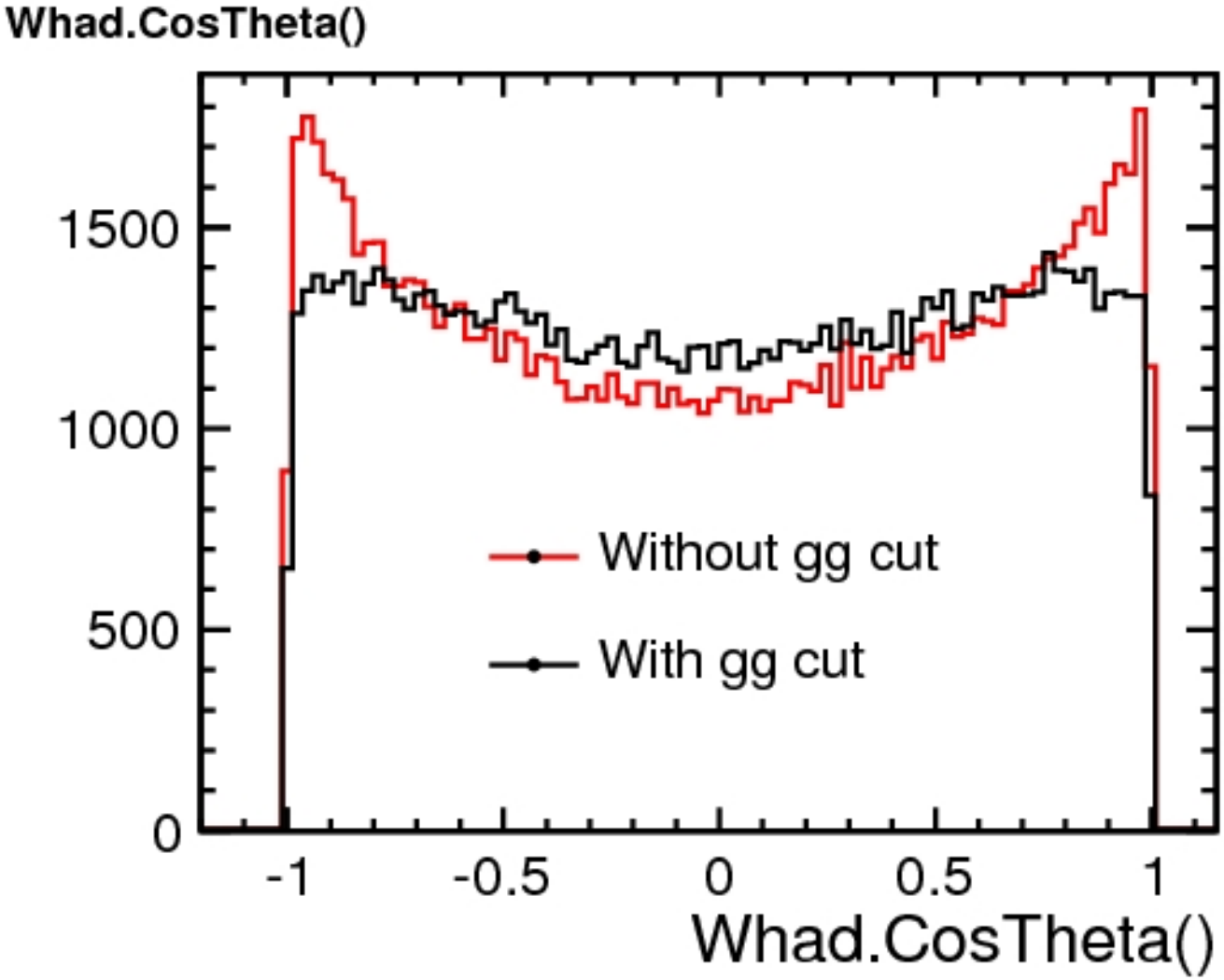
Jérémy ROUËNÉ

Laboratoire de l'Accélérateur Linéaire, Orsay

March 12, 2013

Outline

Effect of my cut on W hadronic



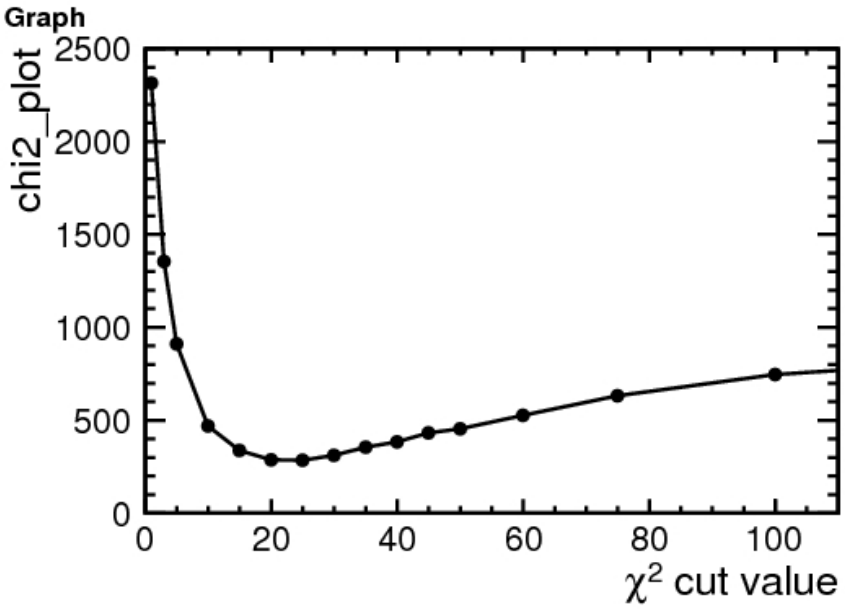
Discussion

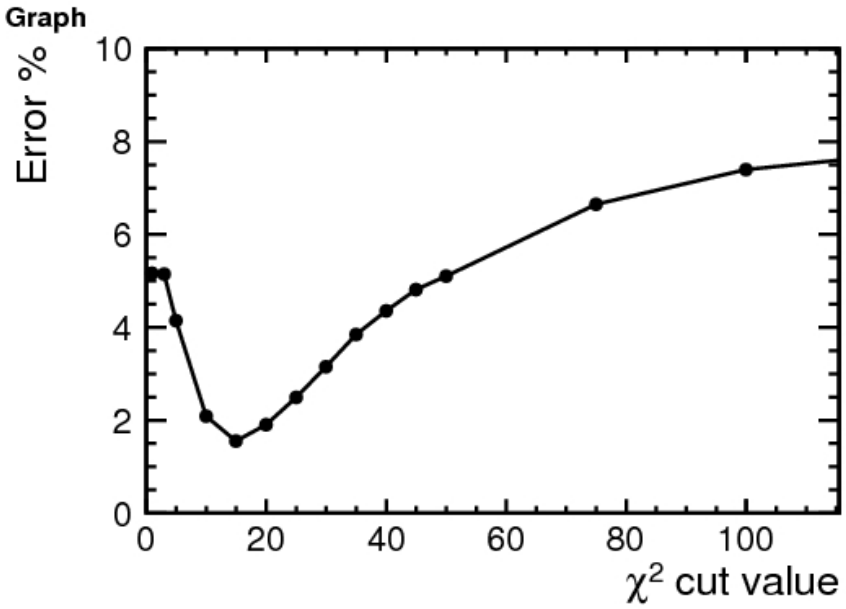
Why using a new variable?

1. Using AFB to choose the χ^2 is probably not the best solution.
2. Idea: try to base the choice of the χ^2 cut value on the correspondence between the MC plot and the Reconstructed one.

1. For that we are using a χ^2 test between the two plots.

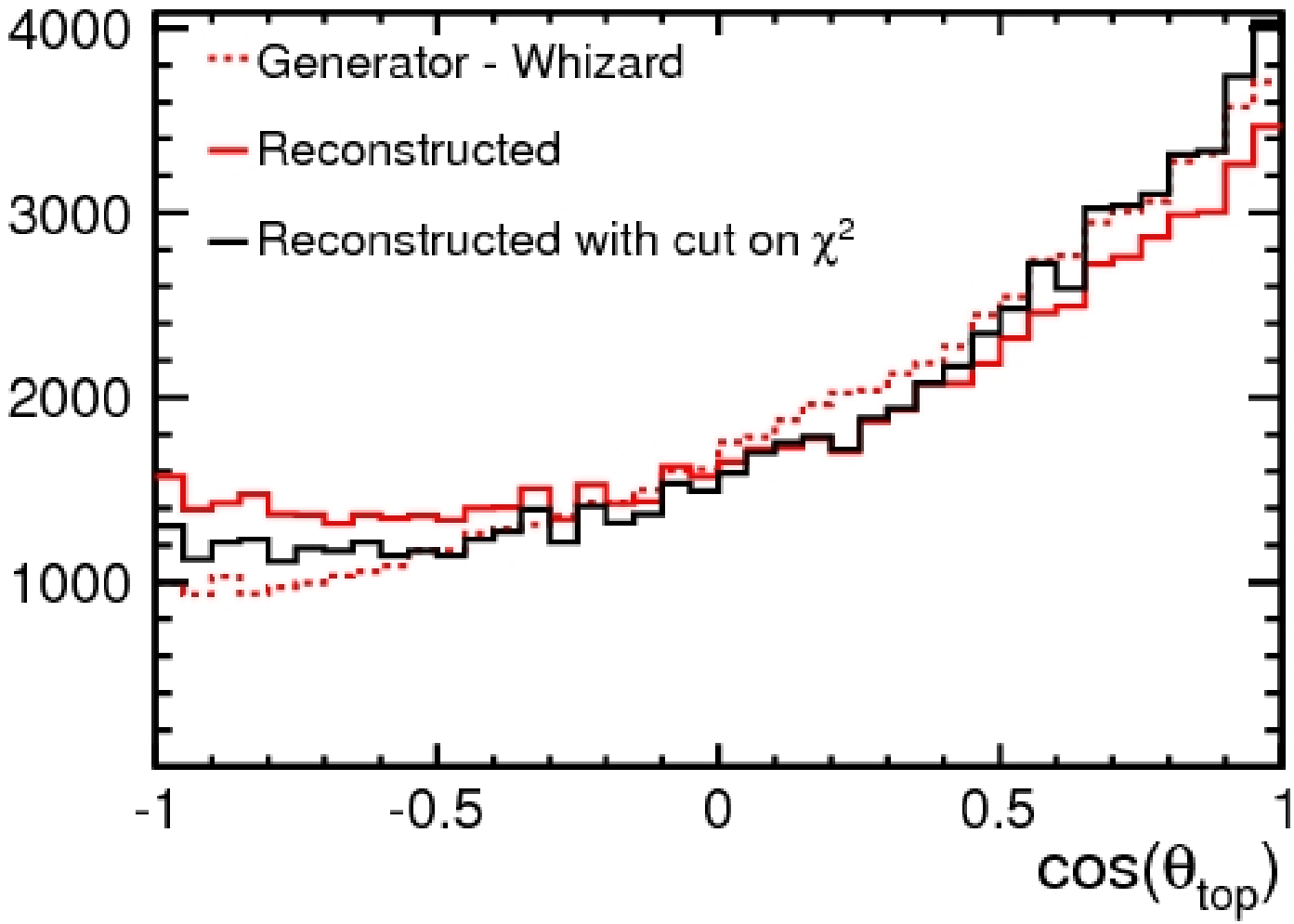
Comparison





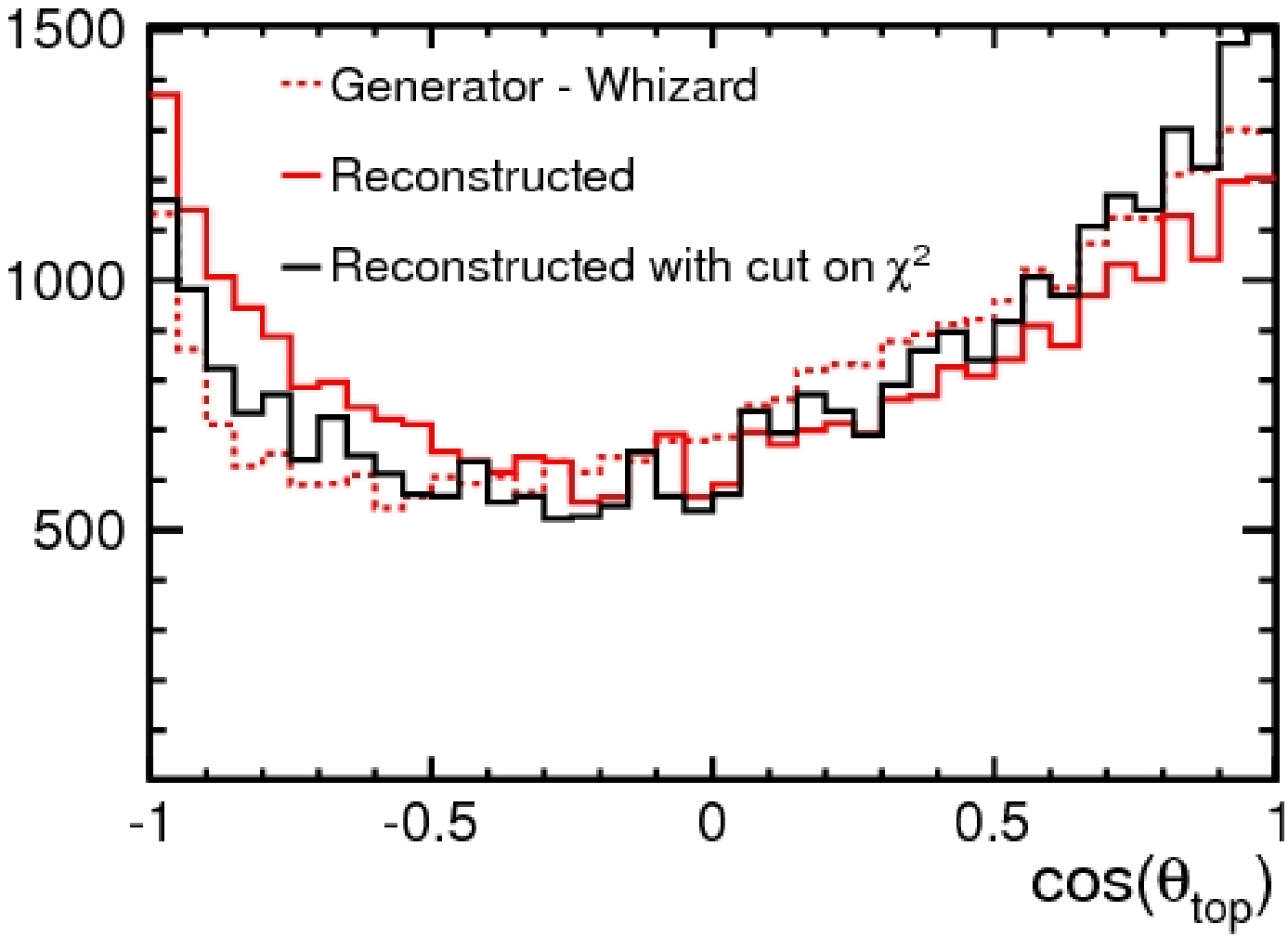
The χ^2 test gives a more flat result.

Results with a χ^2 cut of 25



The result is not so nice because of the $\gamma\gamma$ background.

A_{FB} for not $t\bar{t}$ events



As expected the asymmetry is inverse for the none $t\bar{t}$ events.

Conclusion

1. Not many time to work on the top with the test beam.
2. The first results with the χ^2 test seems good, but need to be tested on a pure sample.
3. To be continued.