



## LBL-group meeting

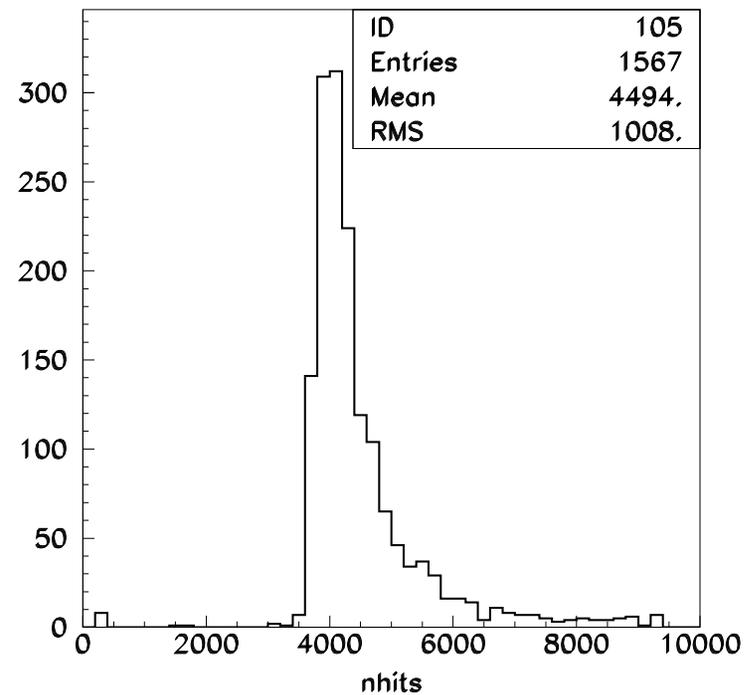
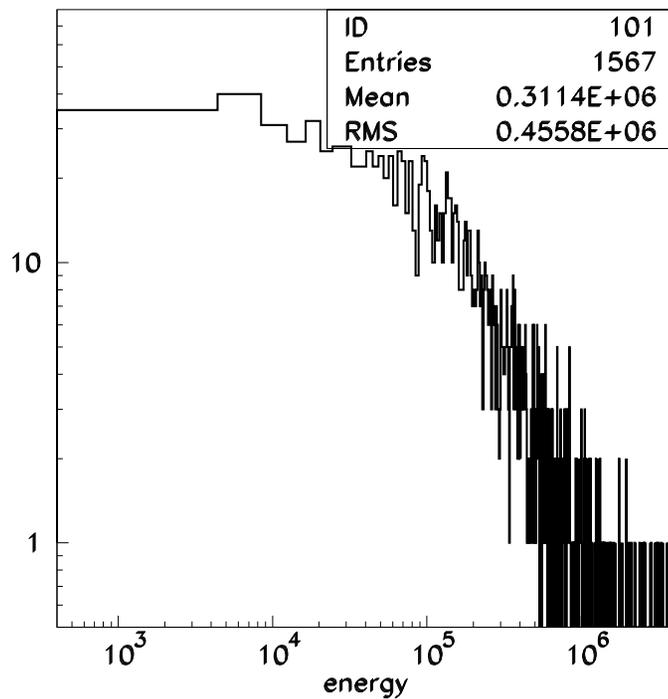
[neutrino.lbl.gov/~snoman/currat/talks/](http://neutrino.lbl.gov/~snoman/currat/talks/)

**Charles Currat**  
LBNL

**January 13, 2004**

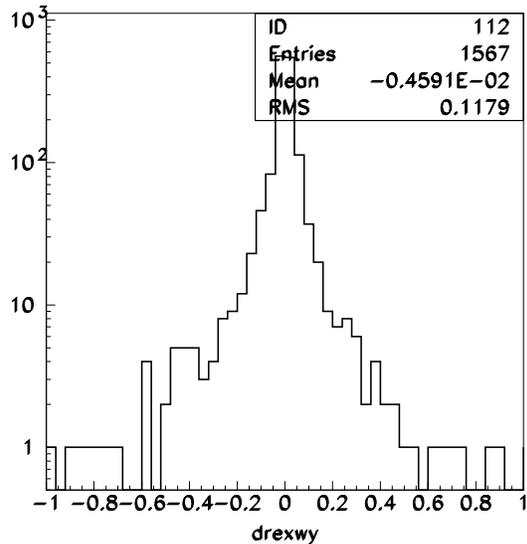
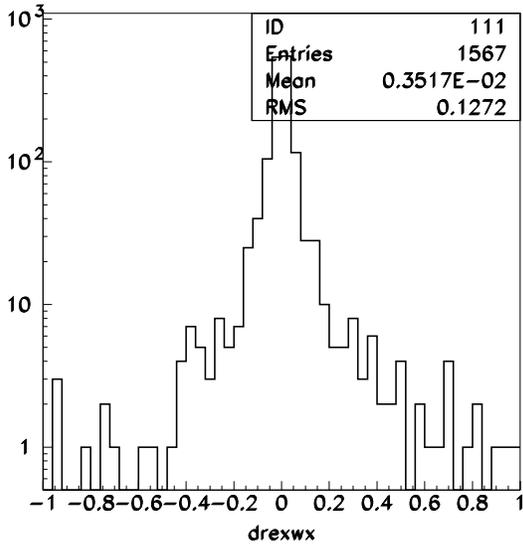
- ◆ First look on MC muons in v.4\_0286

- ❖ Found stable running conditions for generating MC muons in v.4\_0286 by disabling EGS4 data structure logging.
- ❖ Setup machinery on `pdsf` for massive generation. Count 7–8h/100 events. Output is light.
- ❖ Generated 1600 events: 17 fatal geometry errors, 11 store full errors

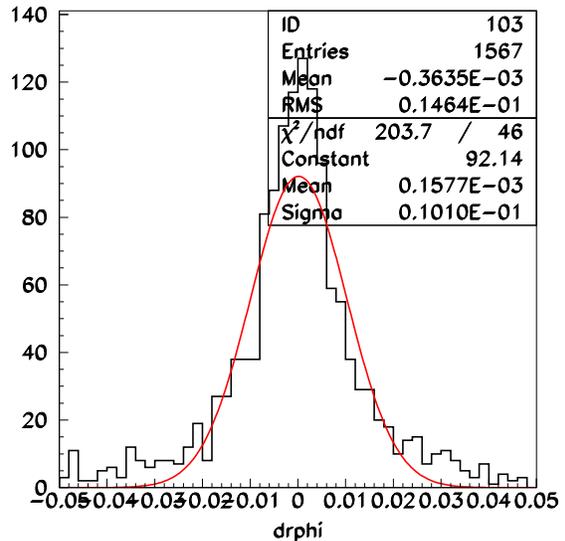
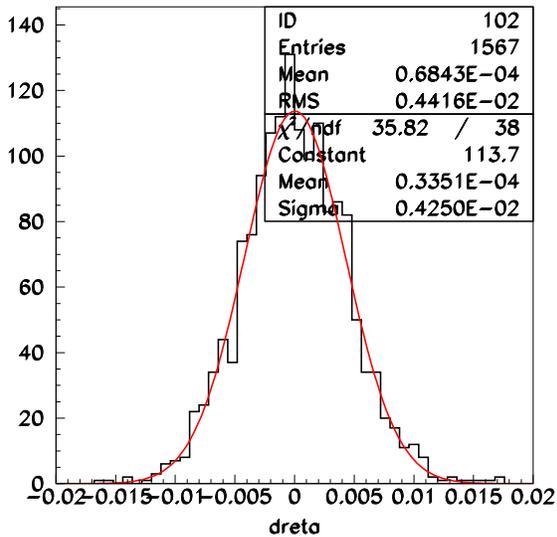




## Exit wound: (MC-fit)/MC



## Direction: (MC-fit)/MC

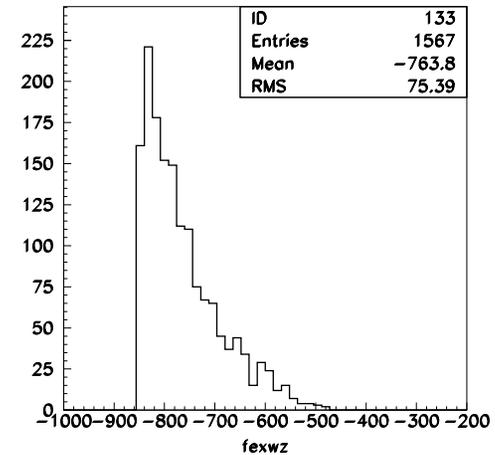
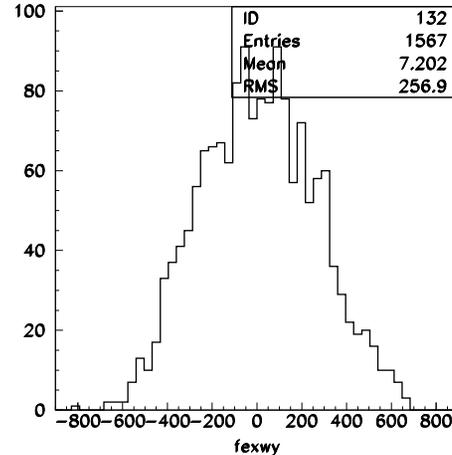
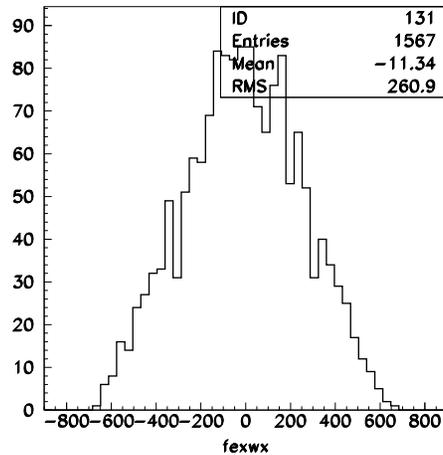
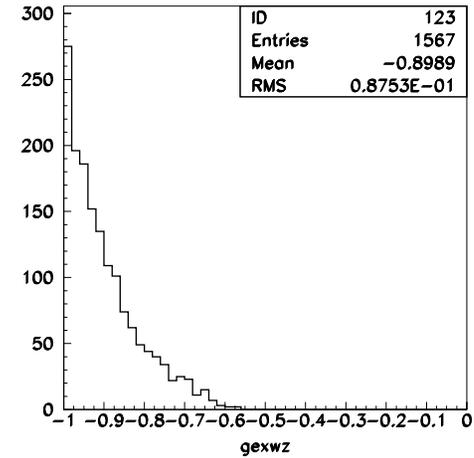
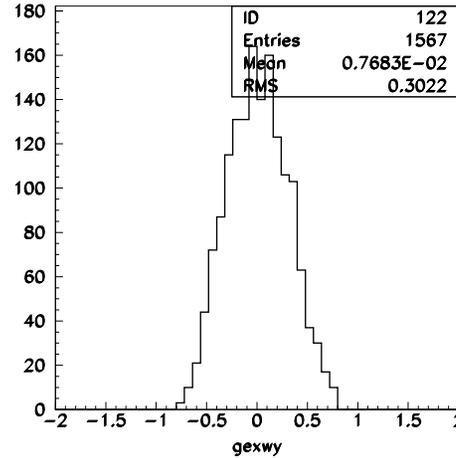
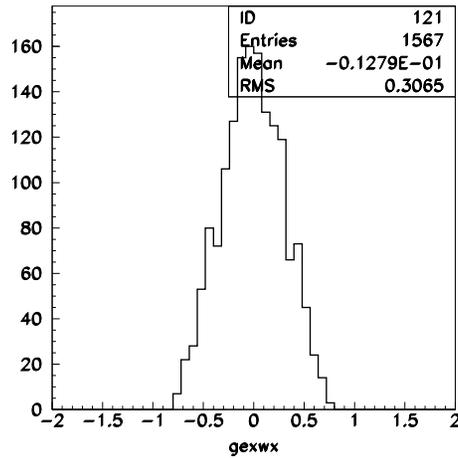


👉 Error on direction should be around  $5^\circ$  (0.1 rad)



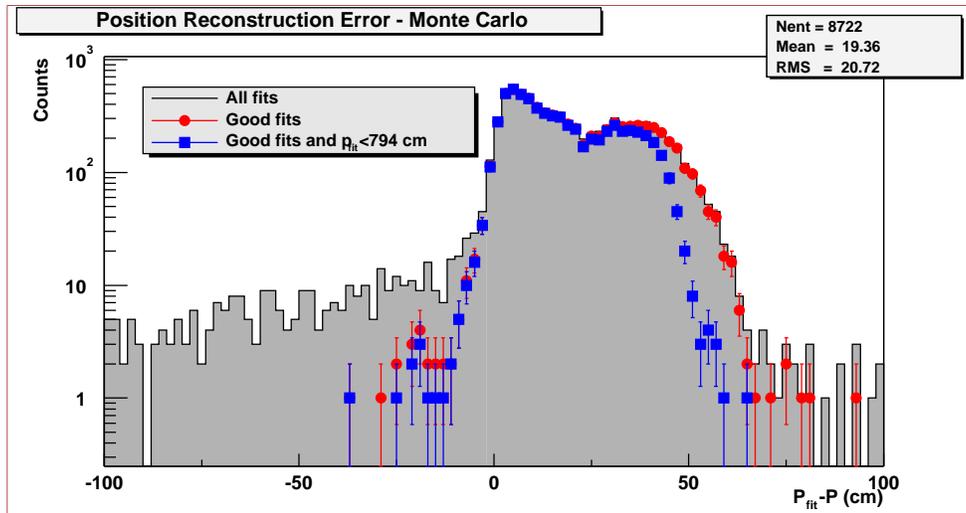
# About settings

## Entrance and exit MC positions [cm]

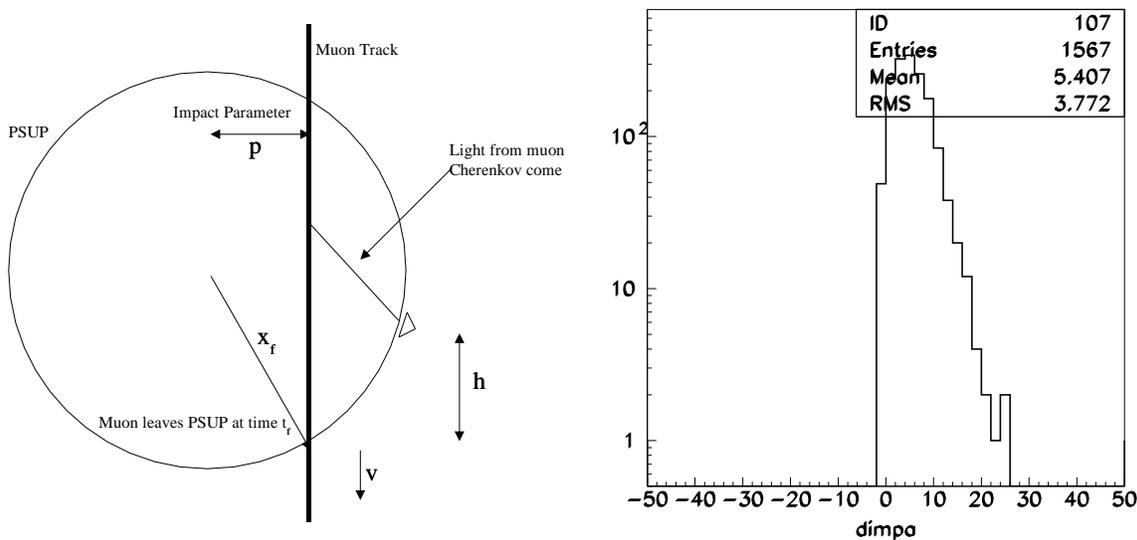


Exit extrapolated to the PSUP. Settings for initial positions `$mc_position` `$pos_cosmic` not appropriate.

From N. Tagg's thesis, first muon analysis



Current MC with default settings for cosmics



👉 Looks like the  $\mu$ -fitter is (still) working and presumably with the same performance. Some more tweaking needed at the generation level (quick) though.