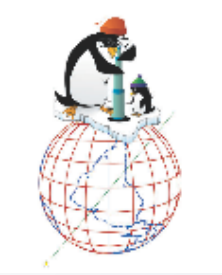


OM Sensitivity and Misreconstructed Muons: Ridiculously Preliminary Results

John Kelley

December 5, 2005

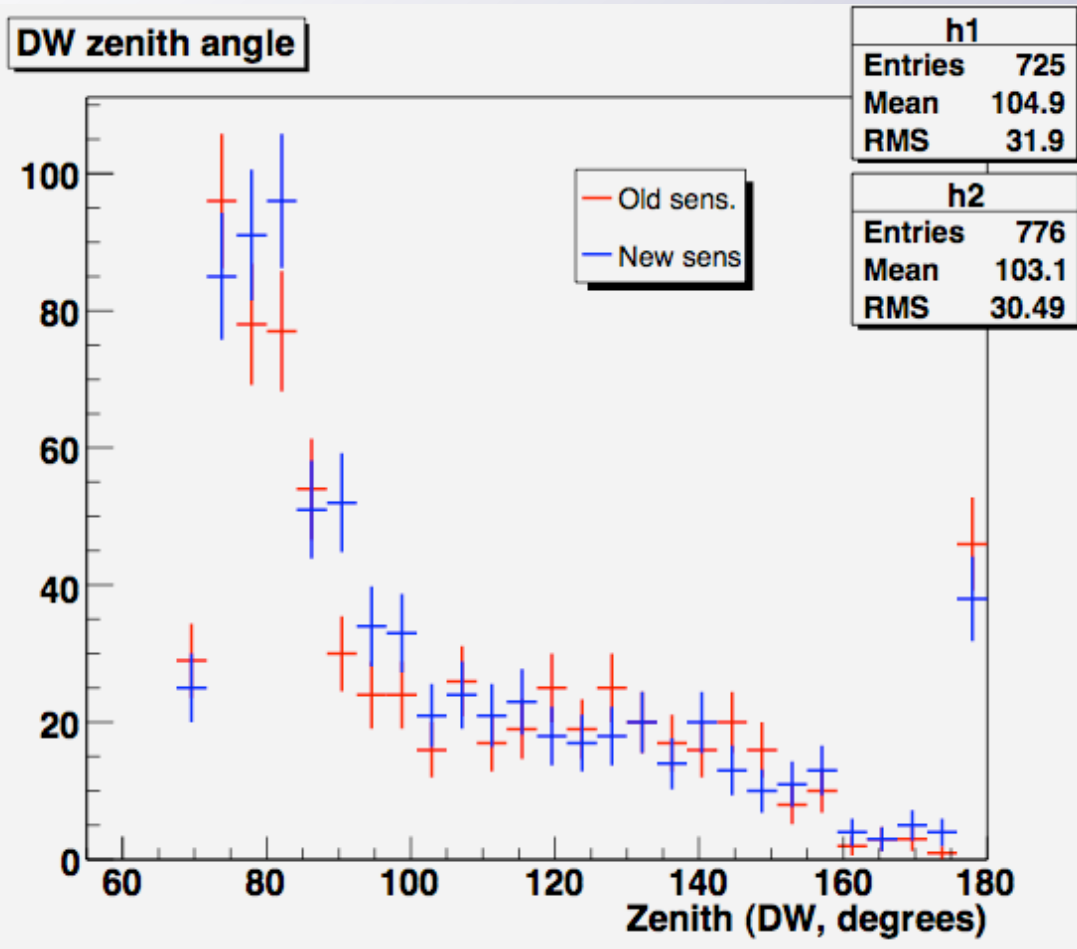


Sensitivity Changes

- Sensitivity of strings 1-4 changed to 0.73 (from 0.85)
- Sensitivity of strings 11-13 changed to 1.21 (from 1.0)
- Dcorsika generated and run through 2000-03 Zeuthen downgoing processing to L3 (200 files each of original and modified cases)



Zenith Angle (Direct Walk)

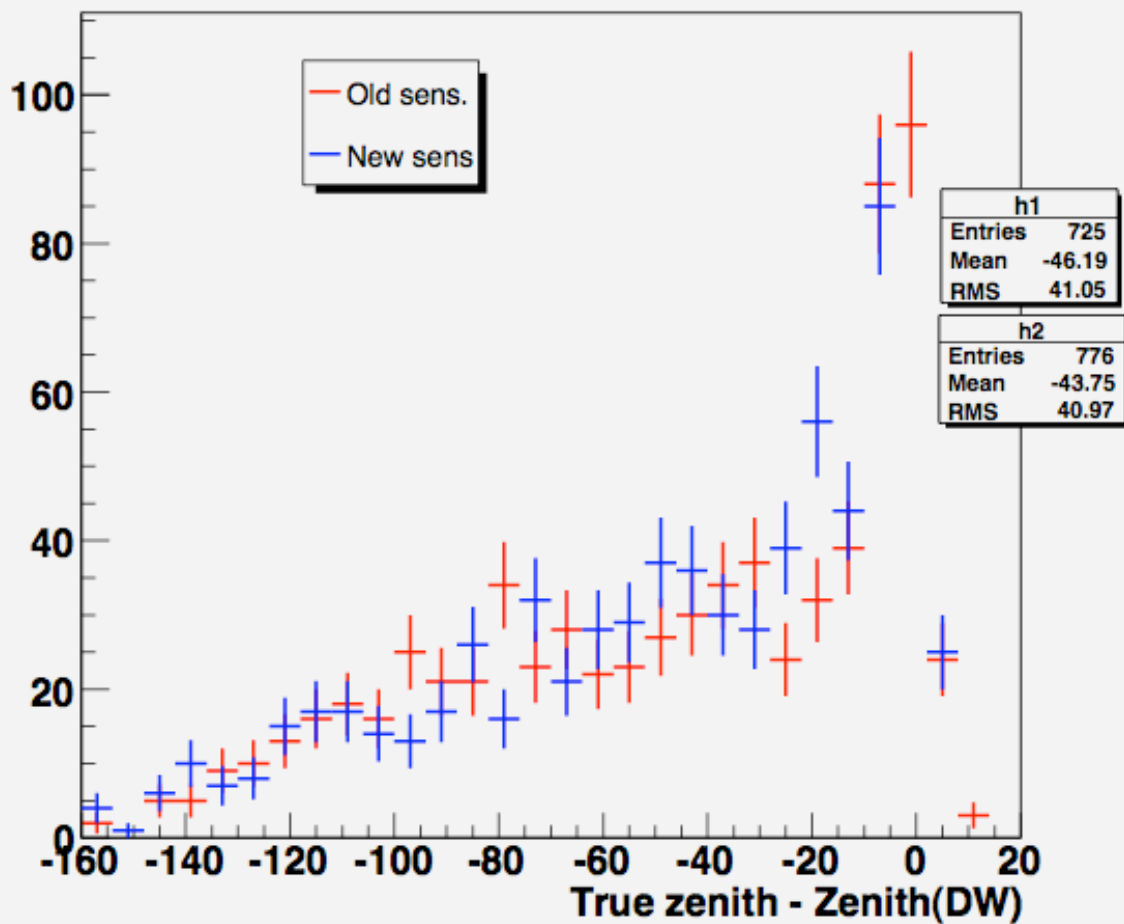


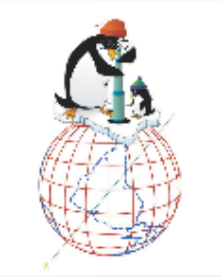
- Statistics are still fairly low at L3
- Trigger rate is 0.8% higher (new string sens.)



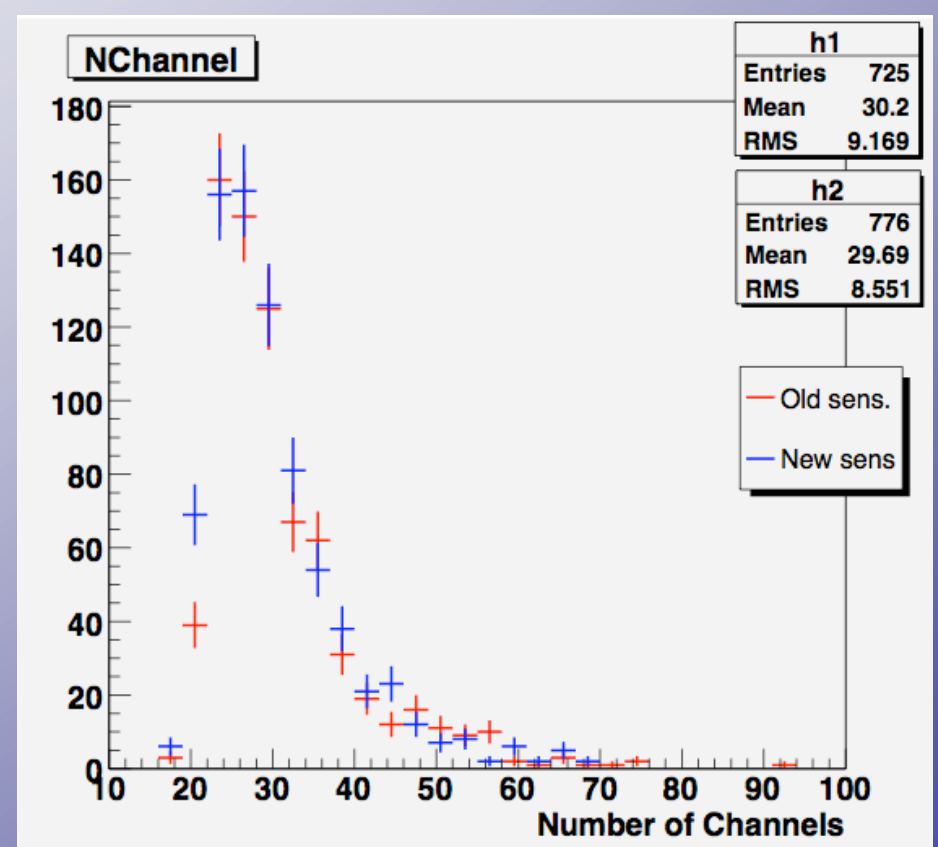
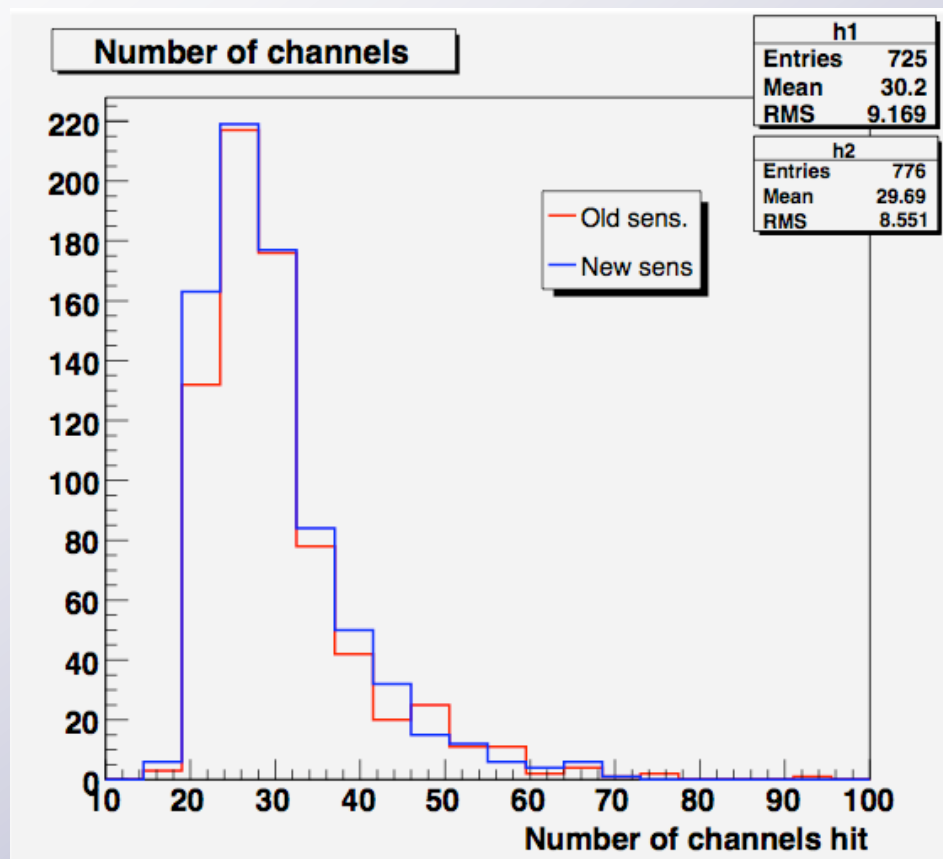
Zenith Angle Error

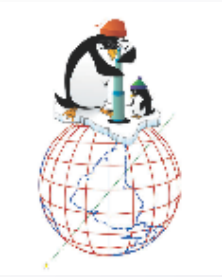
Zenith angle error





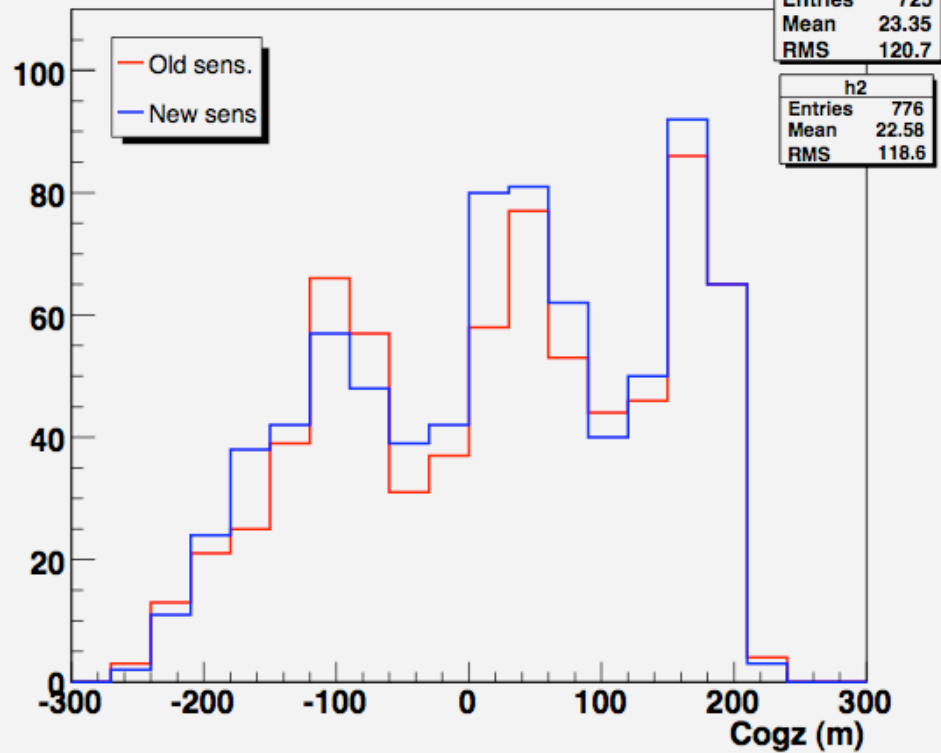
NChannel



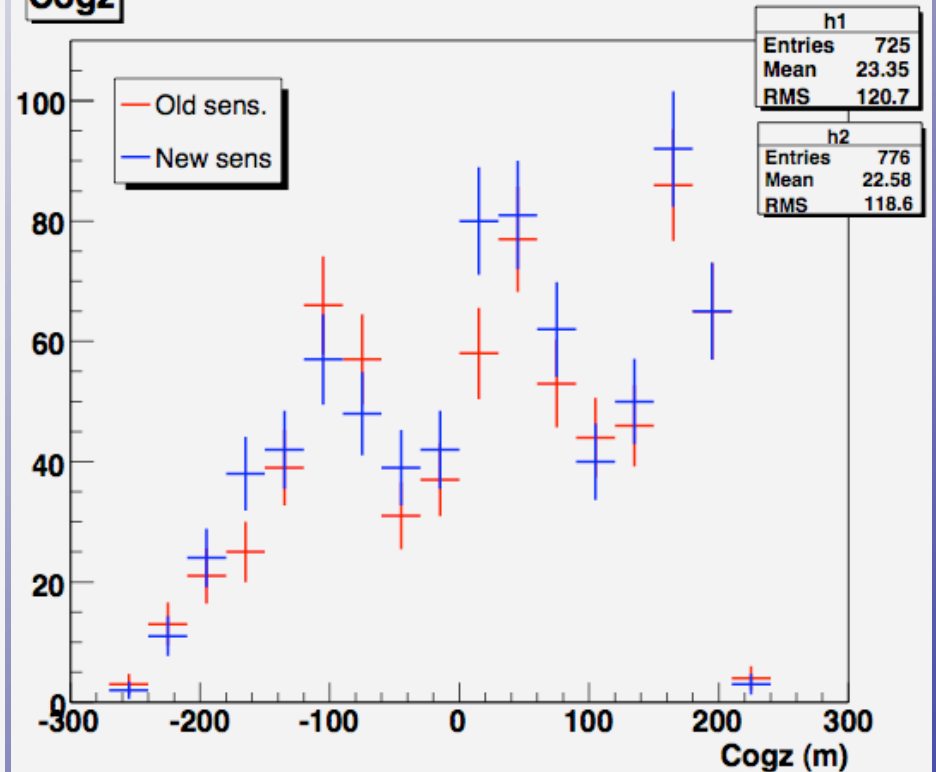


Center of Gravity — Z

Cogz

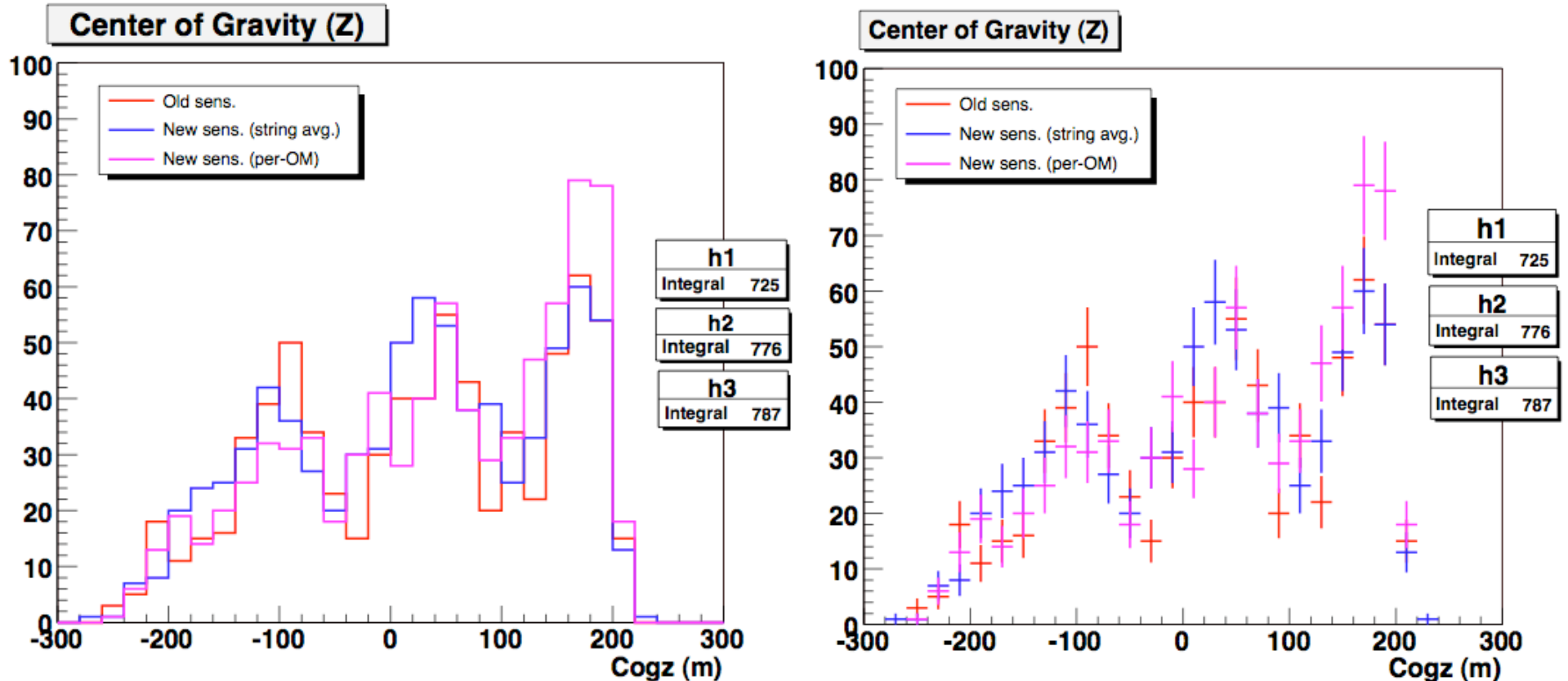


Cogz





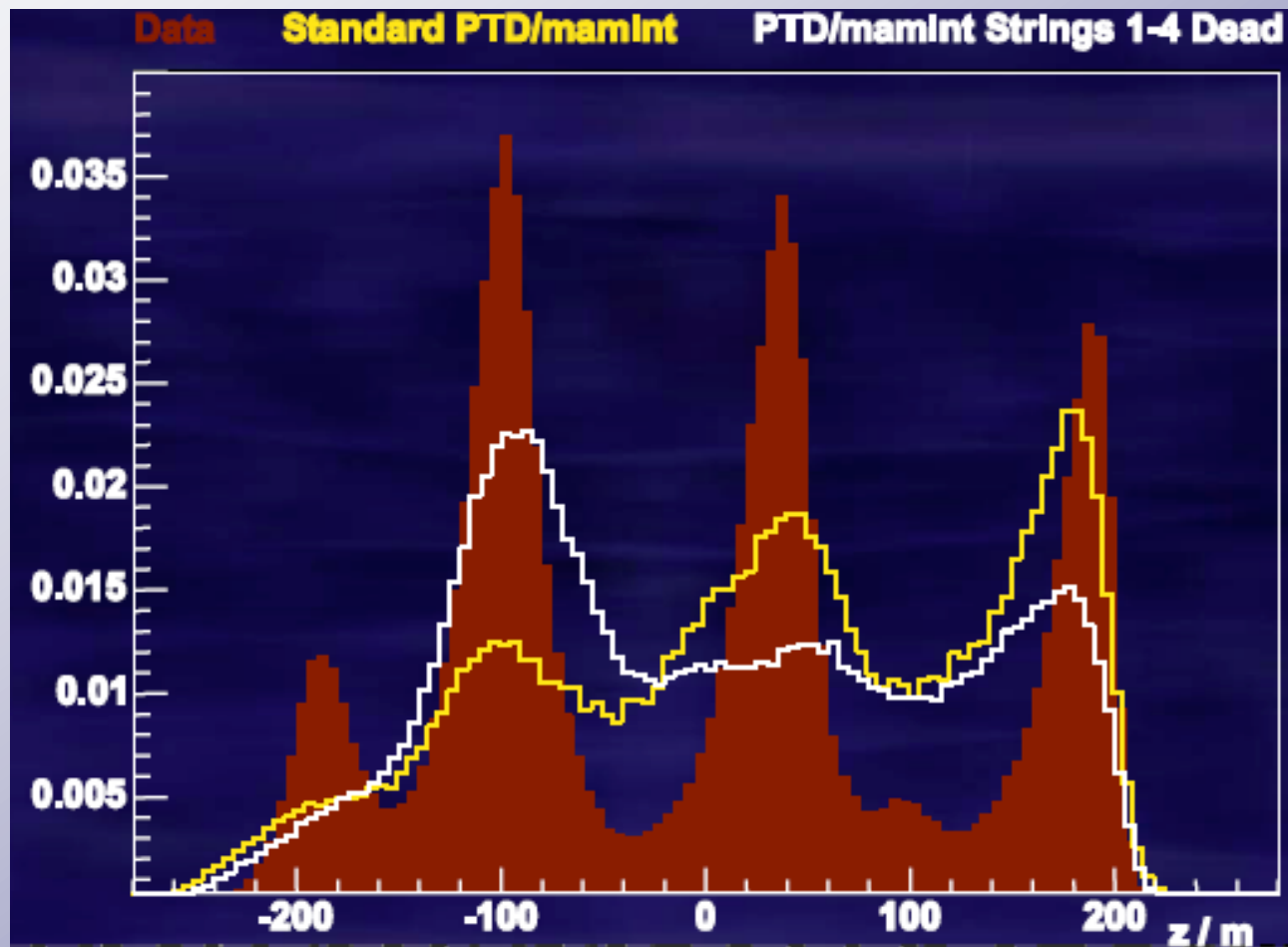
Individual OM Sens.

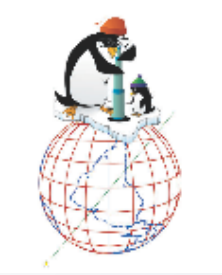


Amasim with individual OM sensitivities from Lang's work:
</data/jkelley/detector/AMAI/2003/geo/ama.elec.mc2003.omsens>



Comparison with Lang





Summary

- Results are consistent with little to no change in Nch, Cogz... at this level of statistics.
- *Might* be a bit of change in 4th COGZ peak
- Generating 5x more statistics now