



# CSC Alignment with Beam-Halo Data

Jim Pivarski

Sergey Senkin

Alexei Safonov

*Texas A&M University*

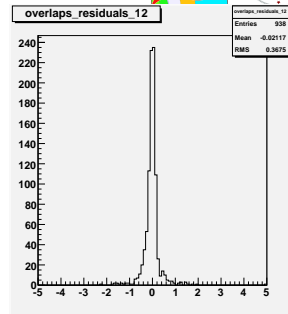
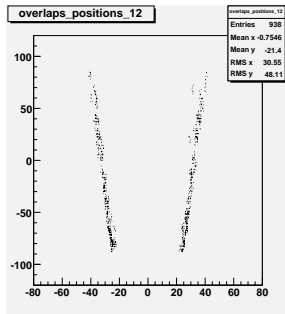
30 September, 2008

# AlCaReco Validation

Jim Pivarski 2/3



- ▶ 2\_1\_8\*, 2\_1\_9 validated (\*shown)
- ▶ Validation now consists of
  - ▶ refitting
  - ▶ plotting (new)
- ▶ Soon, full workflow



- ▶ Plots with refit: OfflineValidation/plugins/AlCaRecoMuAnalyzer
- ▶ Migration of plots to DQM is possible, but workflow can't be in DQM
- ▶ Only one AlCaReco is being produced: ALCARECOMuAIOverlaps, but we'd prefer to test all the muon AlCaRecos
- ▶ Produced for all primary datasets, but we only need ReValZMM

New Texas A&M graduate student: Sergey Senkin



## ► Barrel chambers

1. Align muon wheels with tracker, keeping survey-based internal structure intact
2. Baseline MuonHIP algorithm on 200 out of 250 chambers (there are no horizontal cosmic rays), compare with (1)

## ► Endcap chambers

1. CSC Overlaps procedure with cosmics to internally align rings
2. Align rings with tracker, decomposing  $r\phi$  correction track-by-track, possibly measuring magnetic field directly

