

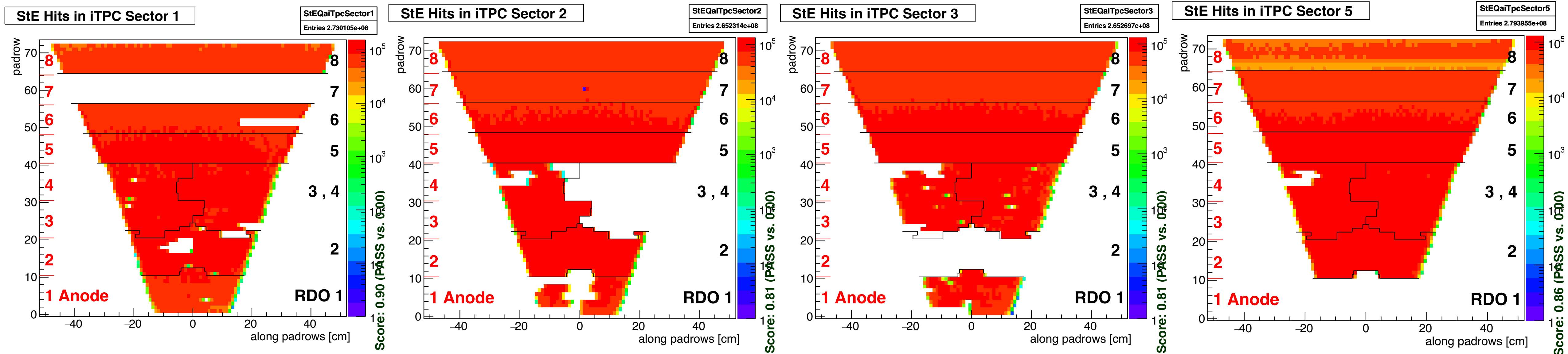
Fast Offline QA report December 1-4, 2025

Days: 334-338

**Arushi Dhamija
Panjab University, Chandigarh, India**

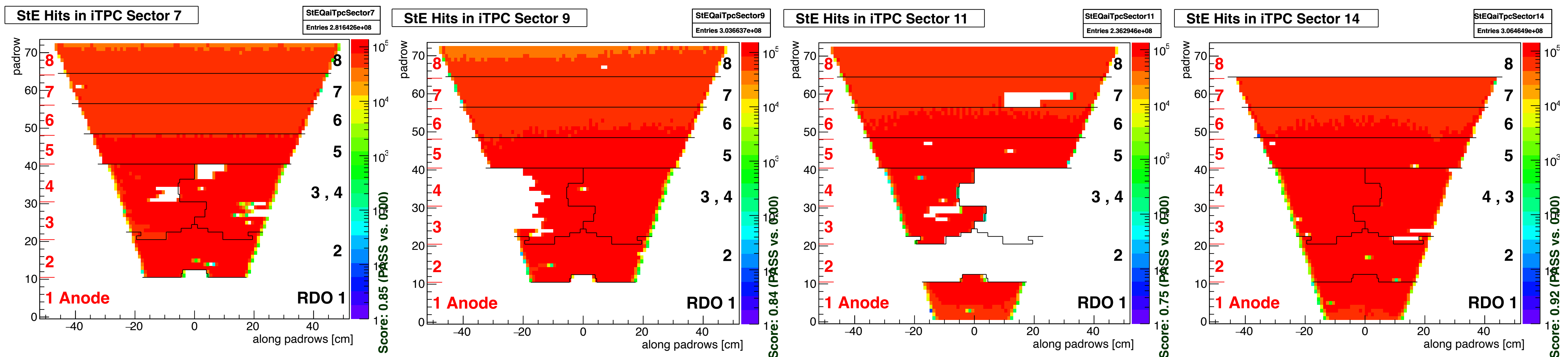
TPC Sectors: Masked out

- There were a total of 15 RDOs were masked in current ongoing week from day 334-337.
- iTPC S01-R7, S02-R4, S03-R2, S05-R1,
- iTPC S7-R1, S9-R1, partially 3, S11-R2&4, S14-R8,
- iTPC S15-R3, S16-R2, S20-R3, S22-R4,
- iTPC S24-R4



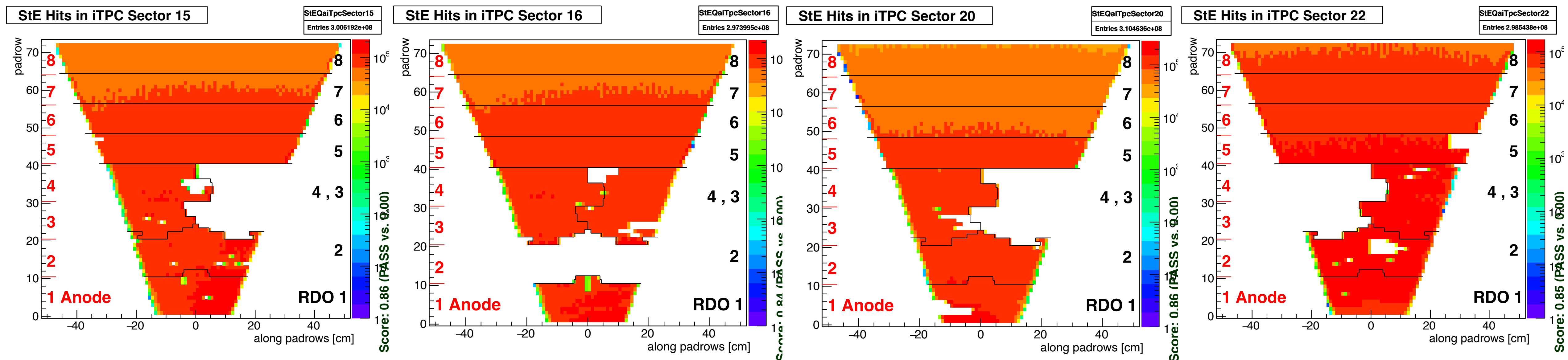
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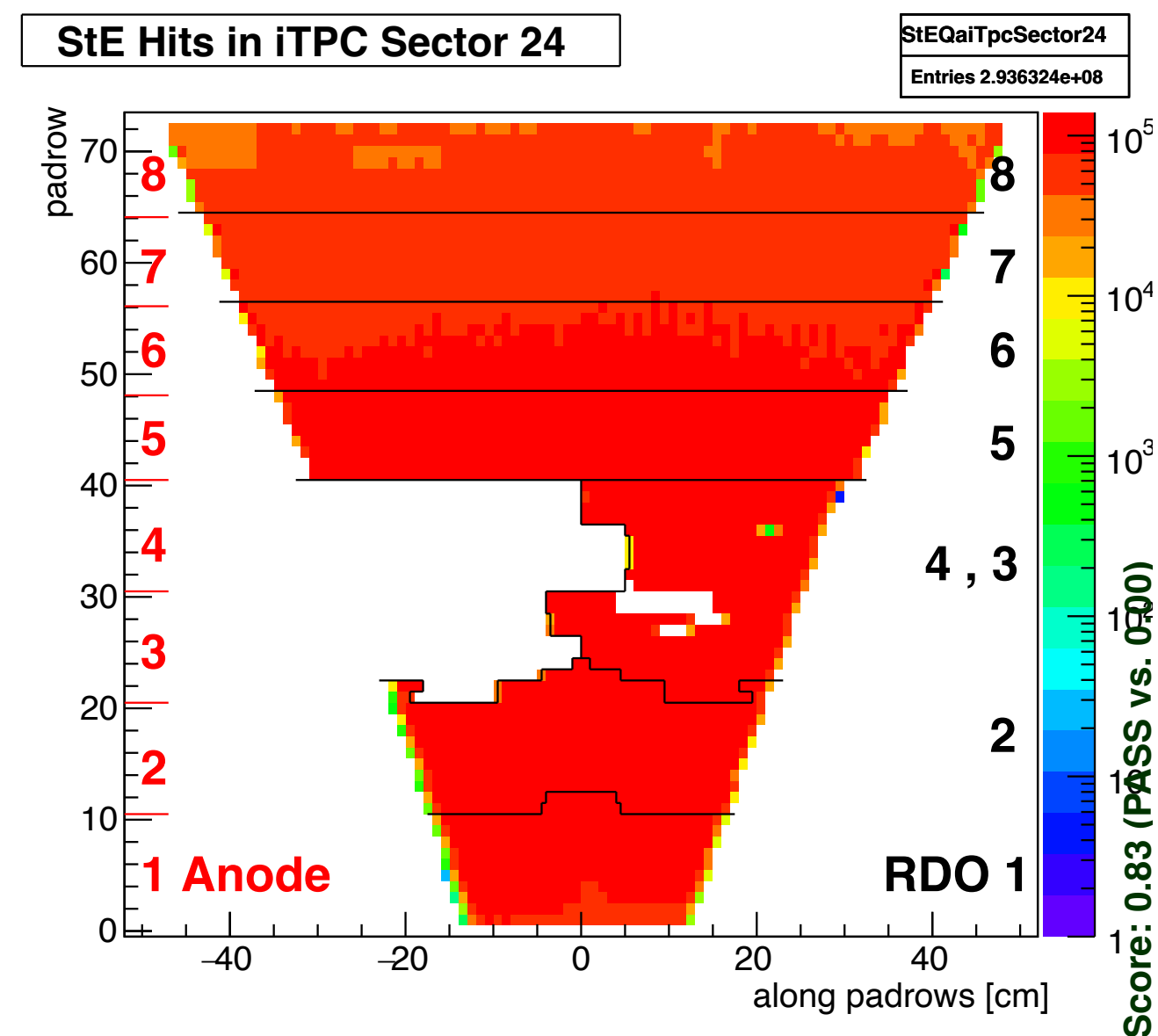
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- iTPC S24-R4



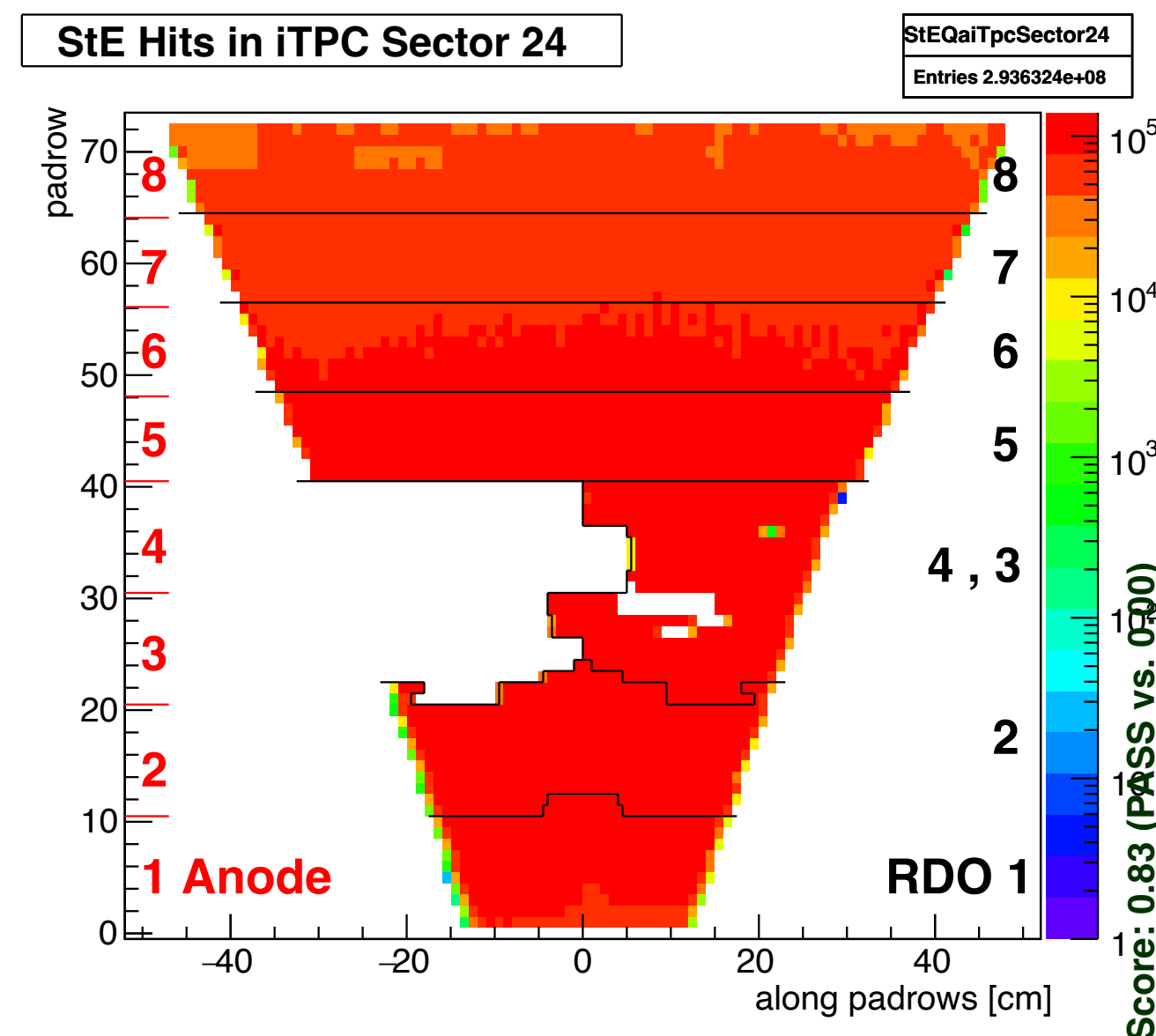
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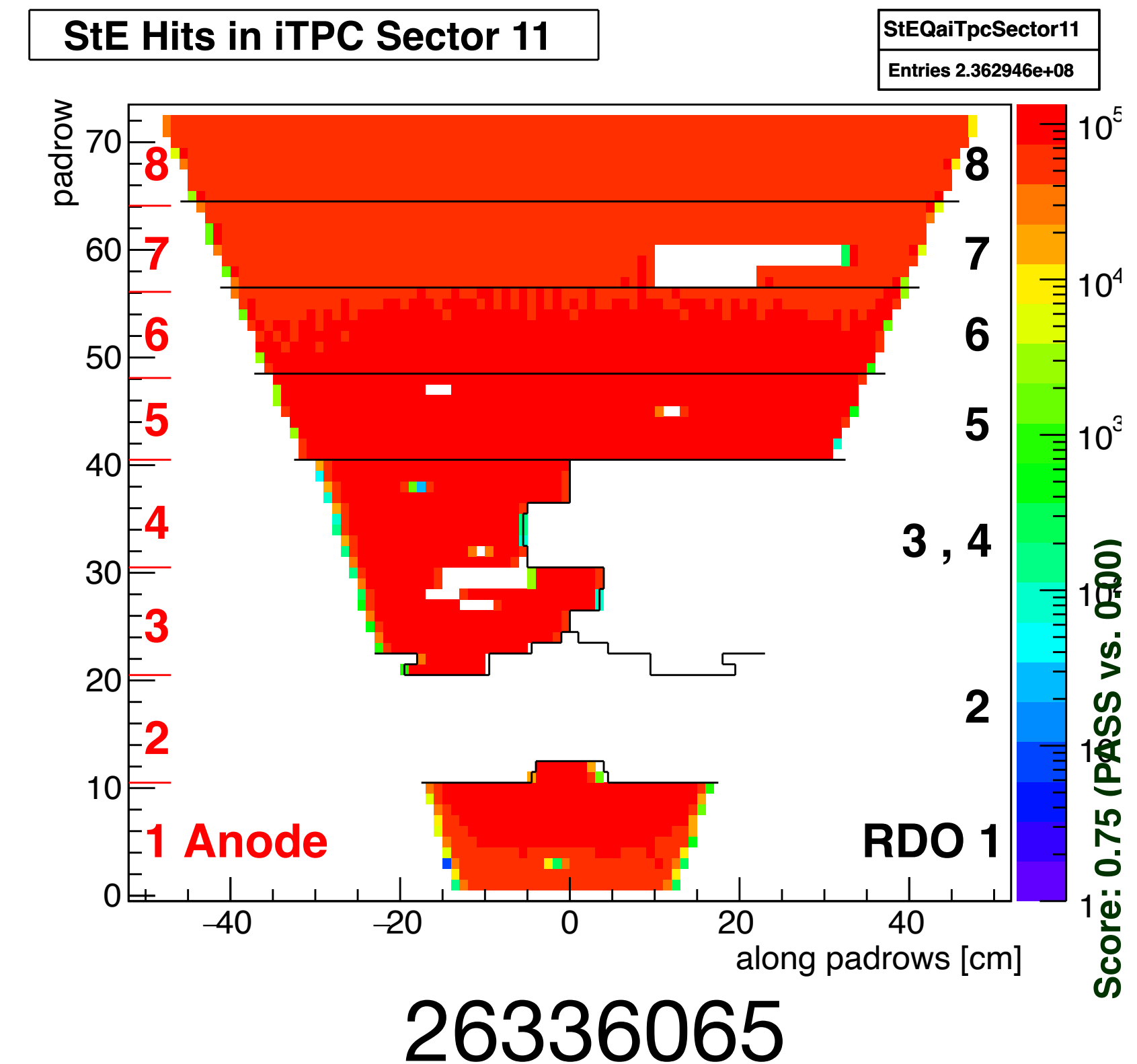
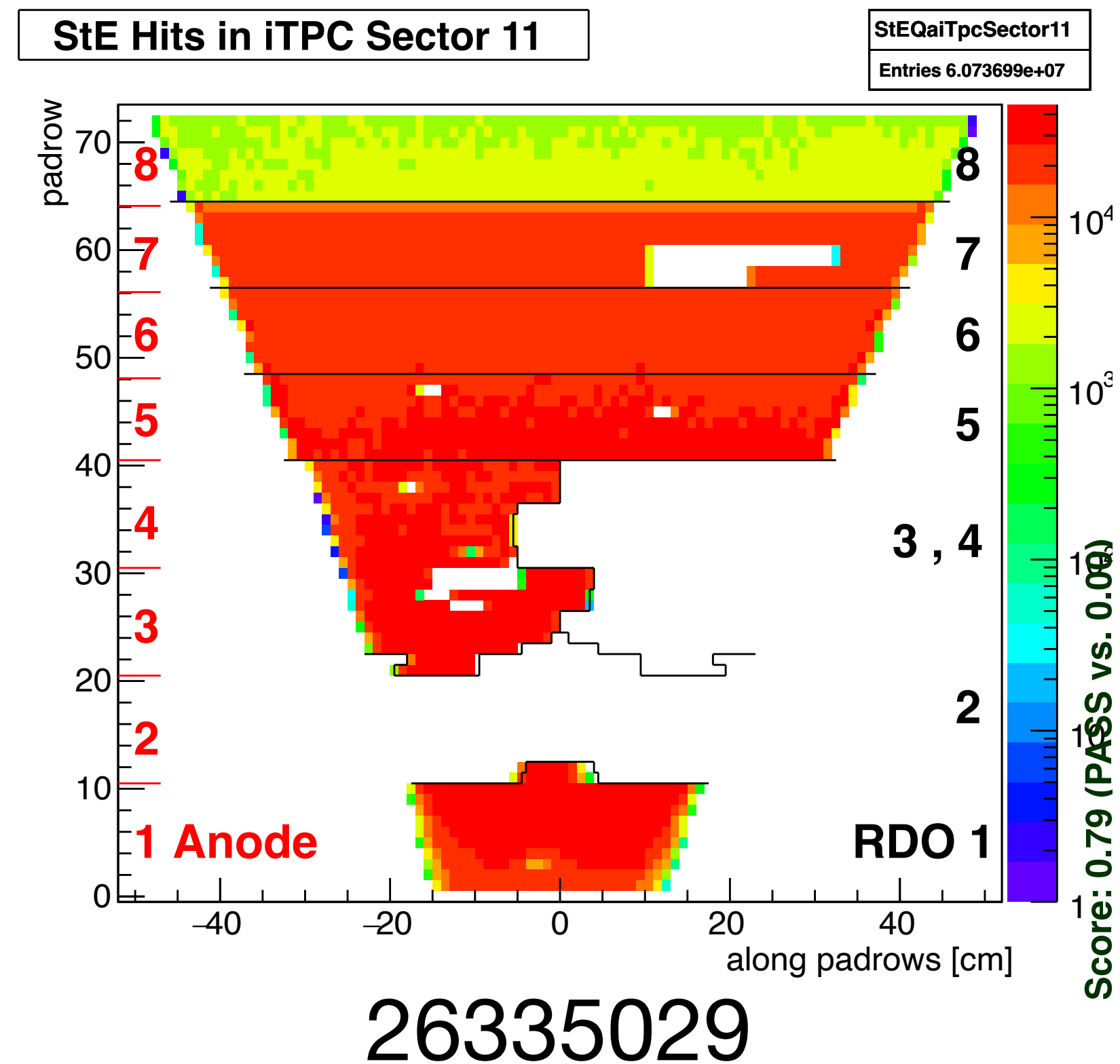


- For some runs from the day 338 which is just noticed, in addition to previously mentioned iTPC, two more iTPC were masked out
- iTPC S8-R1 and S12-R3.

TPC Sectors: Reduced hits (RESOLVED)

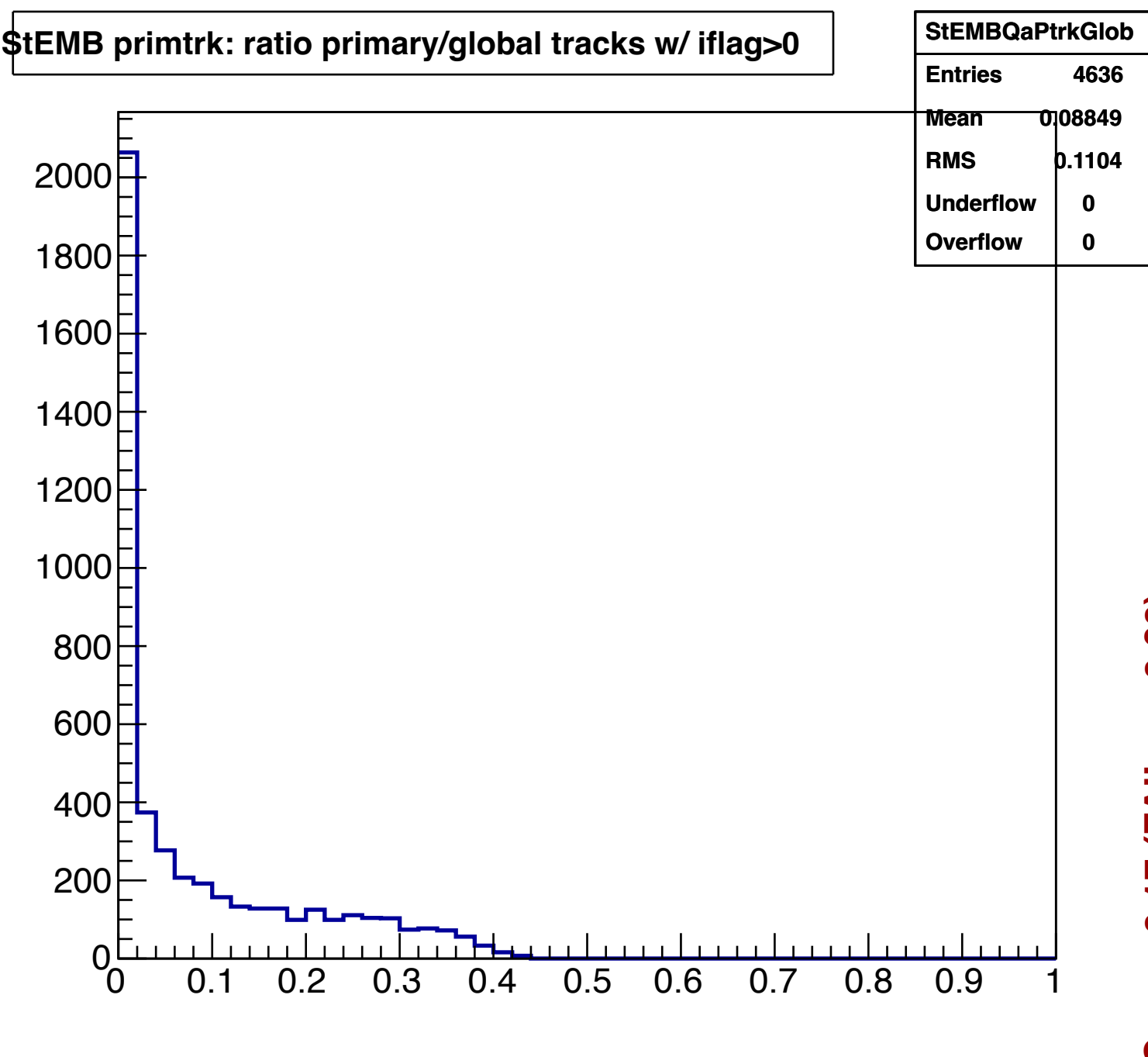
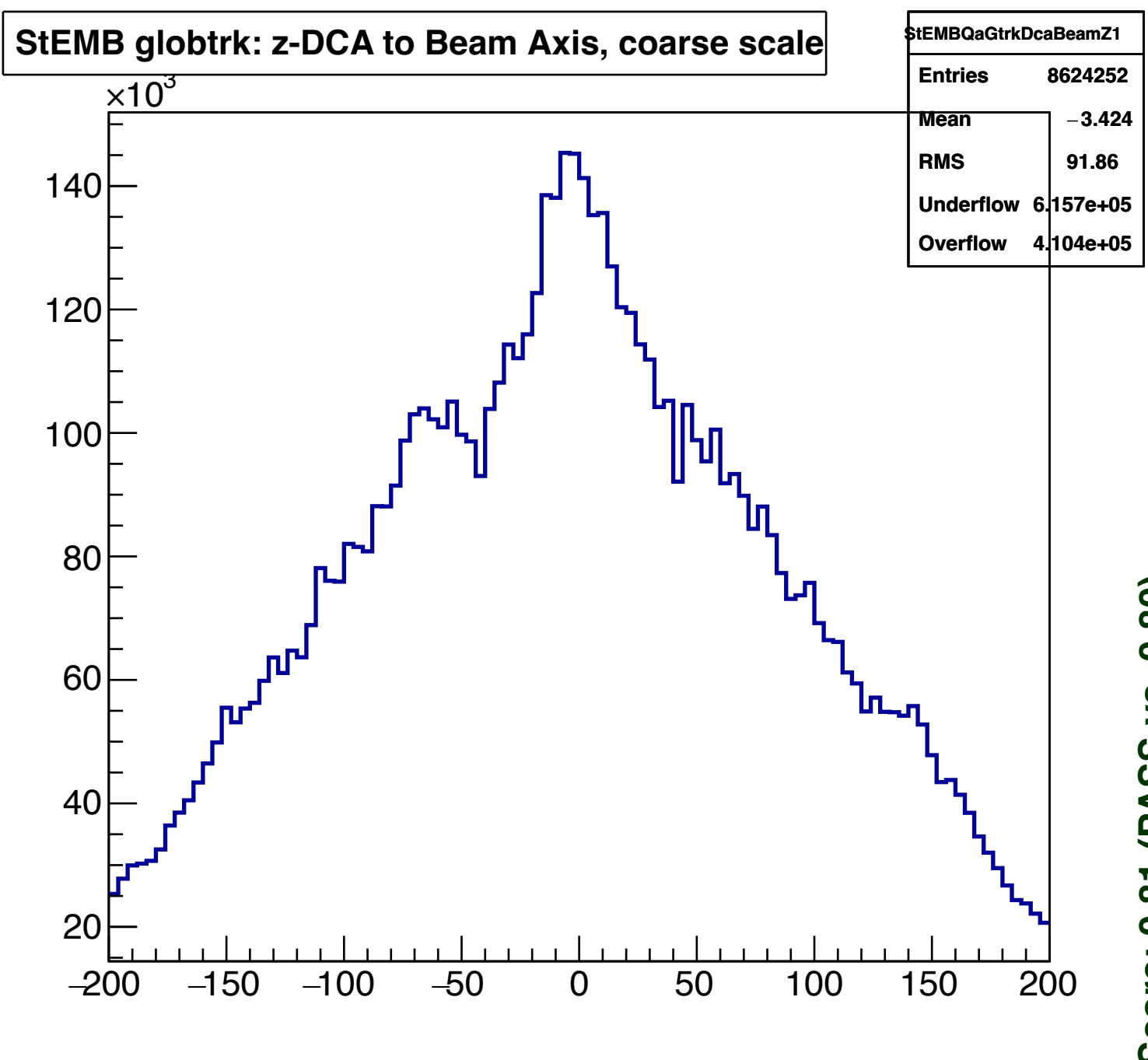
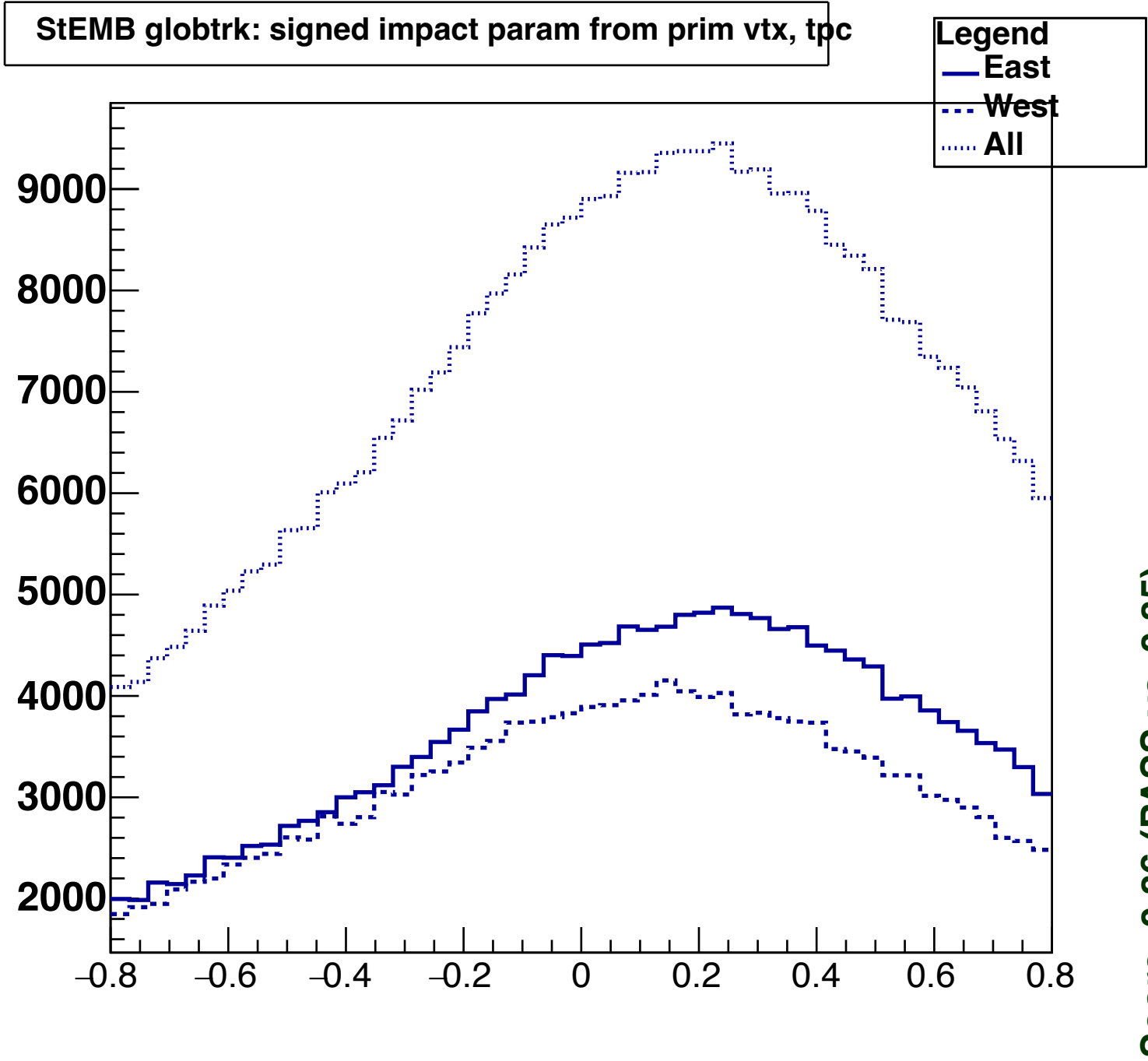
From last week, TPC Sector 11 RDO 8 had reduction in the number of hits,

But got resolved by the end of 335th day.



Tracking

- Signed IP large peak are shifted toward positive values from zero - for some runs (Issue ID: 21010).
- z-DCA to Beam Axis is very wide - for some runs (Issue ID: 21184).
- Reduced number of primary tracks and primary / global ratio - for some runs (Issue ID: 21038).



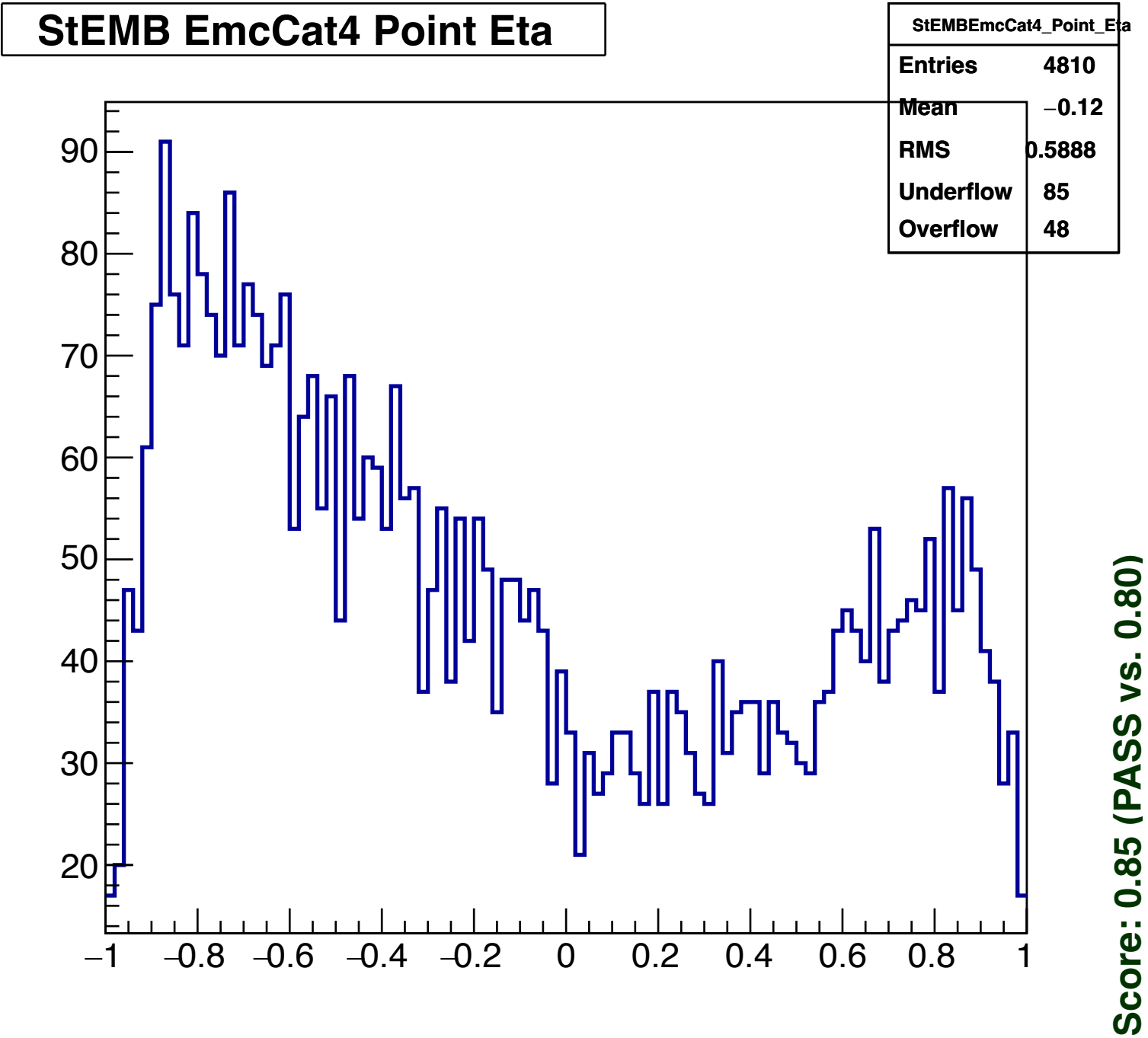
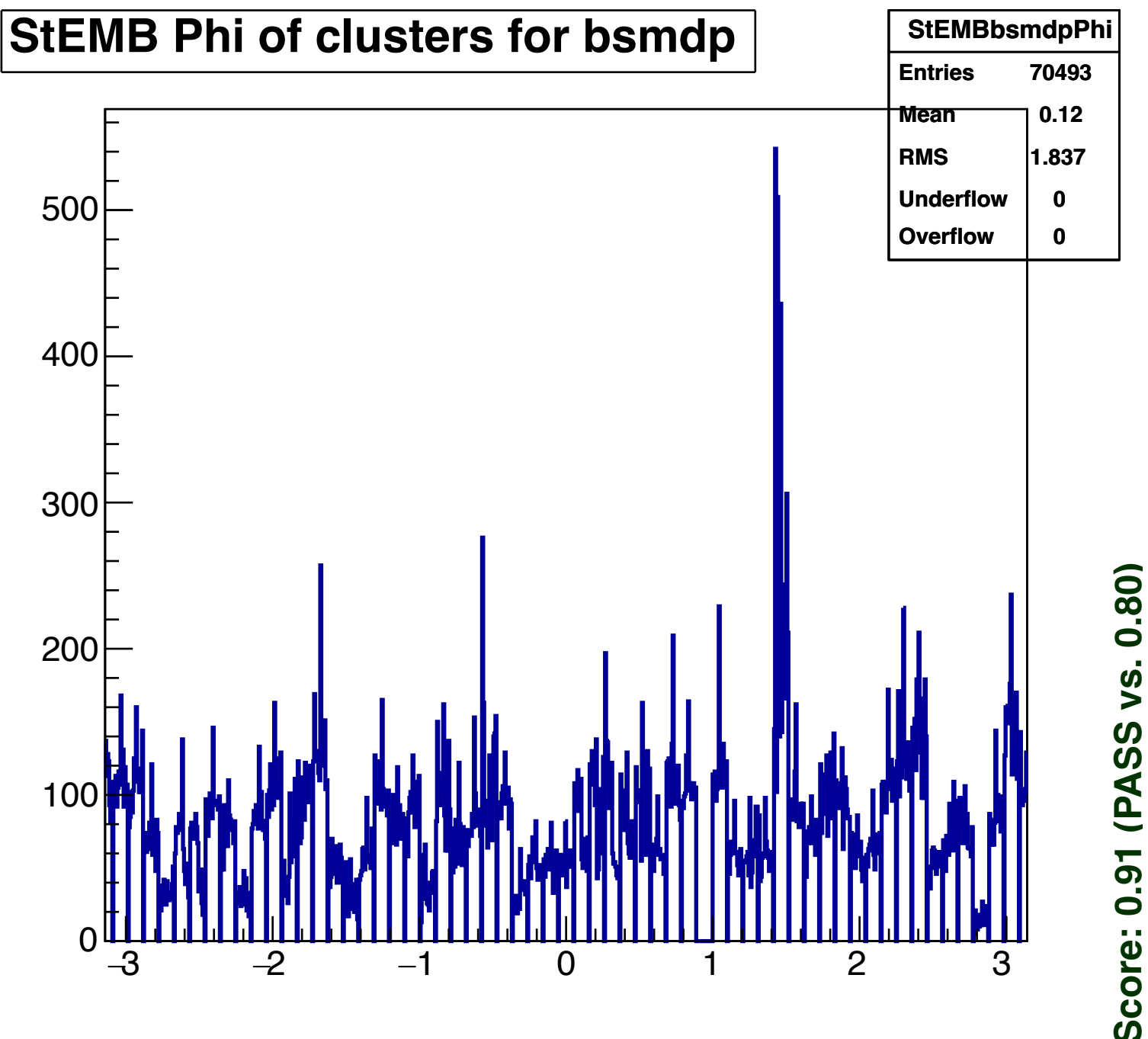
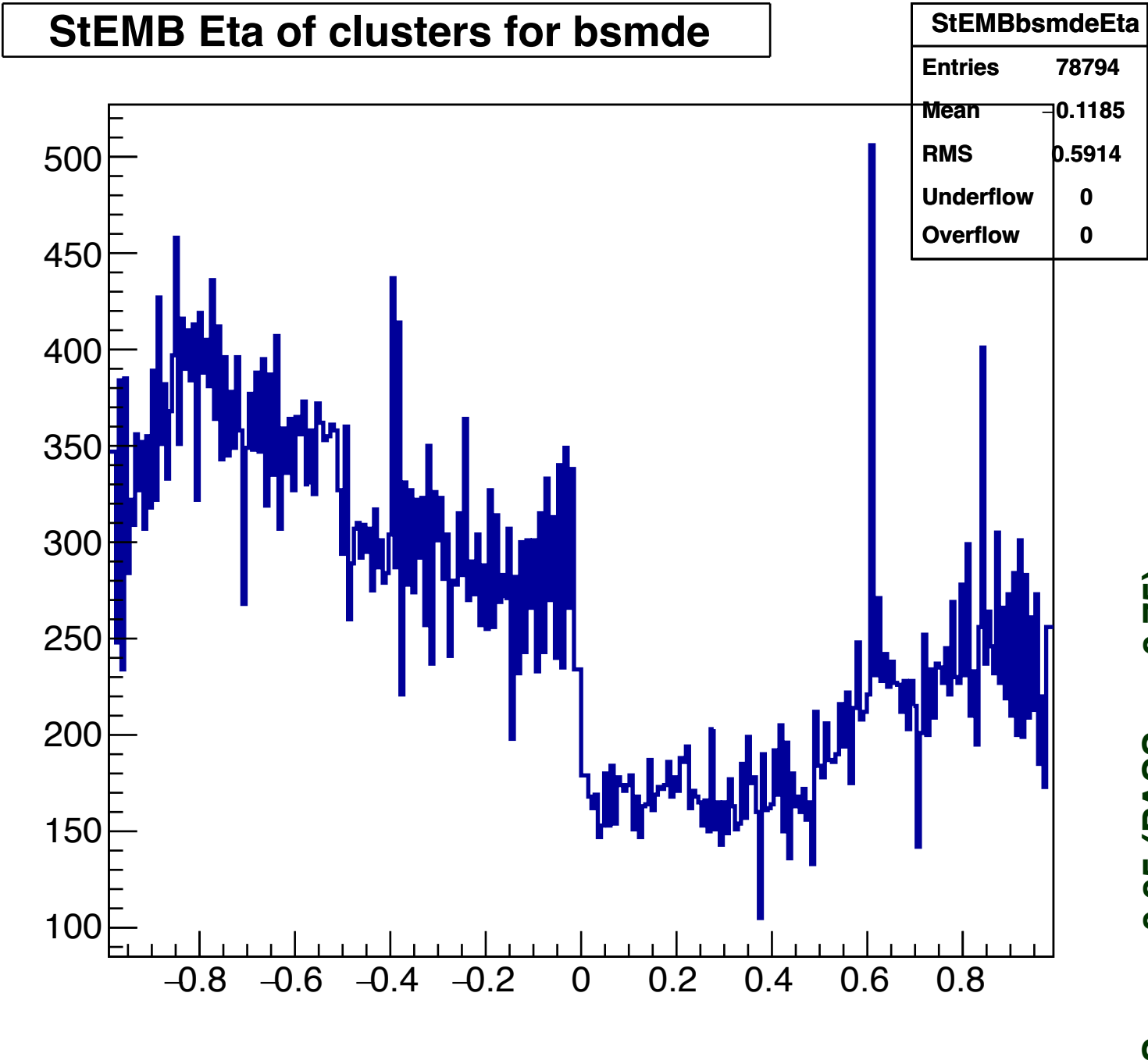
BEMC/BSMD

BSMD eta and phi issue:

- The BSMD eta and phi grids had some hot regions -for most runs.

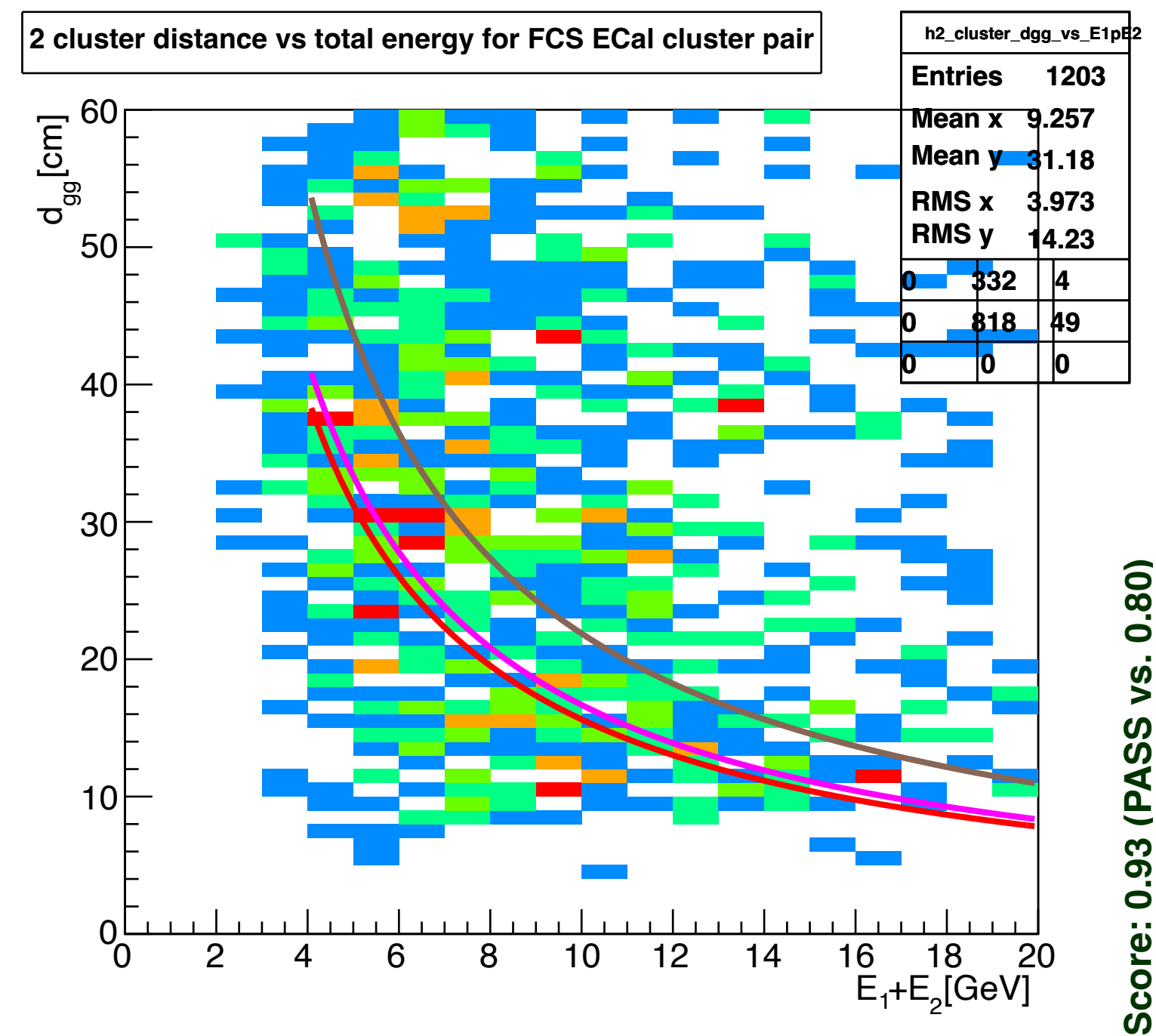
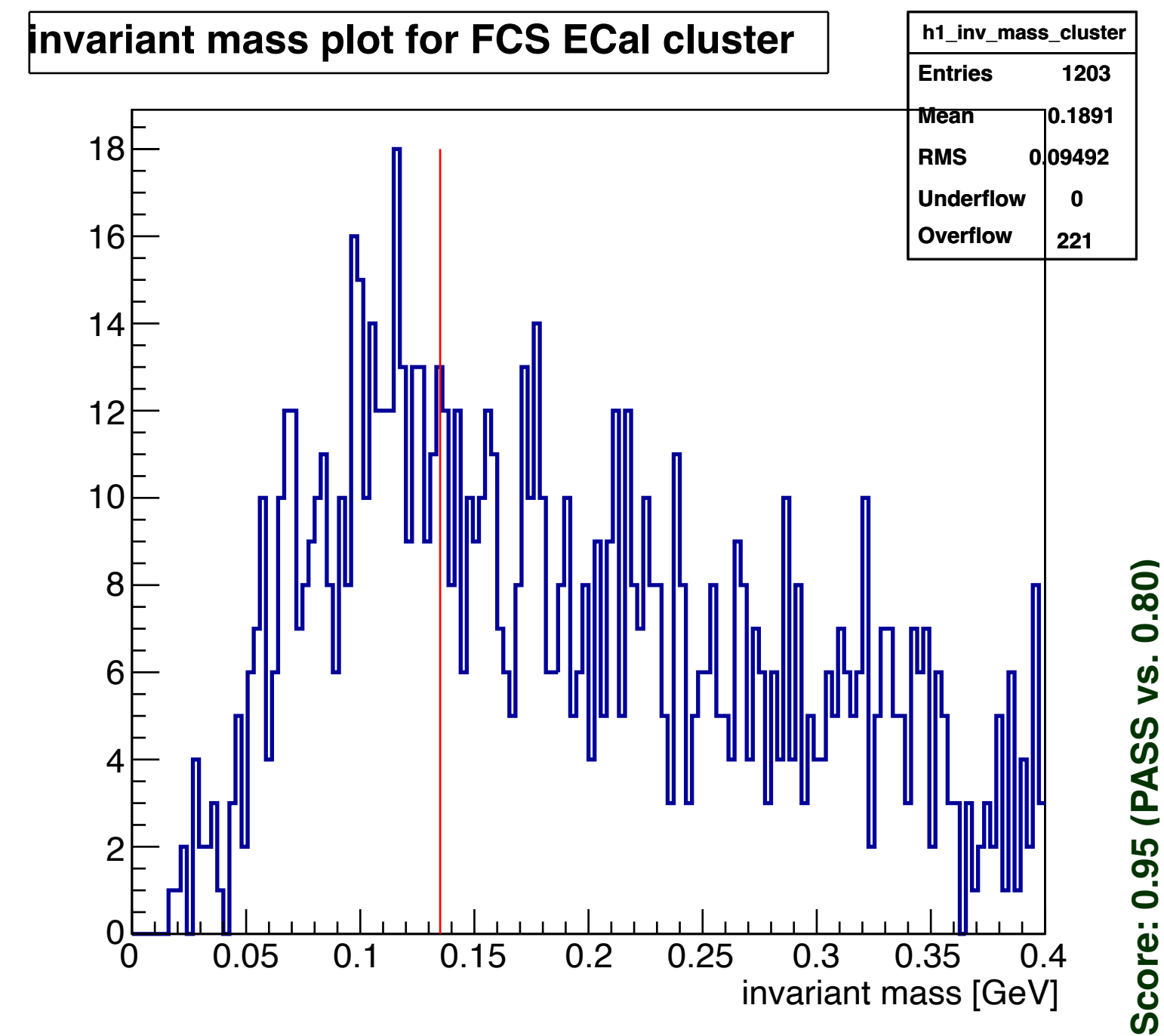
EMC eta issue:

- EMC-SMD Category 4 eta distributions are non-flat -for most runs.



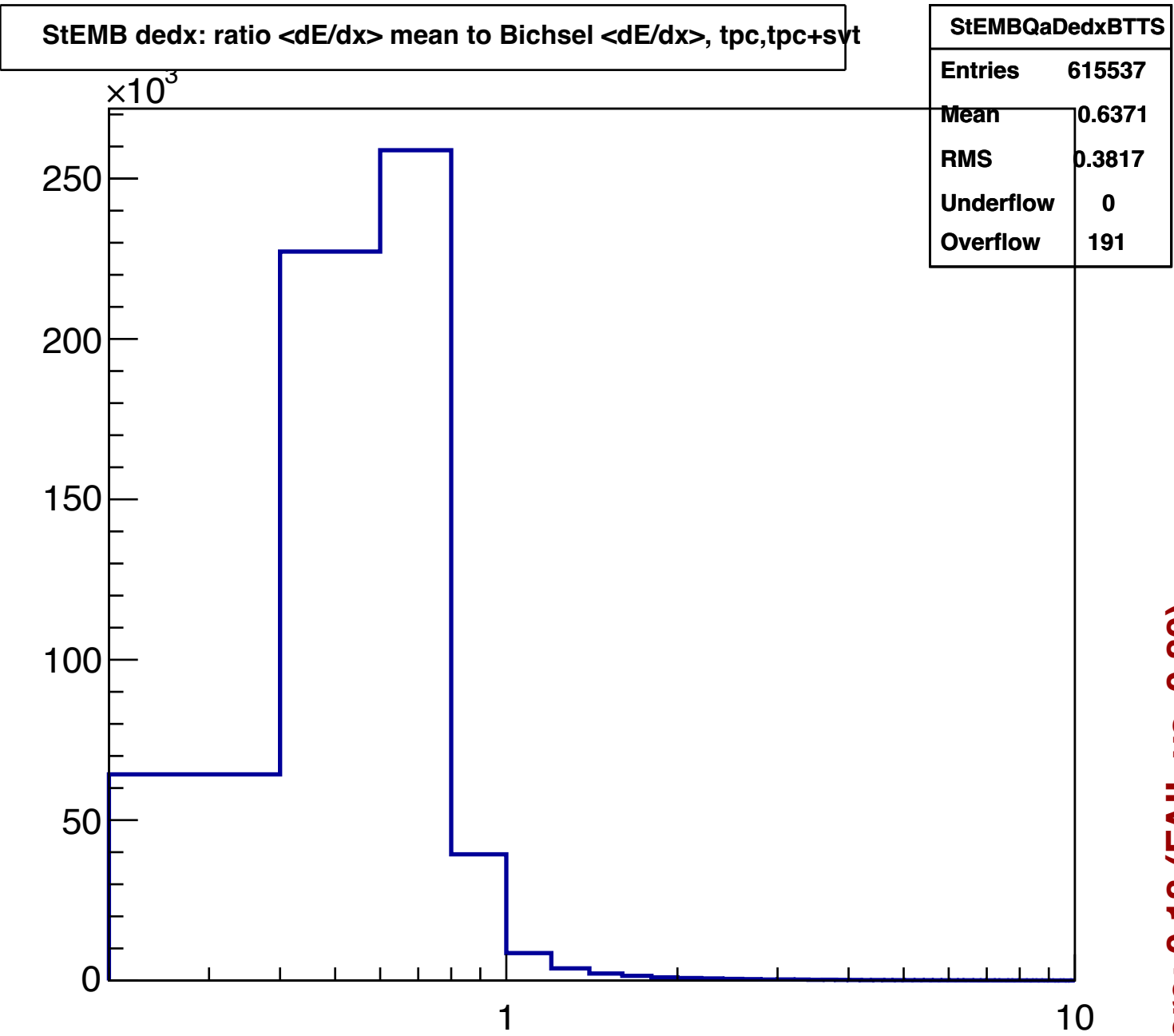
FCS

- Invariant mass peak for FCS ECal cluster is shifted to lower mass region beyond 0.15 GeV. -for most runs
- d_{12} vs $E_1 + E_2$ for FCS Ecal cluster has hot area outside expected region. -for most runs

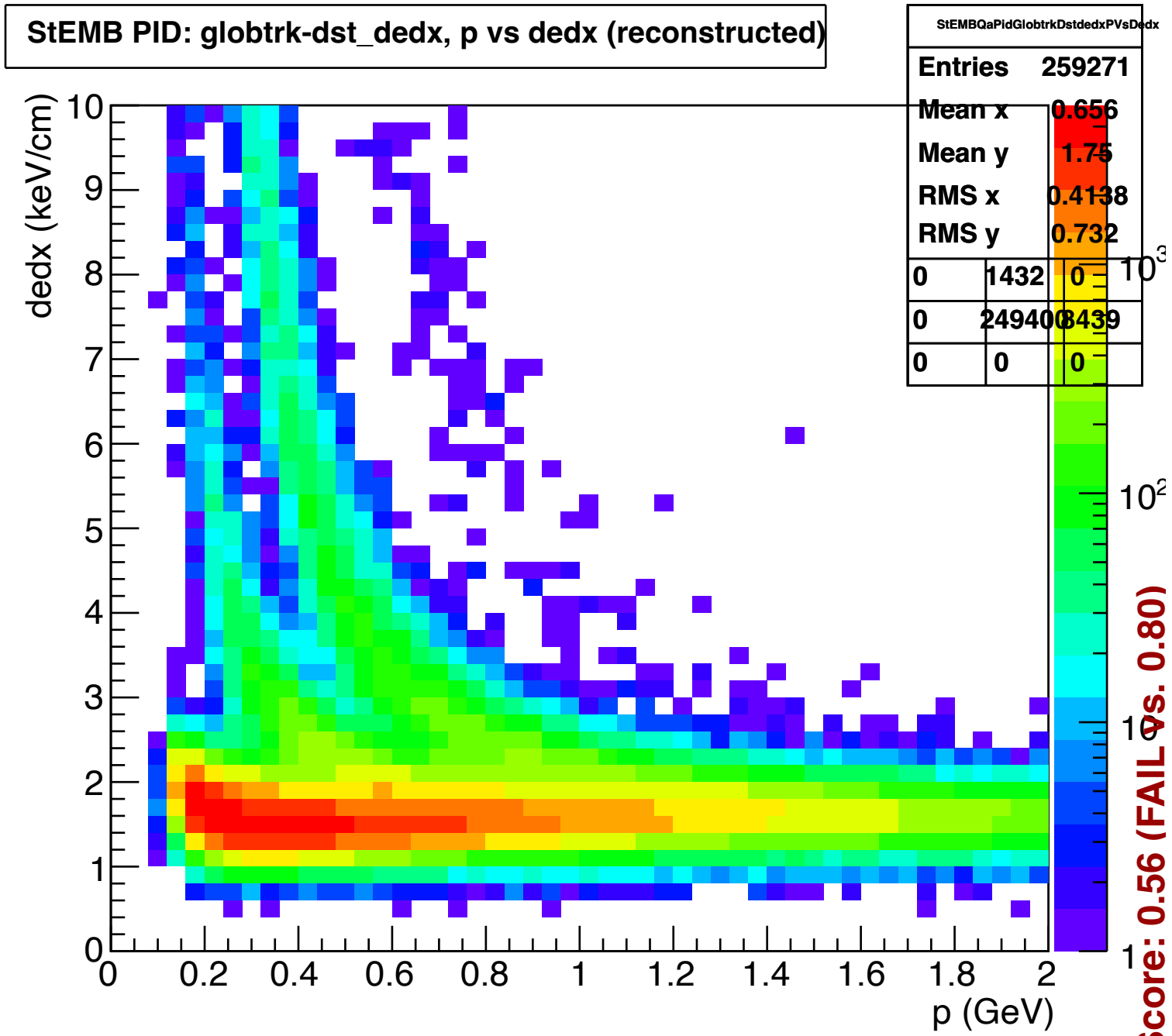


Other issues

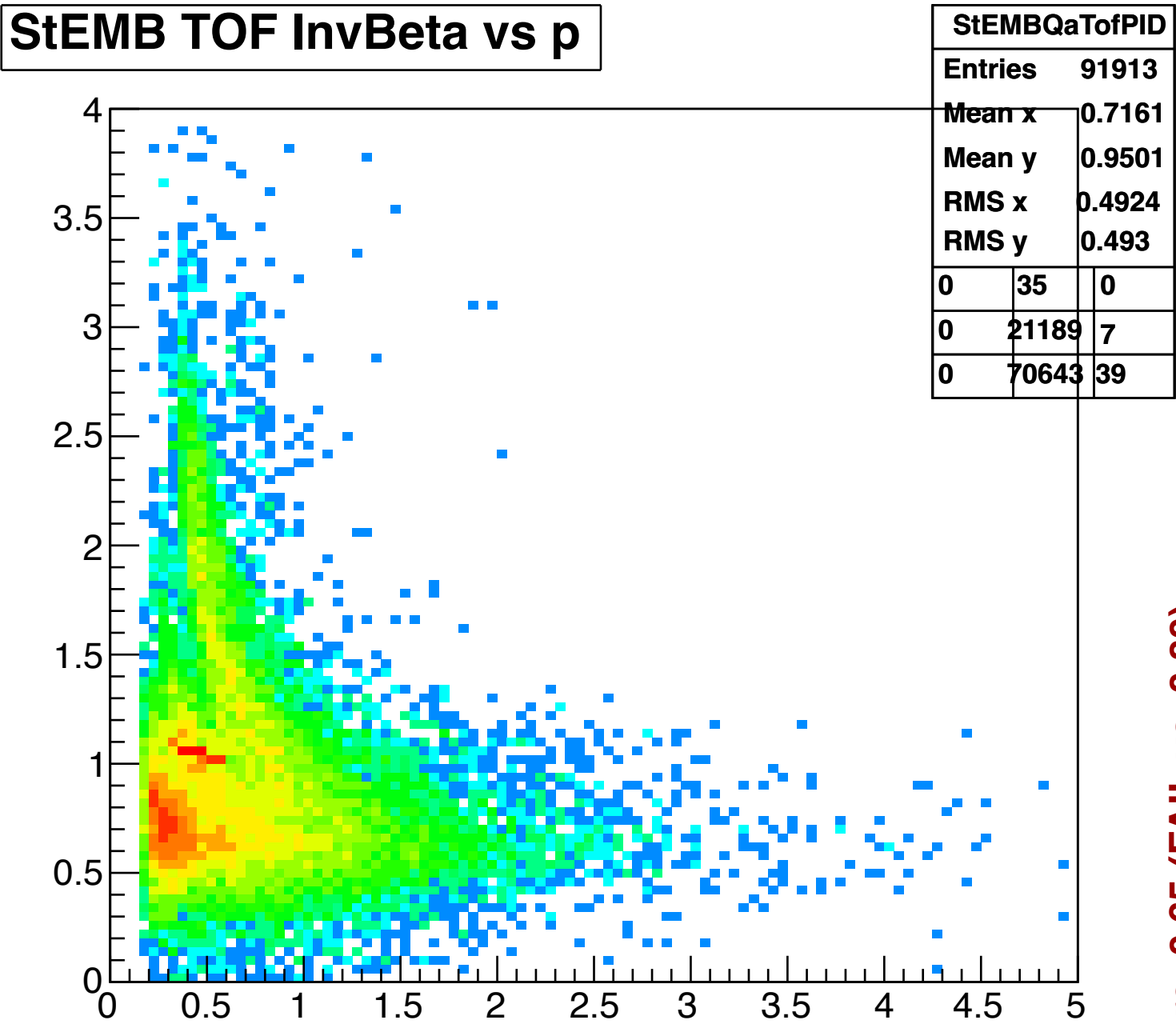
- Missing histograms in General section (triggerbit, impact parameter vs time, TPC sector 1 and 2) and the wrong order (fcs on top) - for st_physics - only for some runs
- dE/dx, mean dE/dx, and ToF Inverse beta vs momentum distributions are shifted too low (below 1) - for all runs.



Score: 0.18 (FAIL vs. 0.80)



Score: 0.56 (FAIL vs. 0.80)



Score: 0.65 (FAIL vs. 0.80)

Thank you!