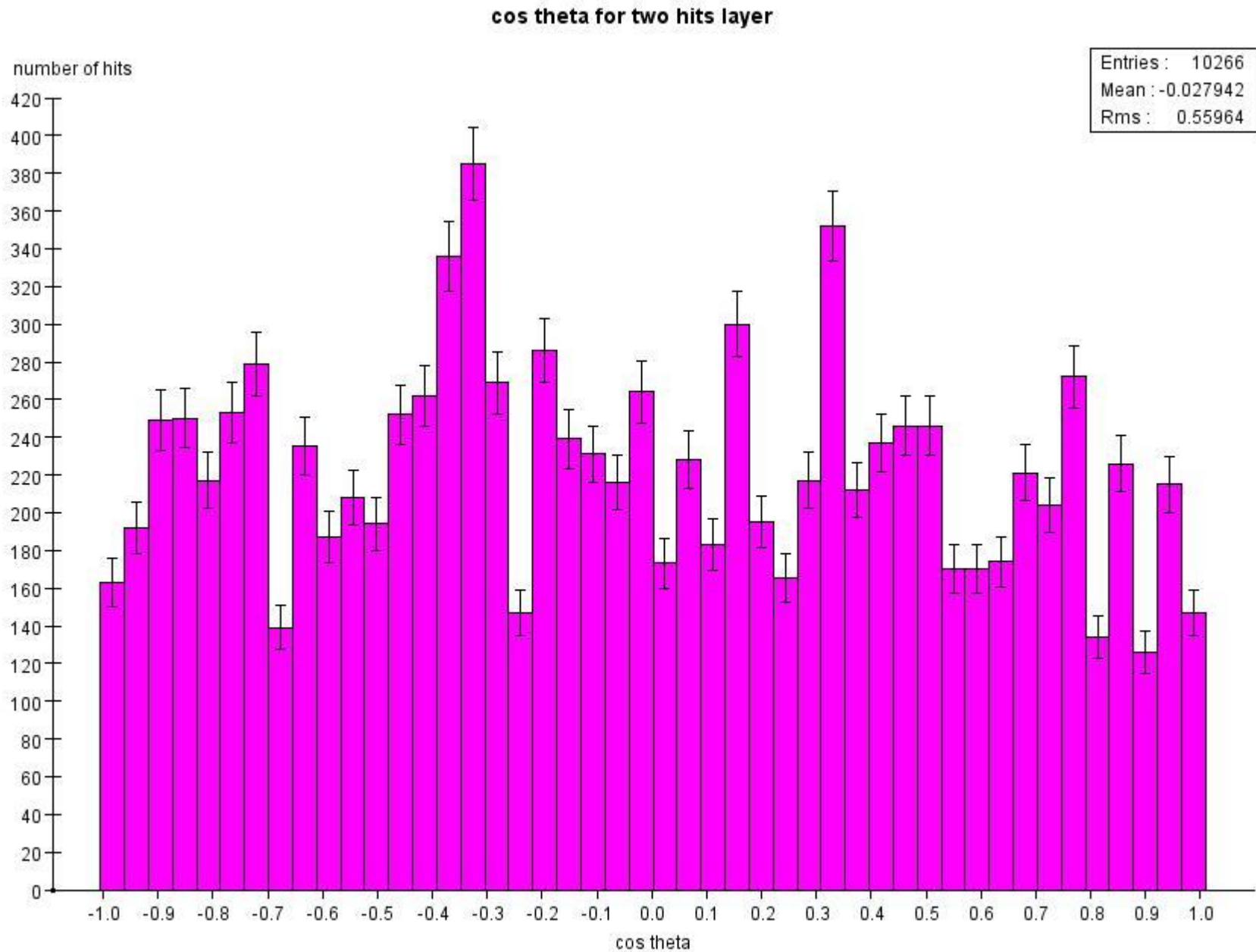


Hit distribution in Muon Det.

- Muon each layer has two read out. So it is supposed to have two hits per layer.
- Some of layers have only one hit.
- Ron suspected that endcap tends to have one hit.
- Used 1000 events of single muon sample (0-50GeV)
- Plot shows indeed that endcap has one hit more than barrel region.
- Energy is calculated based on the hit.
- Two hits in the same cell have different cell ID.
- So it will sum up two hits energy for one layer in barrel.
- But endcap uses only one hit for energy calculation.
- It will underestimate energy for endcap?

Distribution of two hits per one layer



Distribution of one hit per layer

cos theta for one hit layer

