



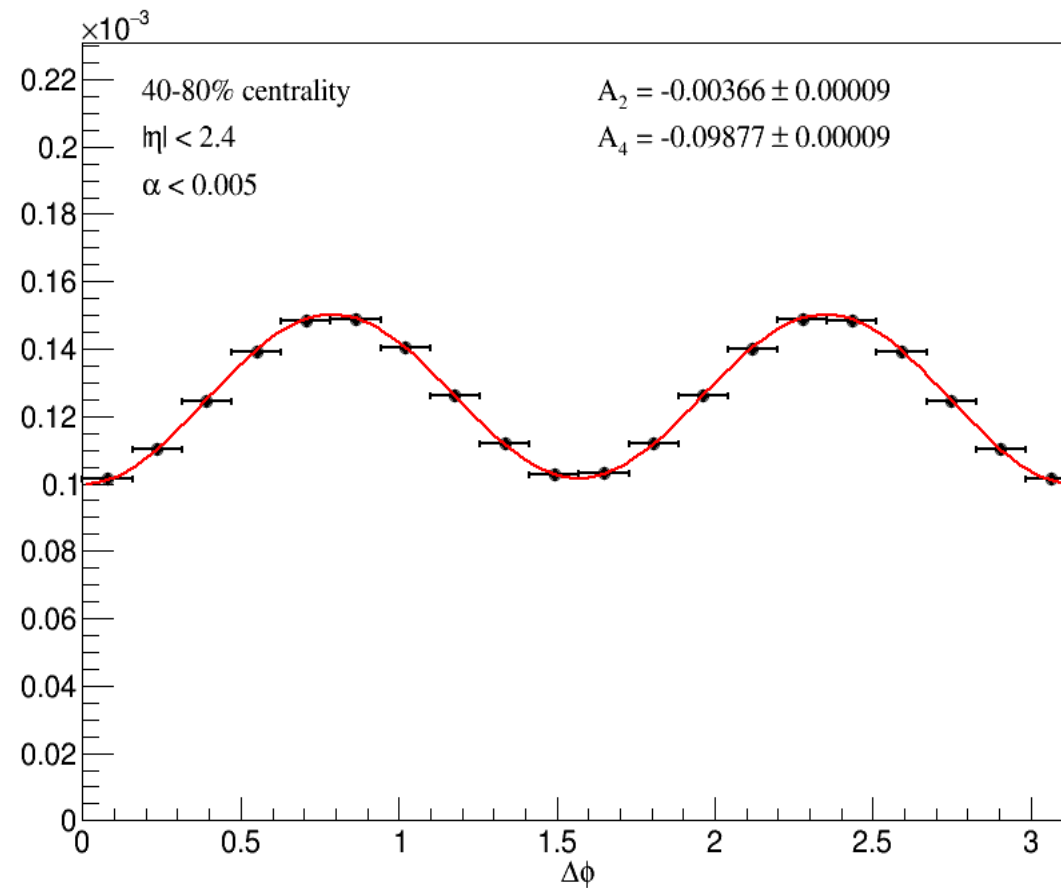
中国科学技术大学
University of Science and Technology of China

Weekly Report

Zhan Zhang

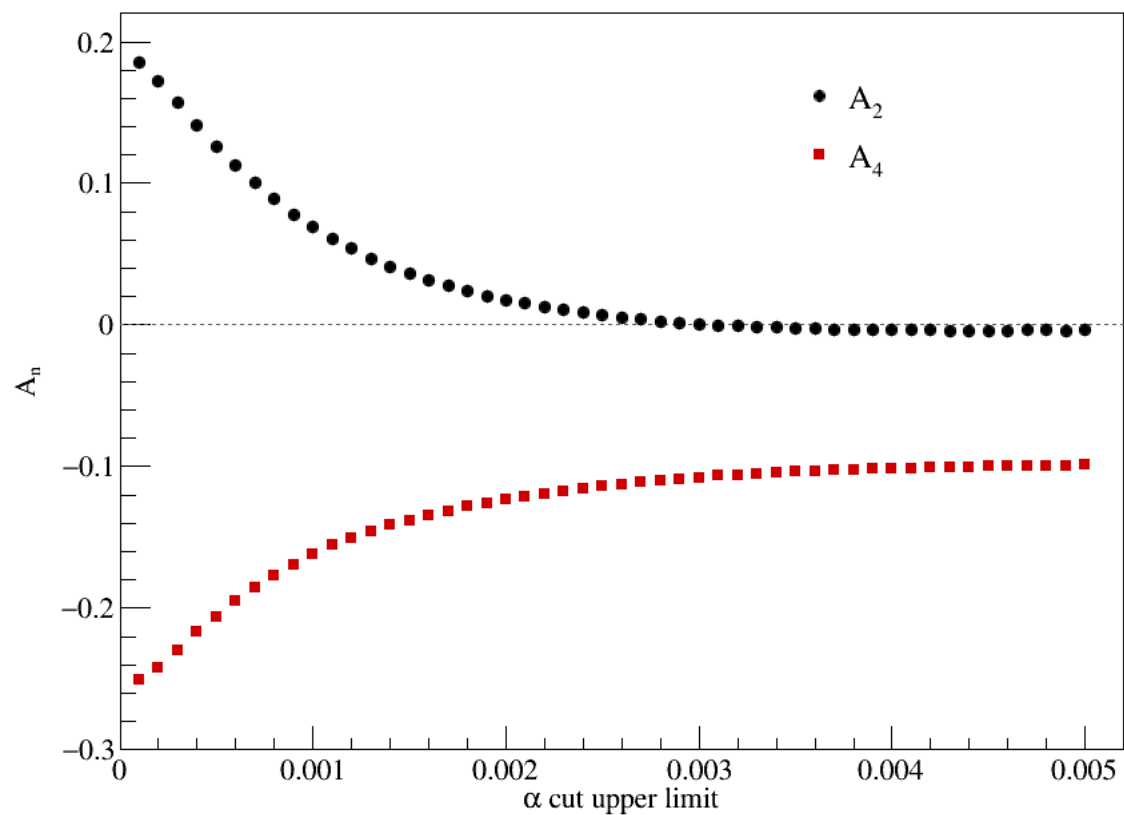


- ✓ QED calculation by Xinbai's code
- PbPb@5.36 TeV
- 40-80%
- Single muon $p > 2.5$ GeV, $pt > 3.5$ GeV, $|\eta| < 2.4$
- Di-muon $pt < 0.2$ GeV
- $\alpha < \{0.001 - 0.005\}$

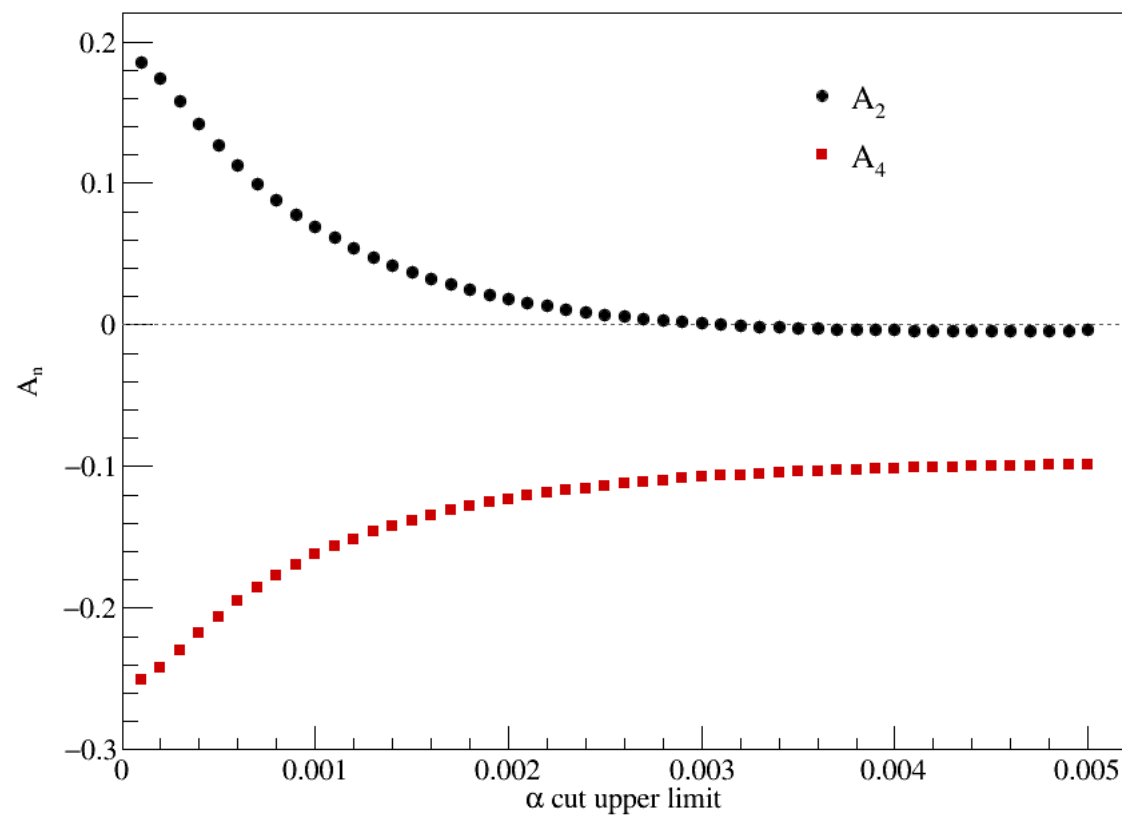




50 million VEGAS Calls



500 million VEGAS Calls





✓ Corrected Qx, Qy from 2025 data

```
process.colEvtSel = cms.Sequence(process.primaryVertexFilter * process.hiClusterCompatibility)

process.eventFilter_Q = cms.Sequence(
  process.hltFilter *
  process.unpackedTracksAndVertices *
  process.colEvtSel
)
```

process.dimuonEvtSel removed



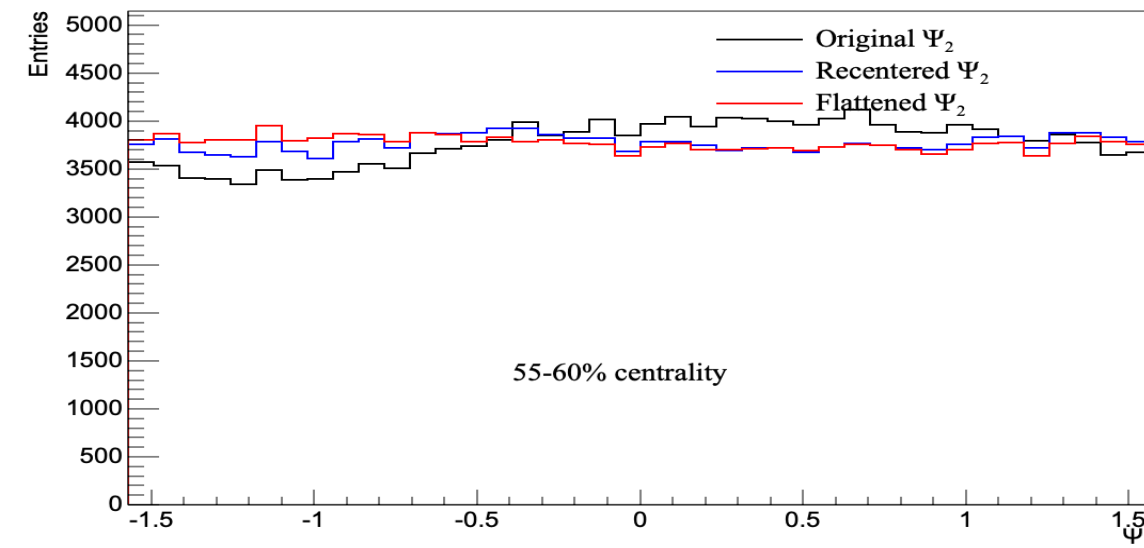
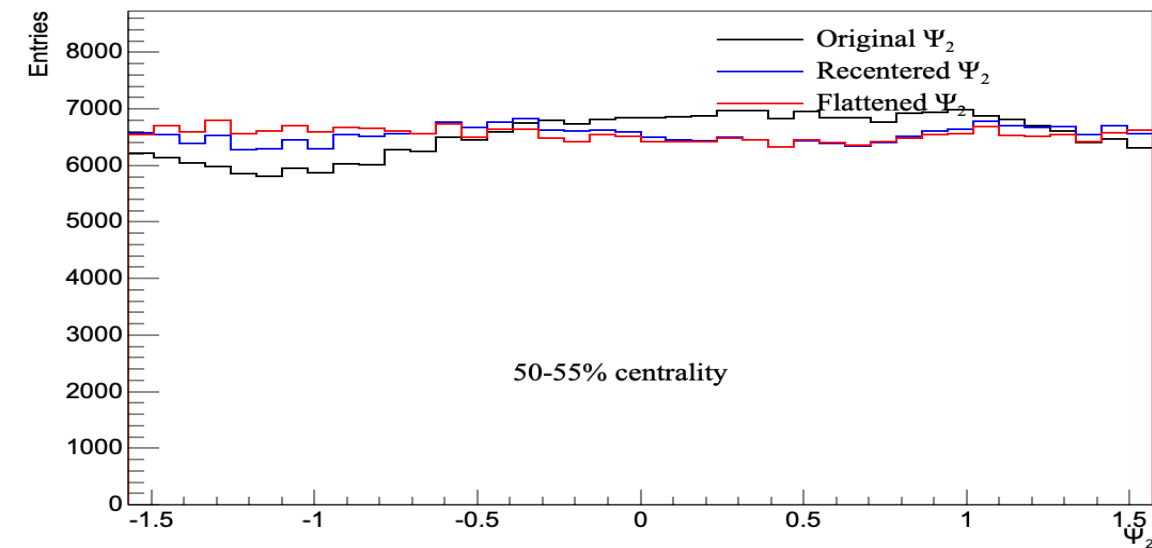
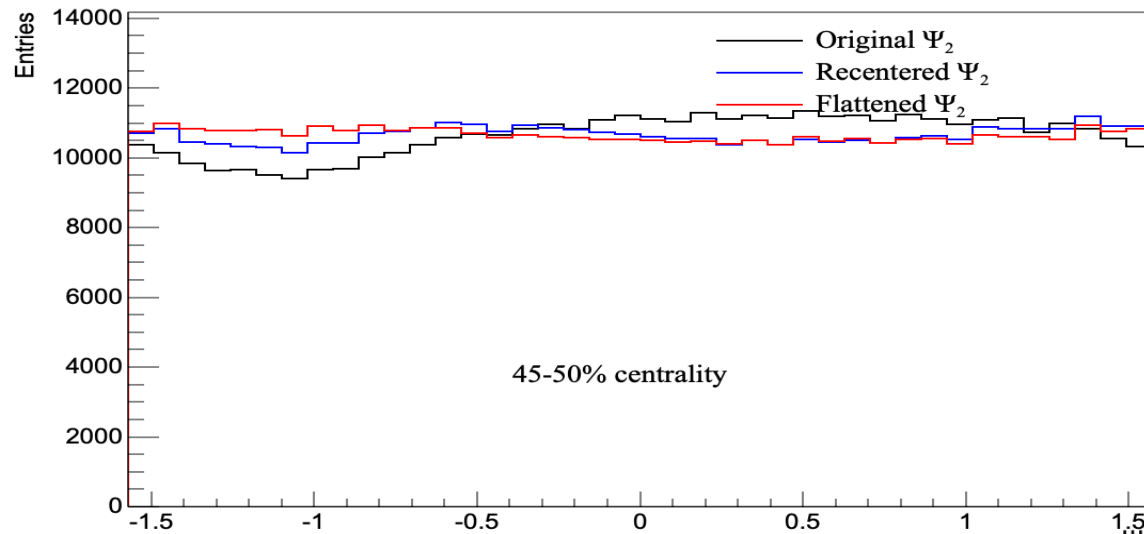
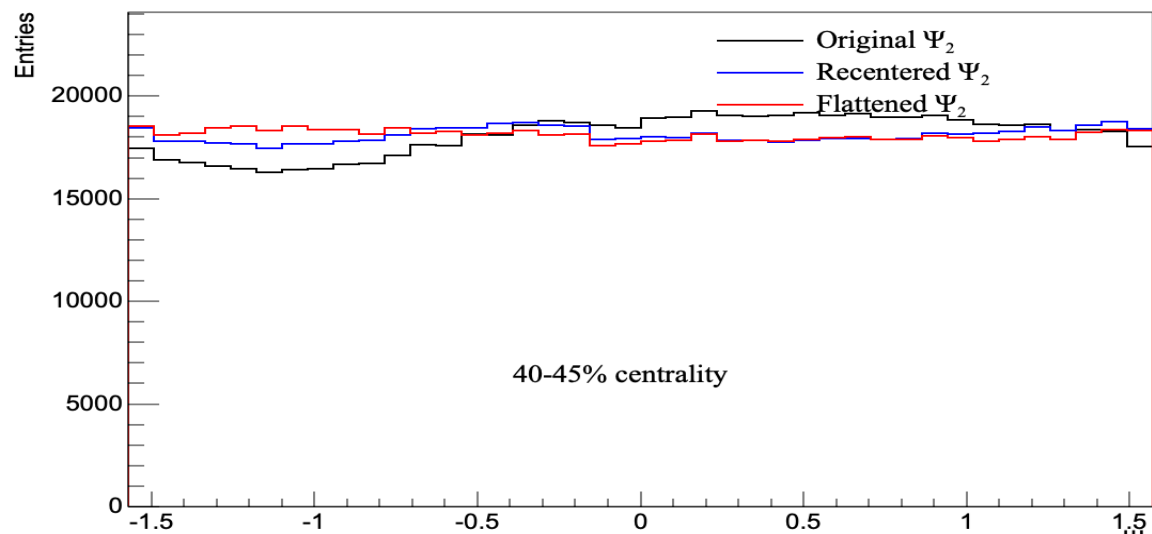
$\langle Q_x \rangle, \langle Q_y \rangle$

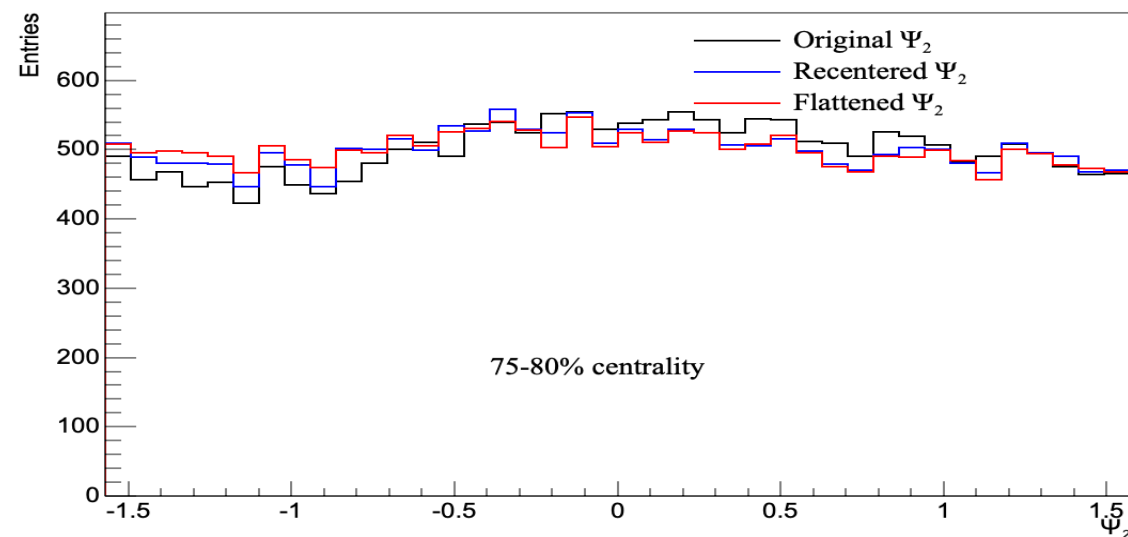
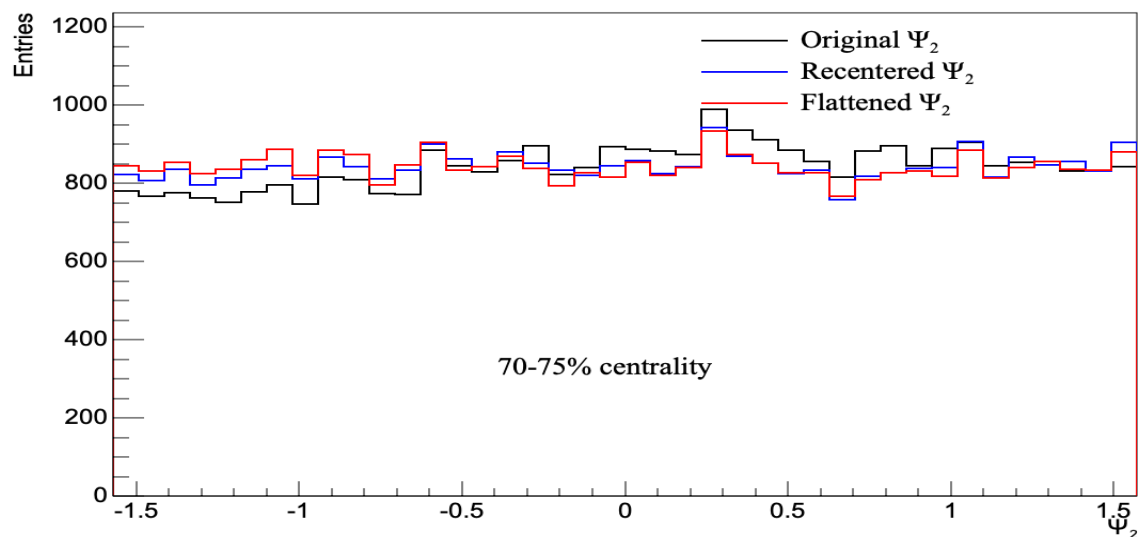
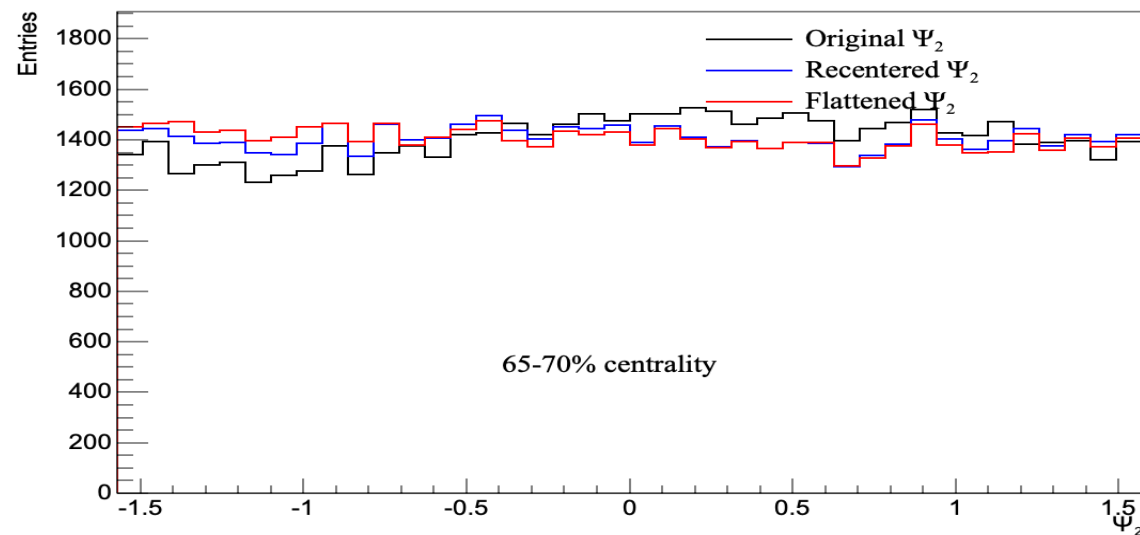
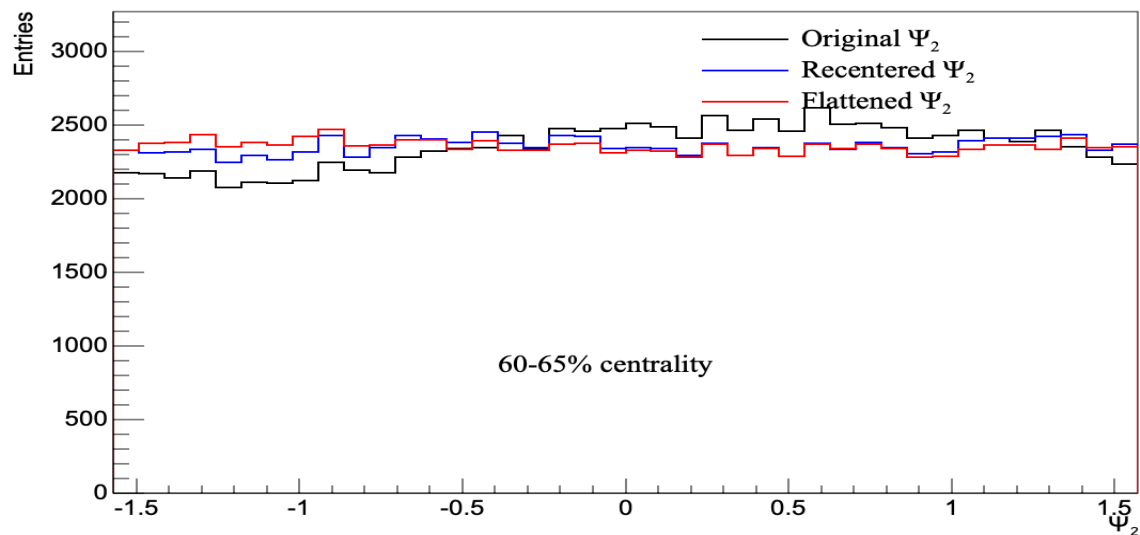
```
process.colEvtSel = cms.Sequence(process.primaryVertexFilter * process.hiClusterCompatibility)

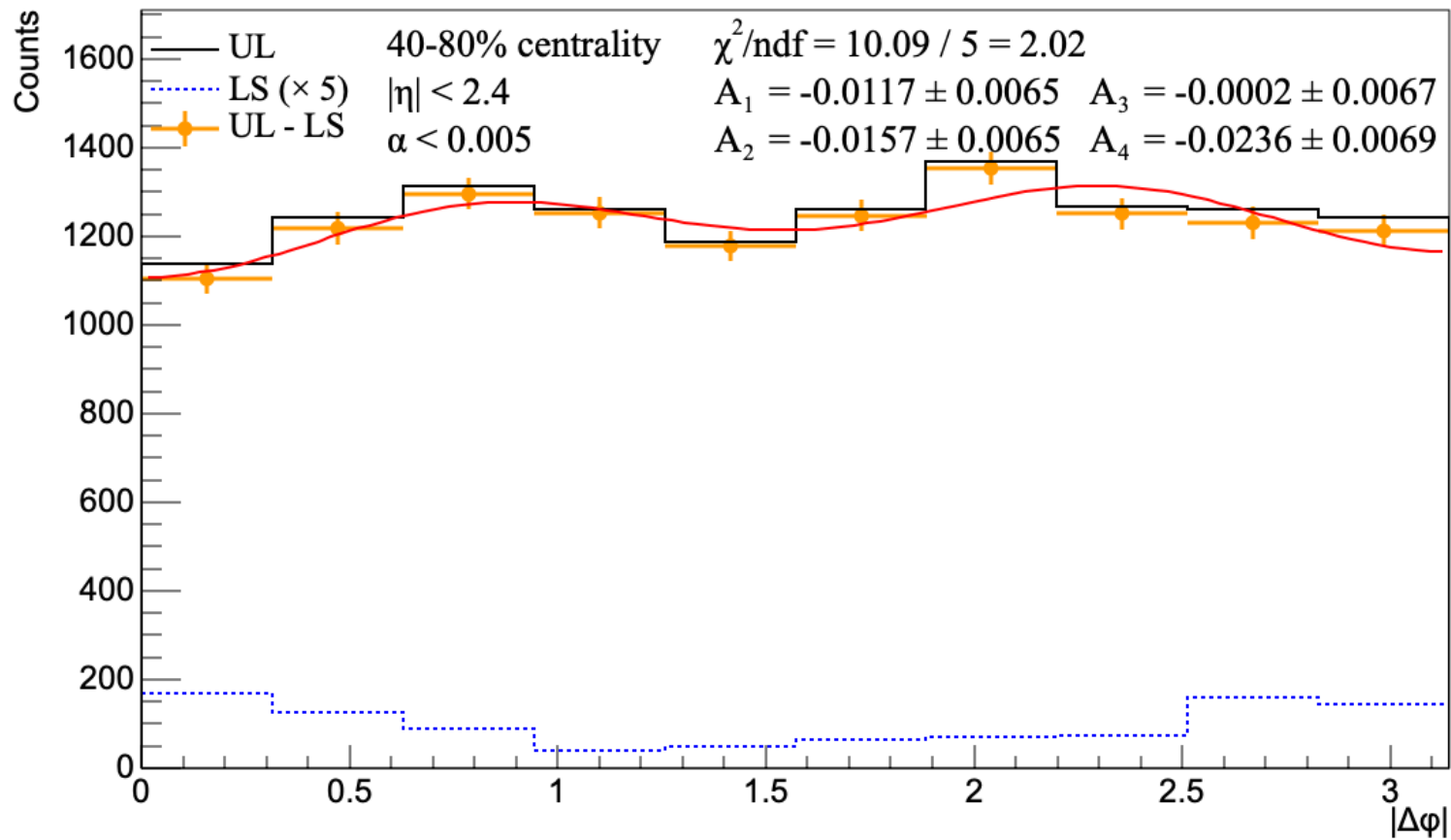
process.eventFilter_Q = cms.Sequence(
  process.hltFilter *
  process.unpackedTracksAndVertices *
  process.colEvtSel
)
```



$\langle \sin(2k\psi_2) \rangle, \langle \cos(2k\psi_2) \rangle$







3.42 sigma

