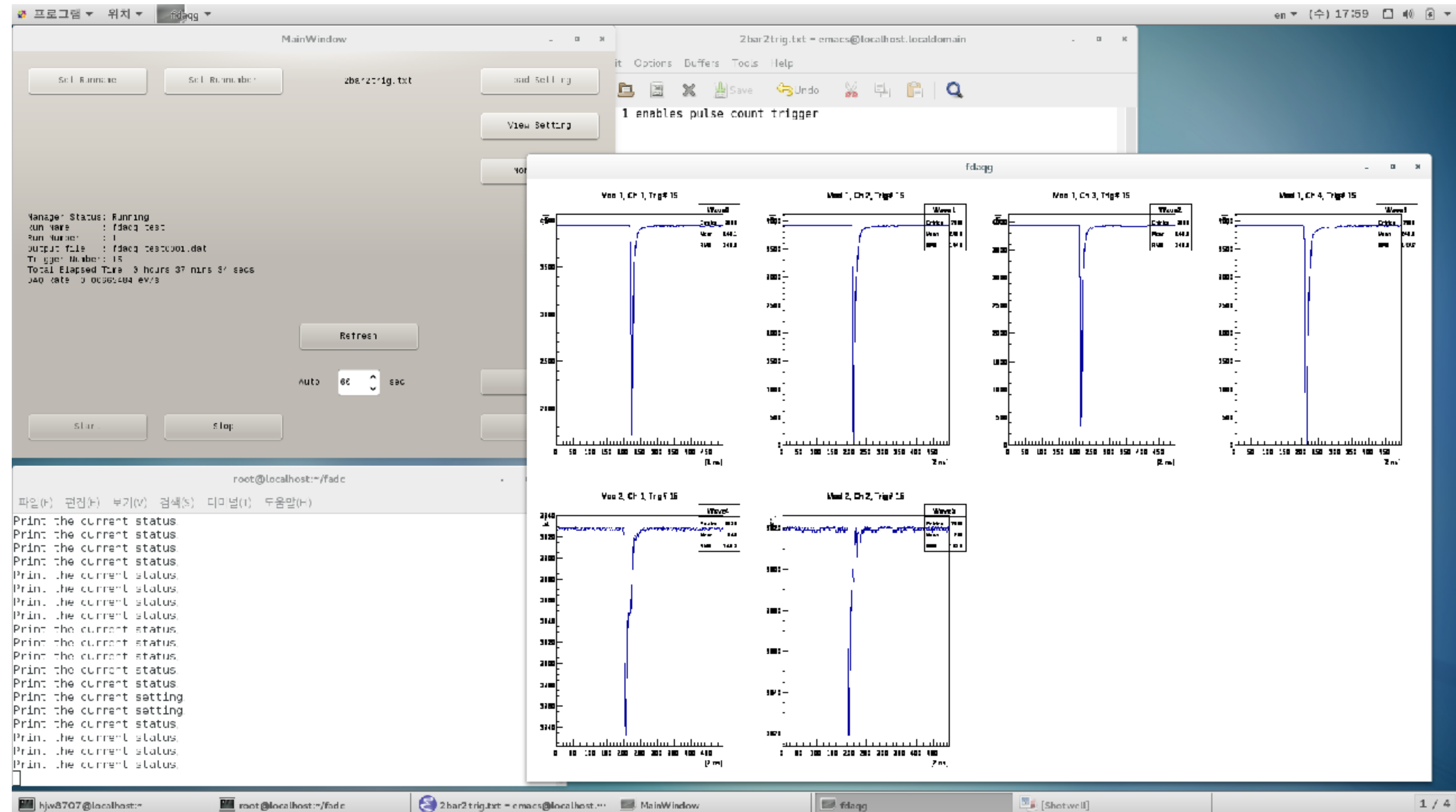


Status report (7 Nov. 2016)

Jongwon Hwang

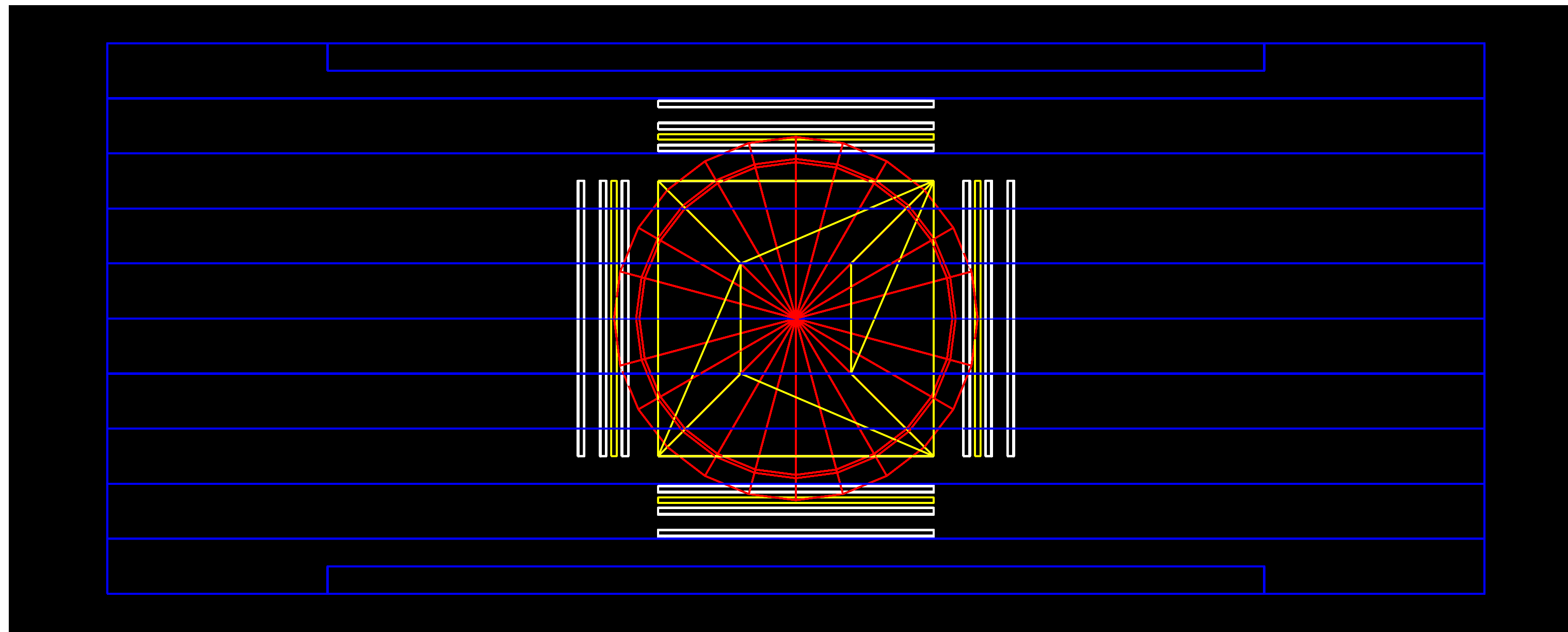
FDAQG: DAQ Program with GUI

- fdaqg:
 - GUI (Using Qt4 library)
 - Working well
 - Having almost same functions as 'fdaq'

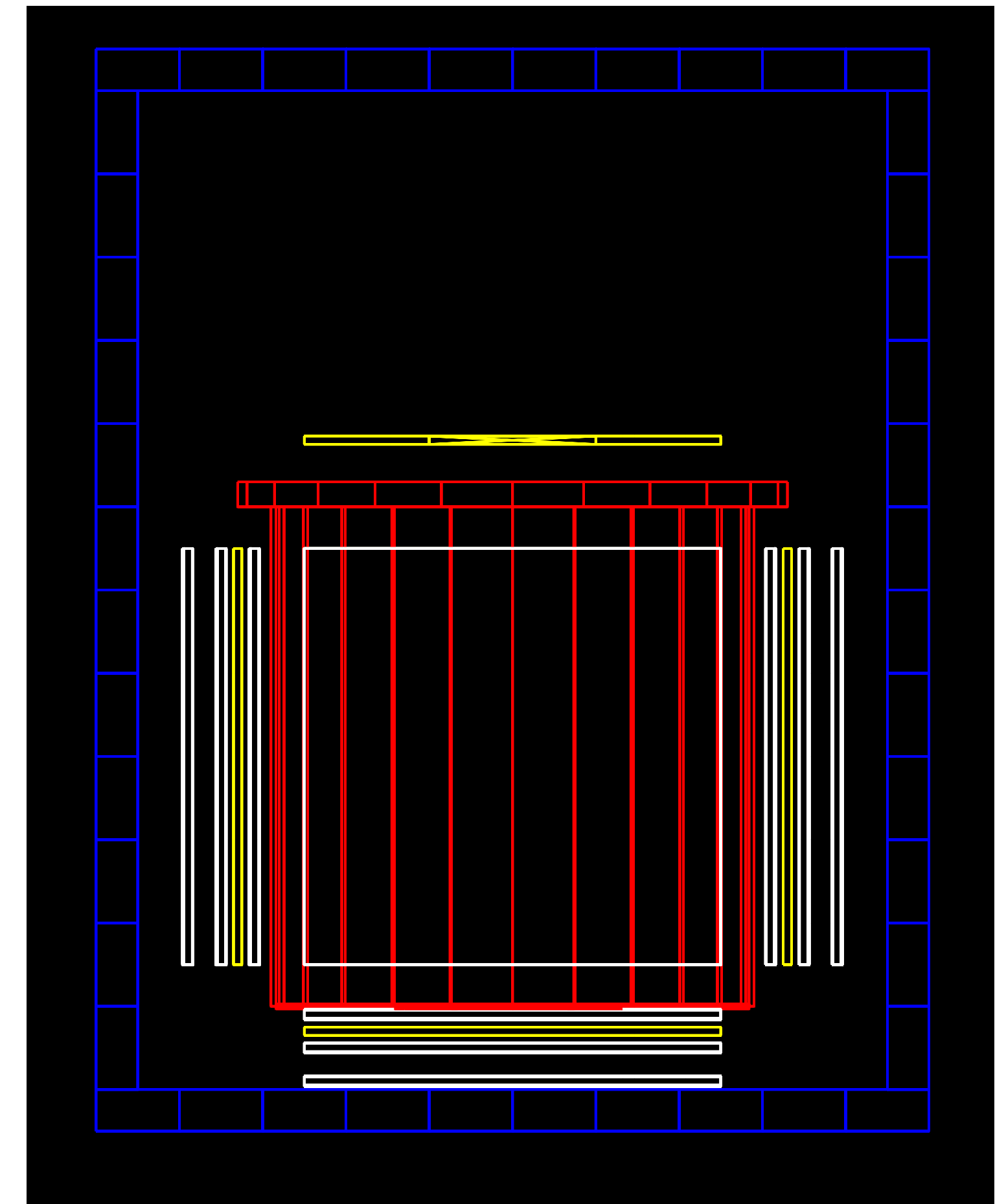


Simulation Geometry

Vertical axis: $Y \rightarrow Z$



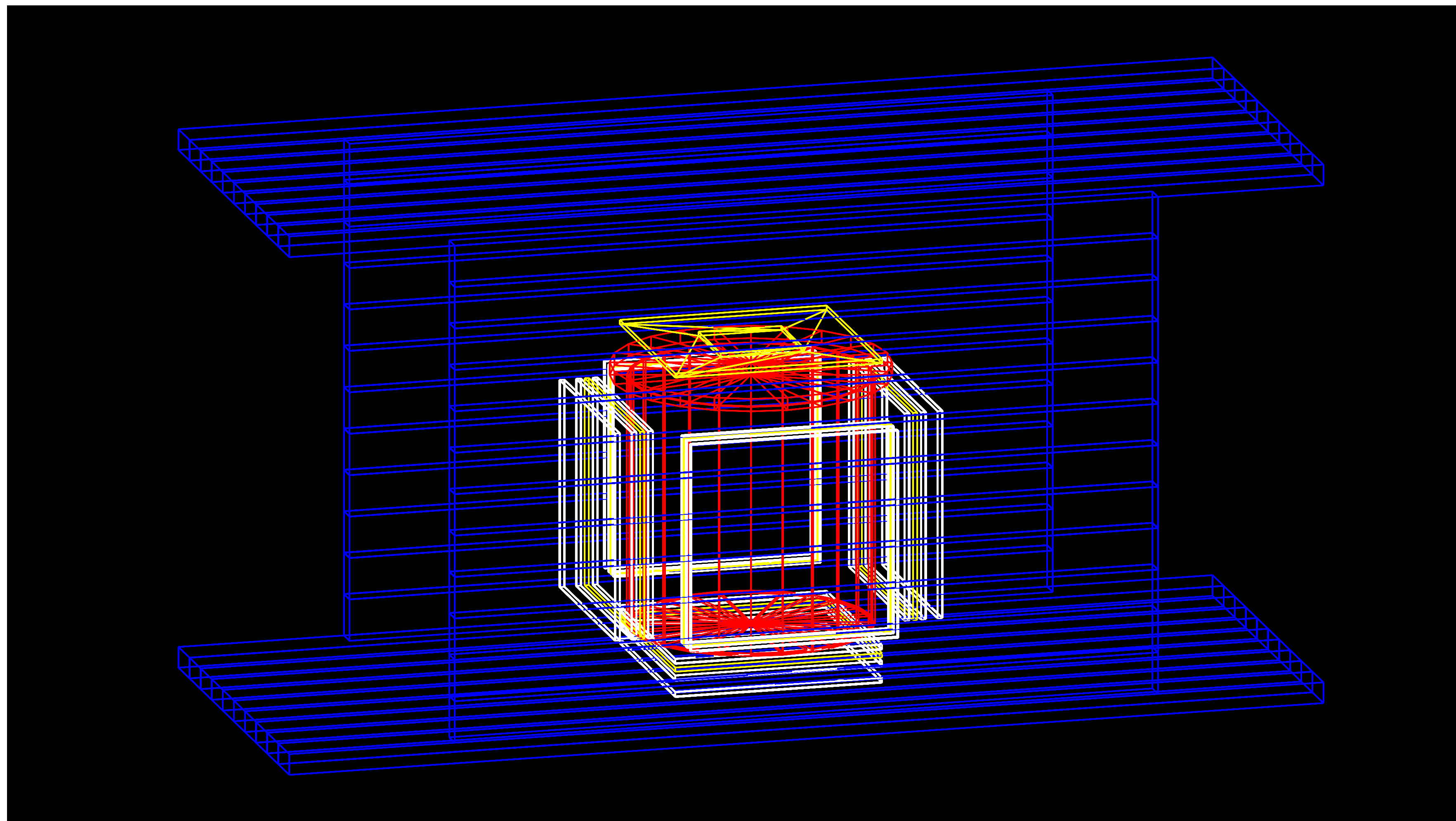
Top View



Side View

Red: free-fall chamber / Blue: TOF detector / White: MicroMegs

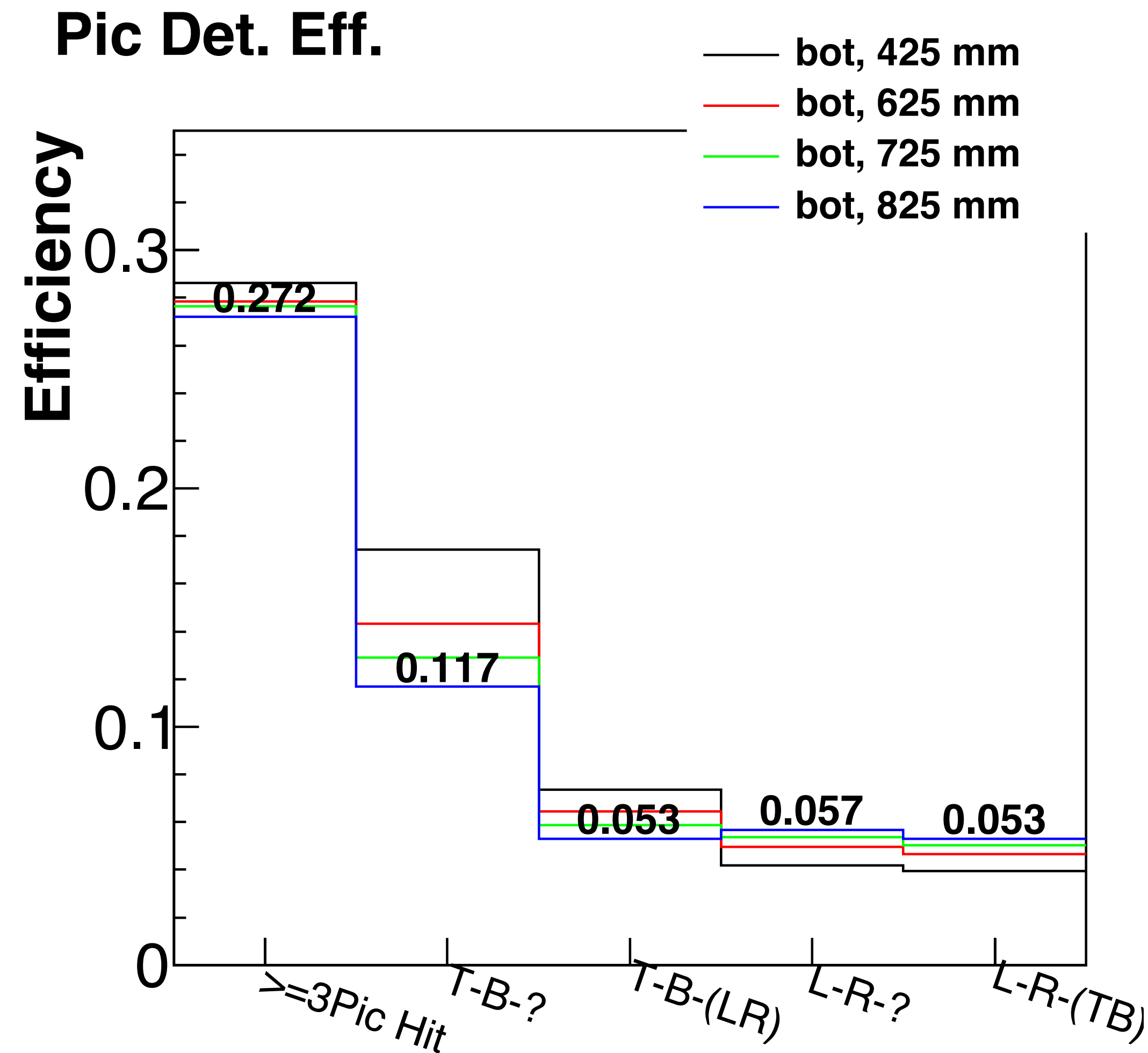
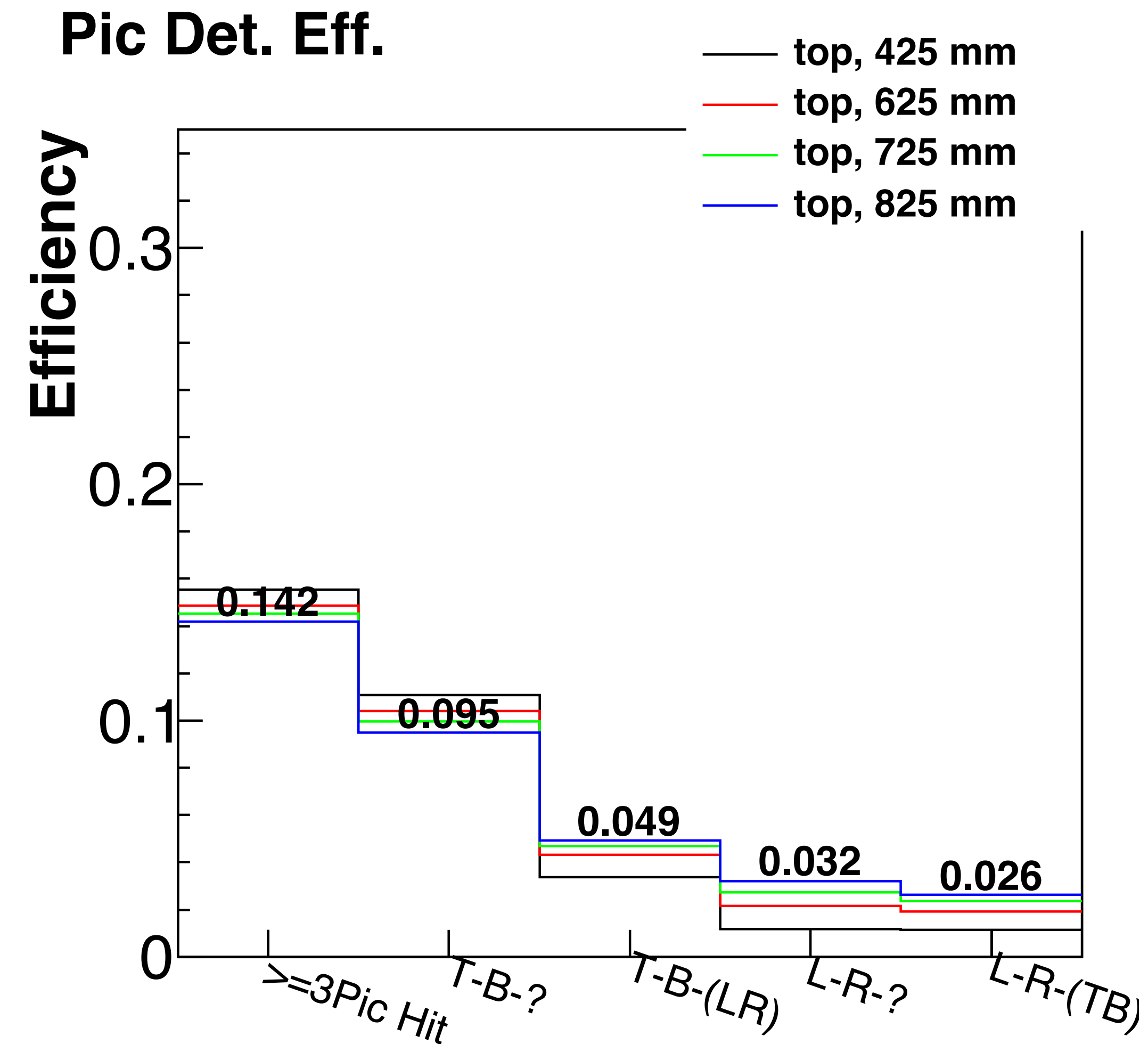
Simulation Geometry



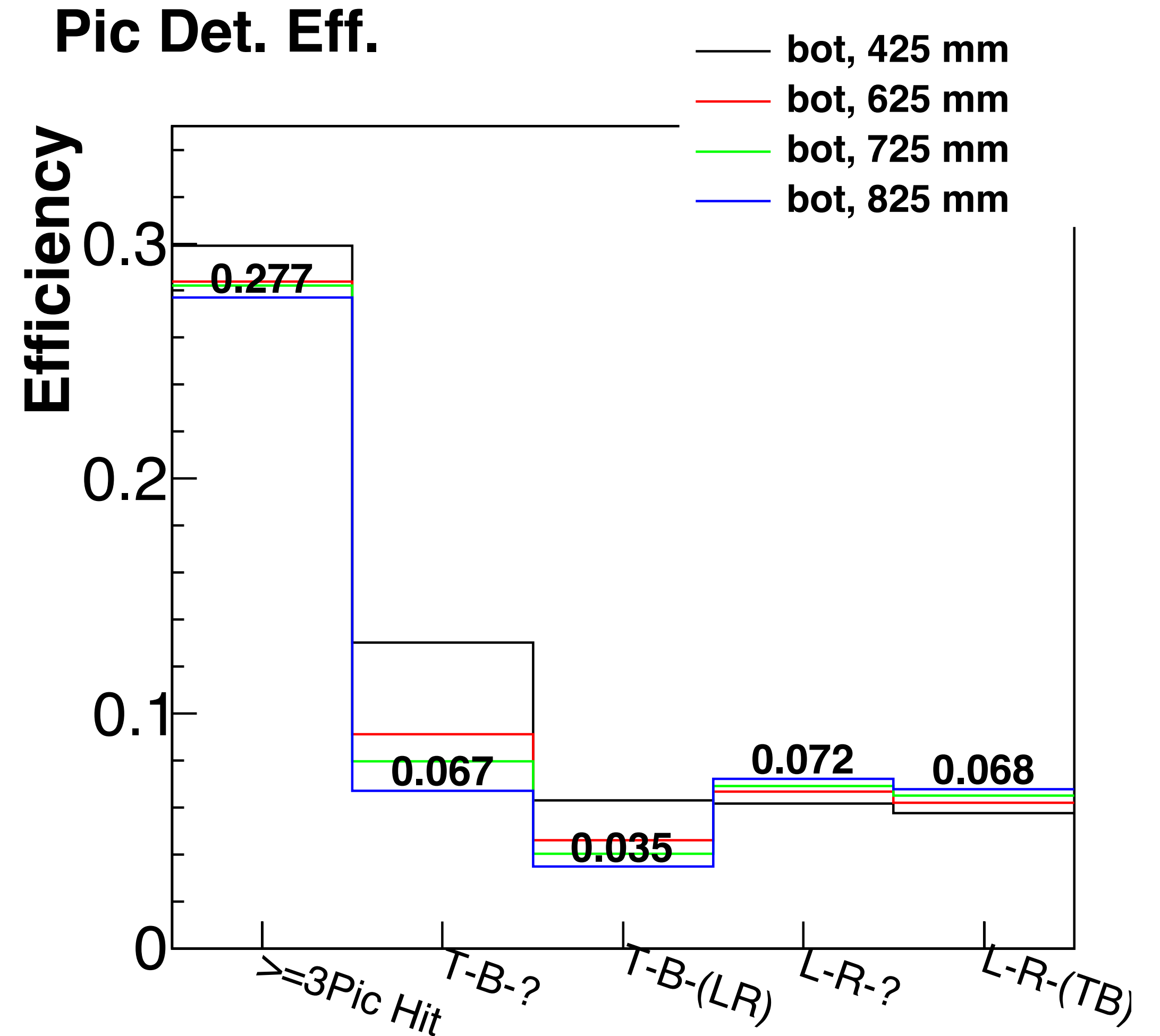
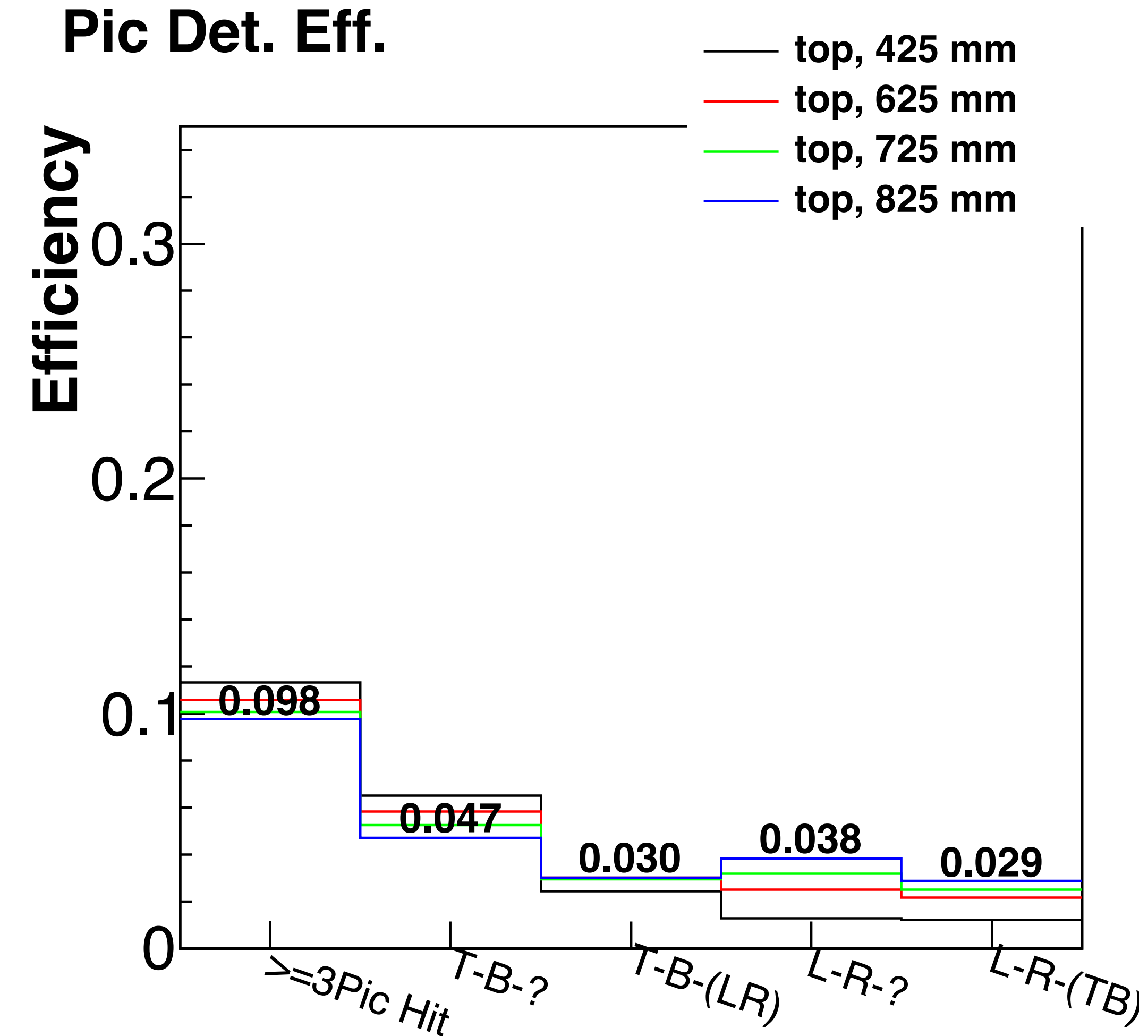
Quarter View

Red: free-fall chamber / Blue: TOF detector / White: MicroMegas

3-Pic Detection Efficiency (New Geometry)

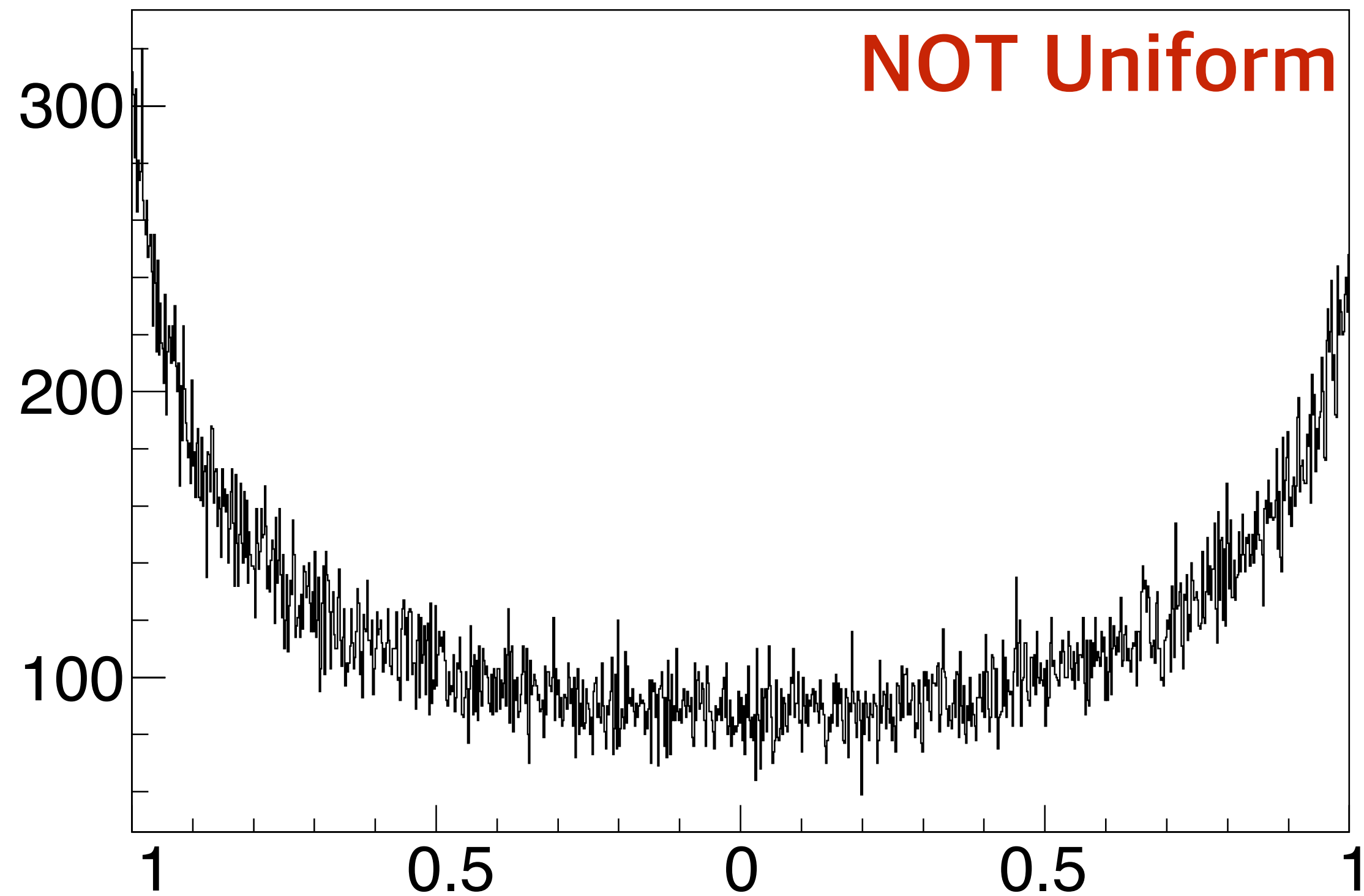


3-Pic Detection Efficiency (Old Geometry, 250 cm-TB)

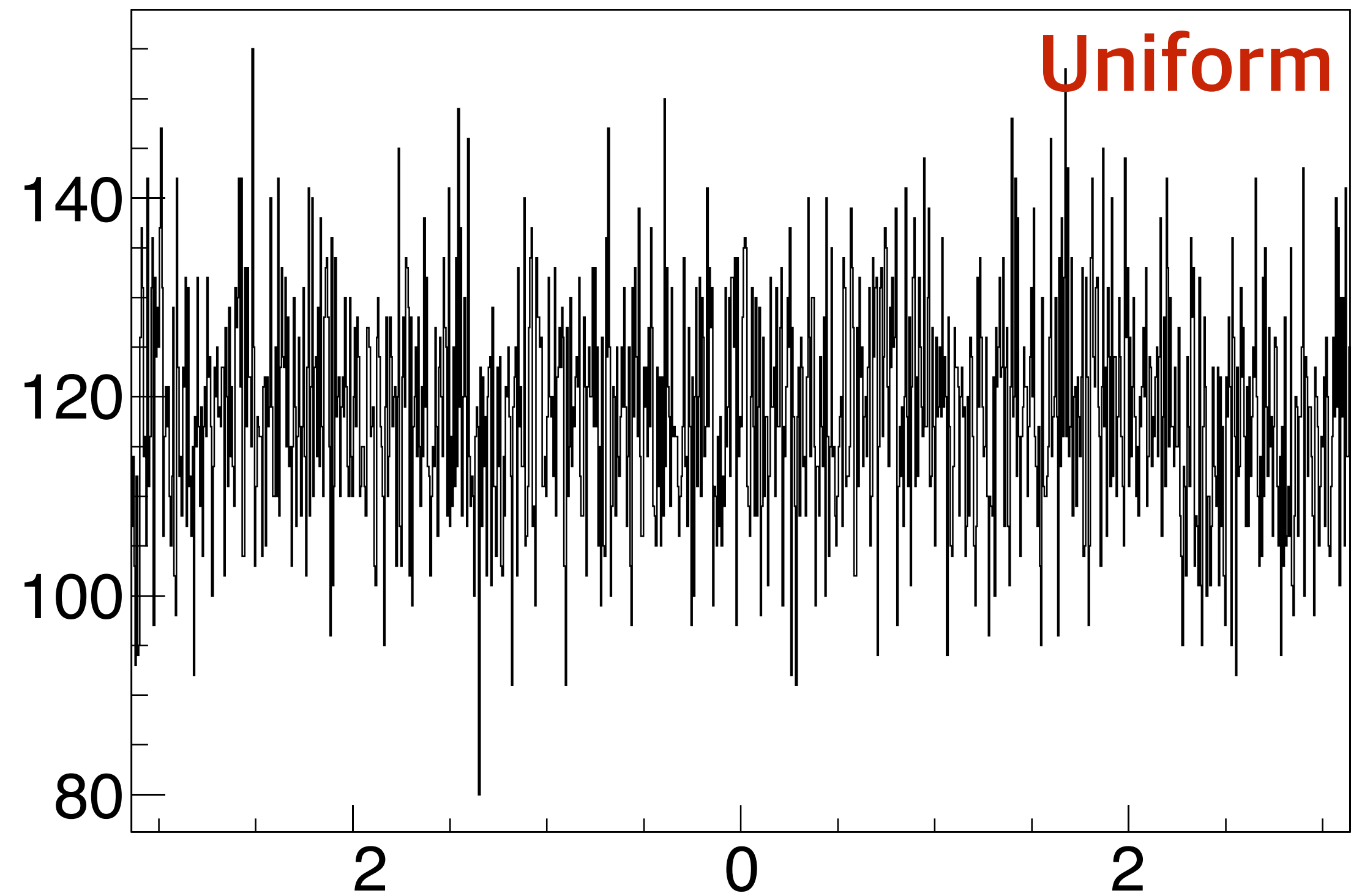


Angular Distribution of Charged Pion

Pic Cos Theta



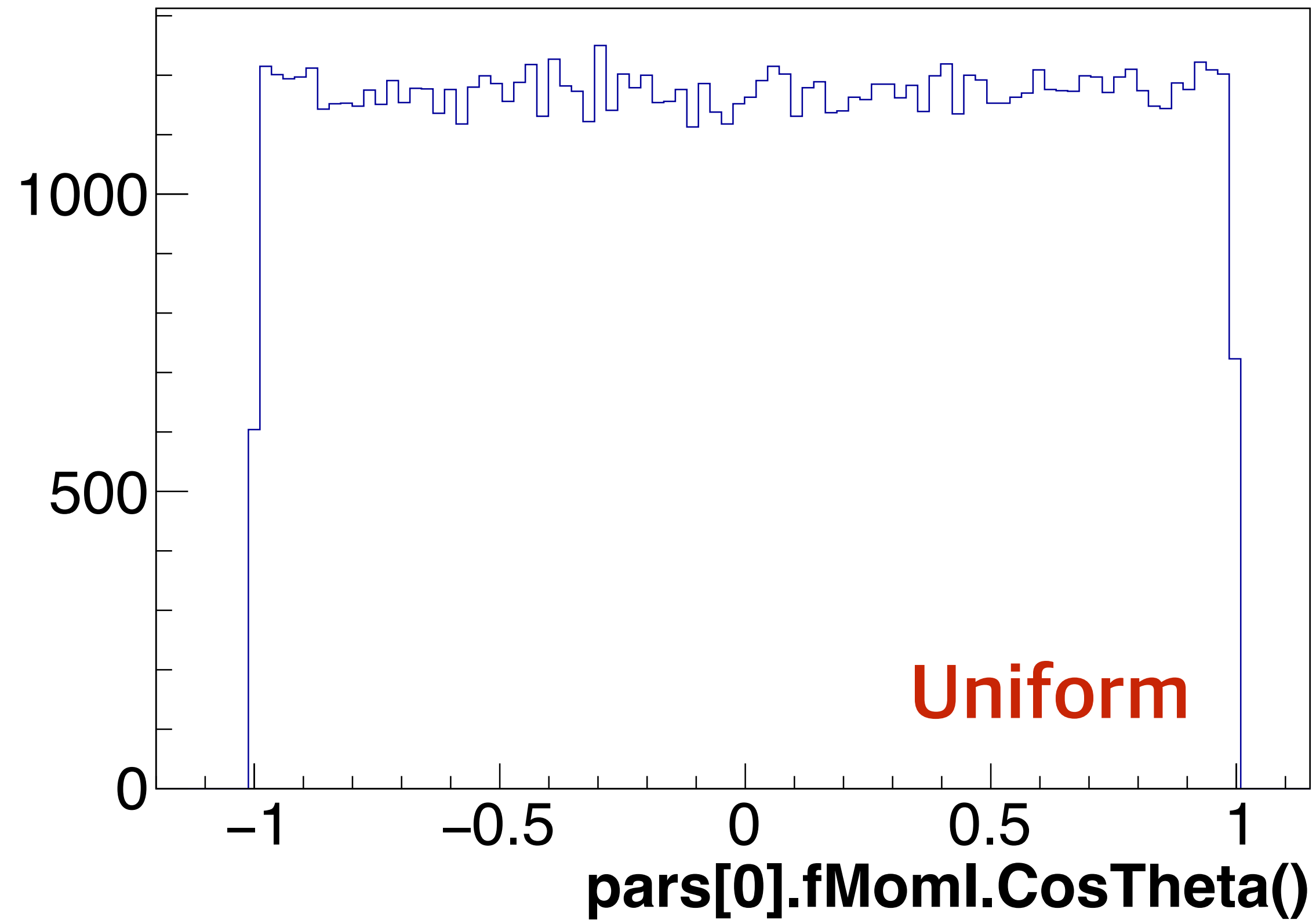
Pic Phi



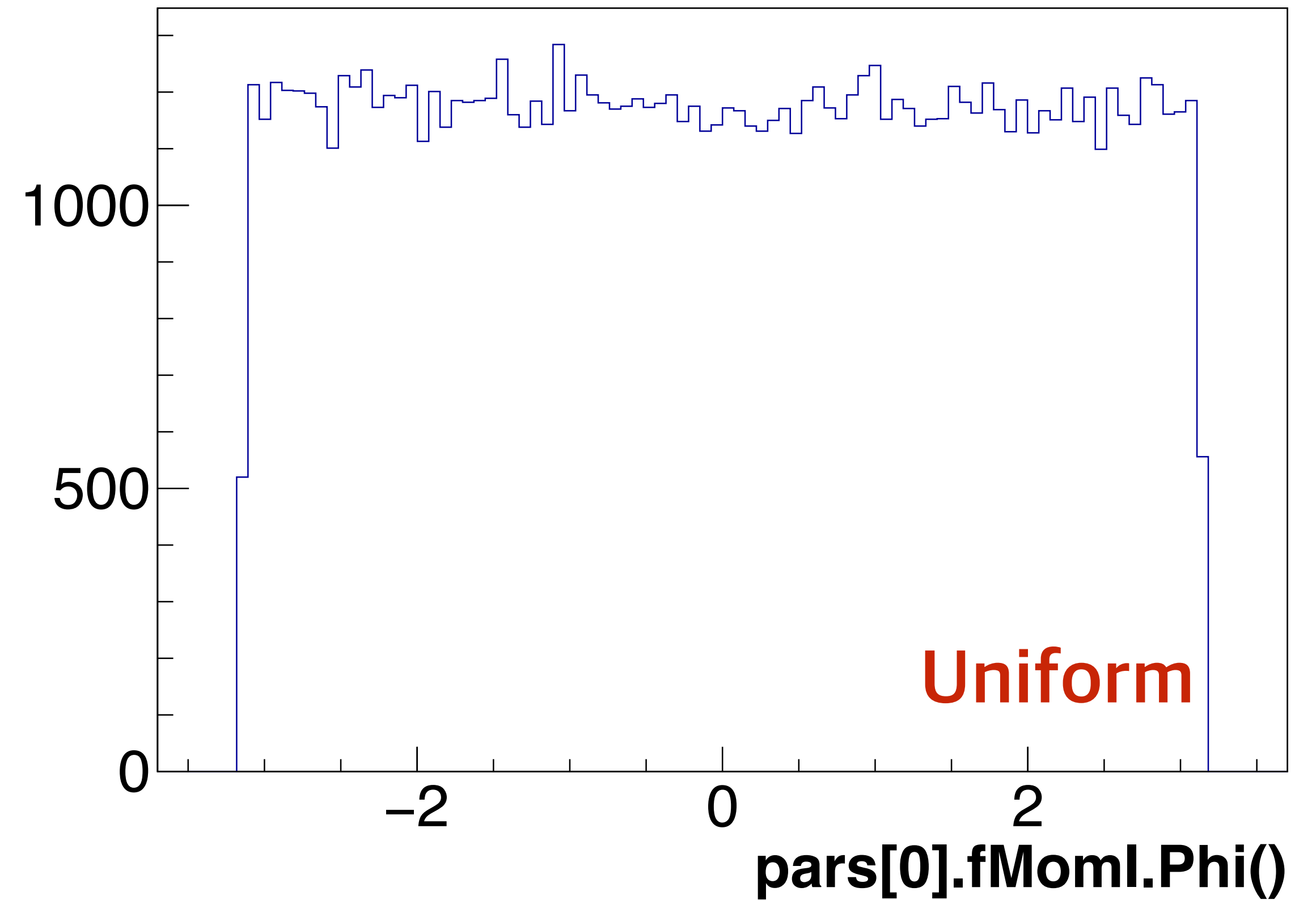
Both should be UNIFORM if the distribution is isotropic.

Isotropic Angular Distribution

`pars[0].fMoml.CosTheta()`



`pars[0].fMoml.Phi()`



Problem in Simulation

- Problem: Huge change of detection efficiency after modifying geometry (esp. change of the orientation: $Y \rightarrow Z$)
- Origin: Anisotropic distribution of secondary pions
- Solution: