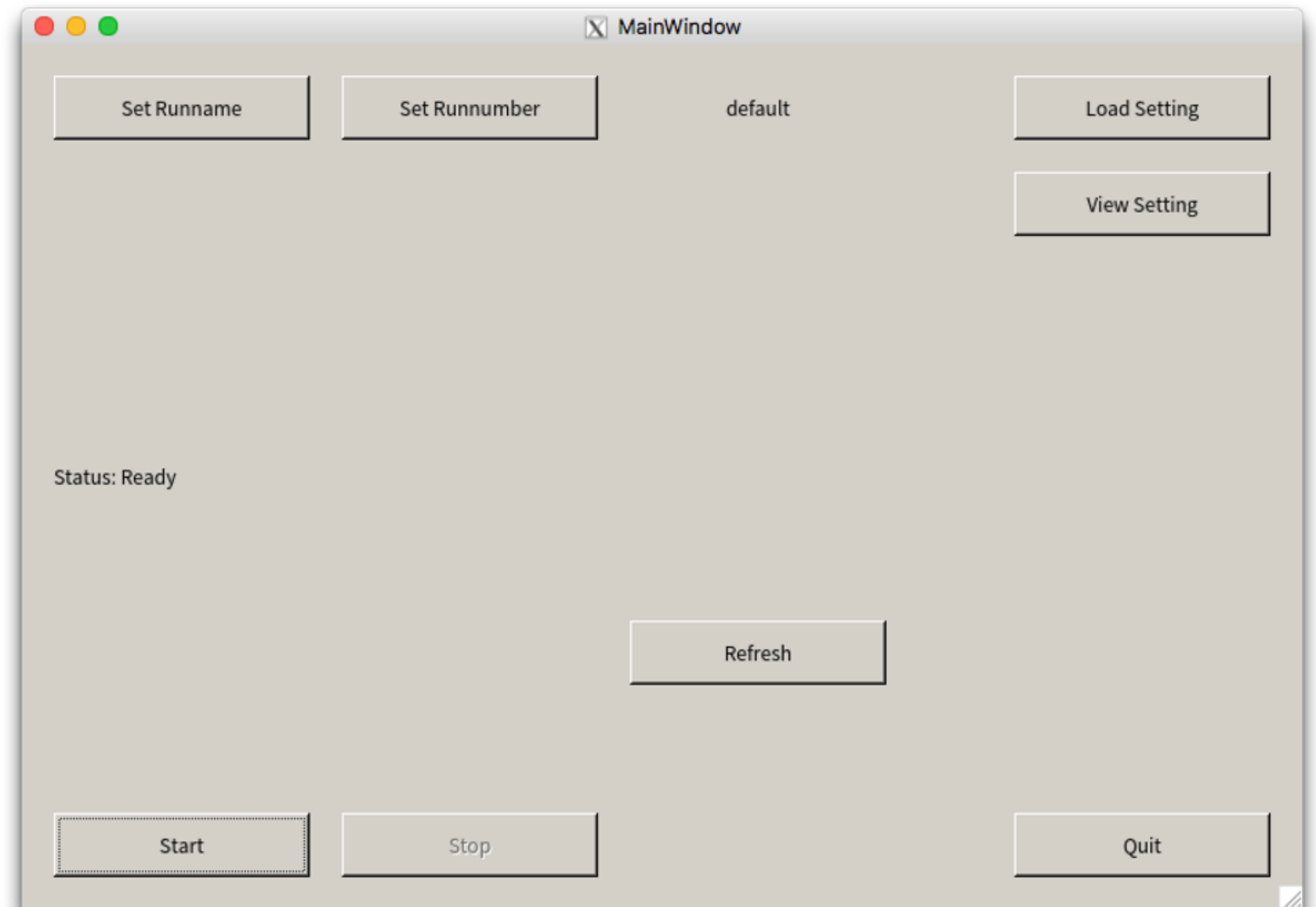


Status report (10 Oct. 2016)

Jongwon Hwang

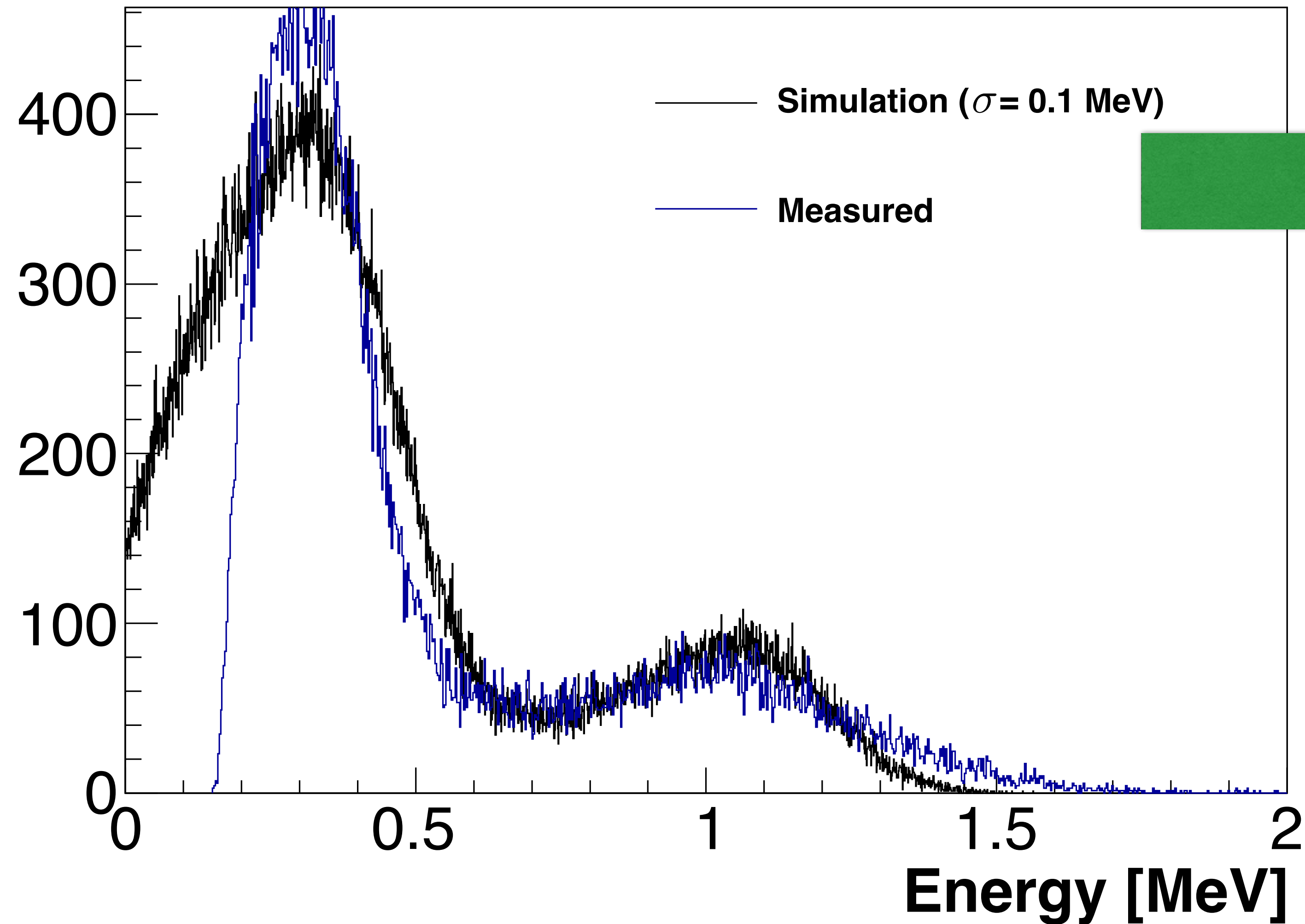
DAQ: Developing GUI System

- **fdaq** (FADC DAQ)
 - Using Qt4 library
 - Being developed
- Modified ender
 - Add the field for the event number



DAQ: ^{22}Na Source

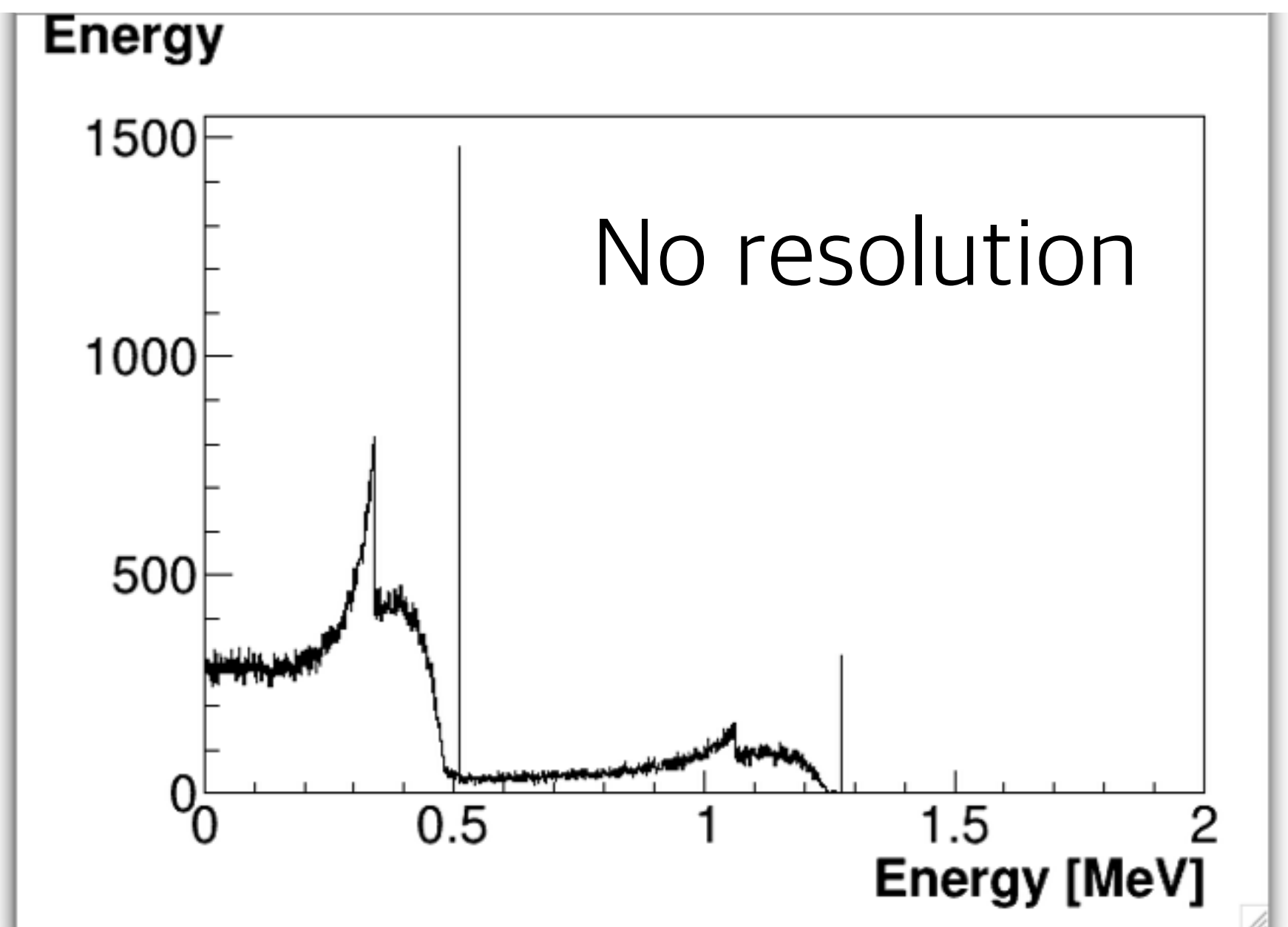
Energy



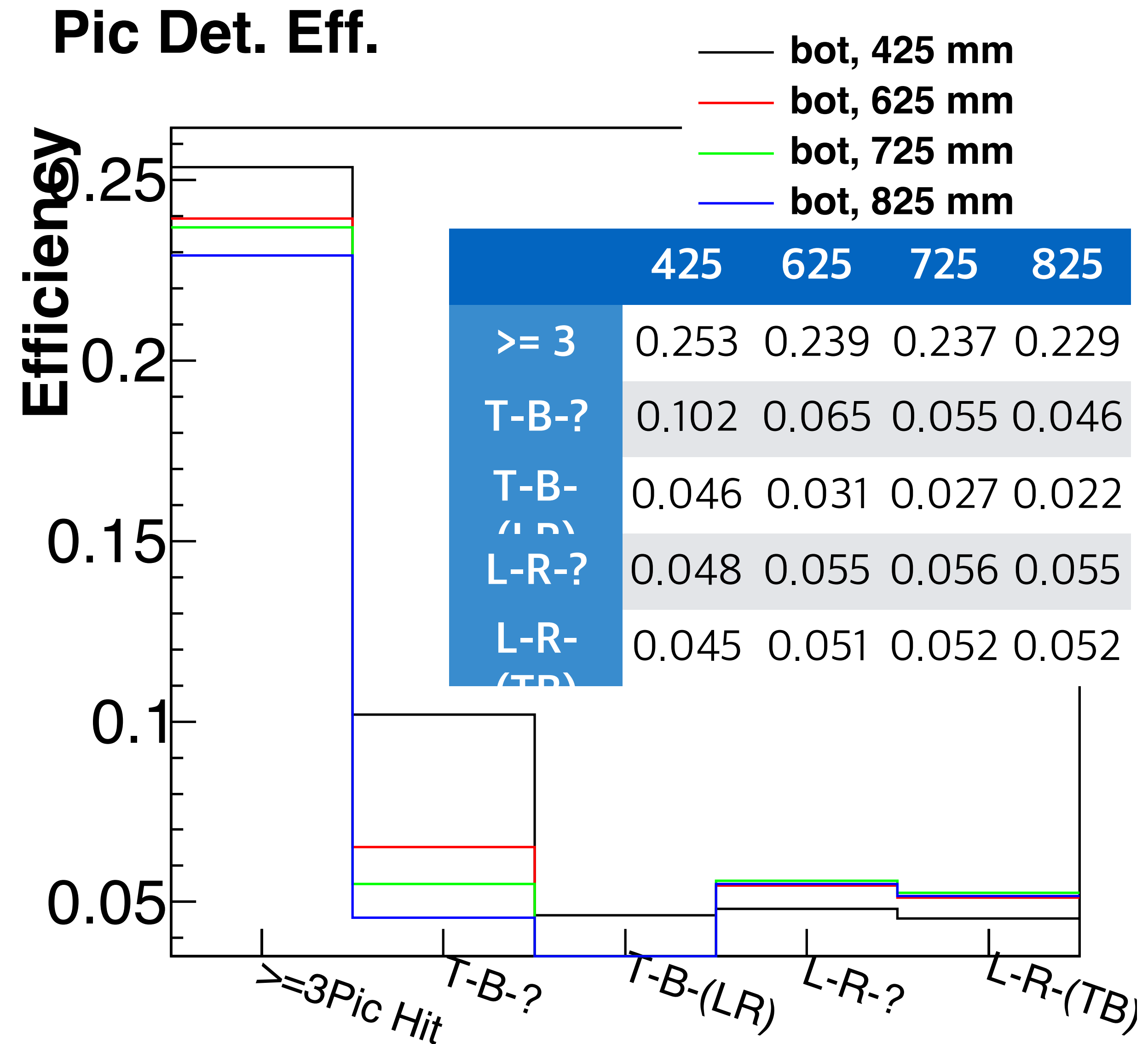
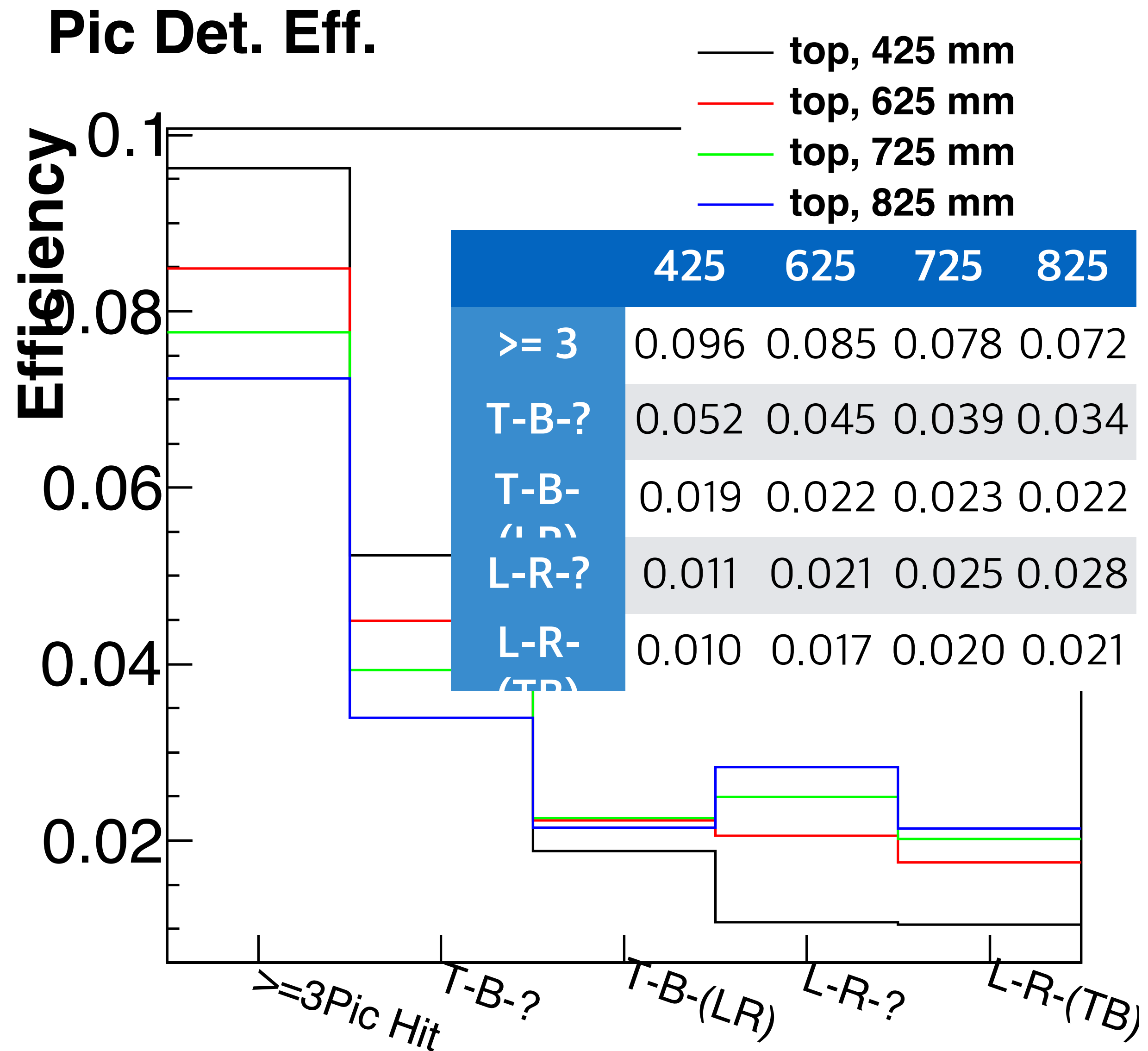
^{22}Na



Plastic Scintillator

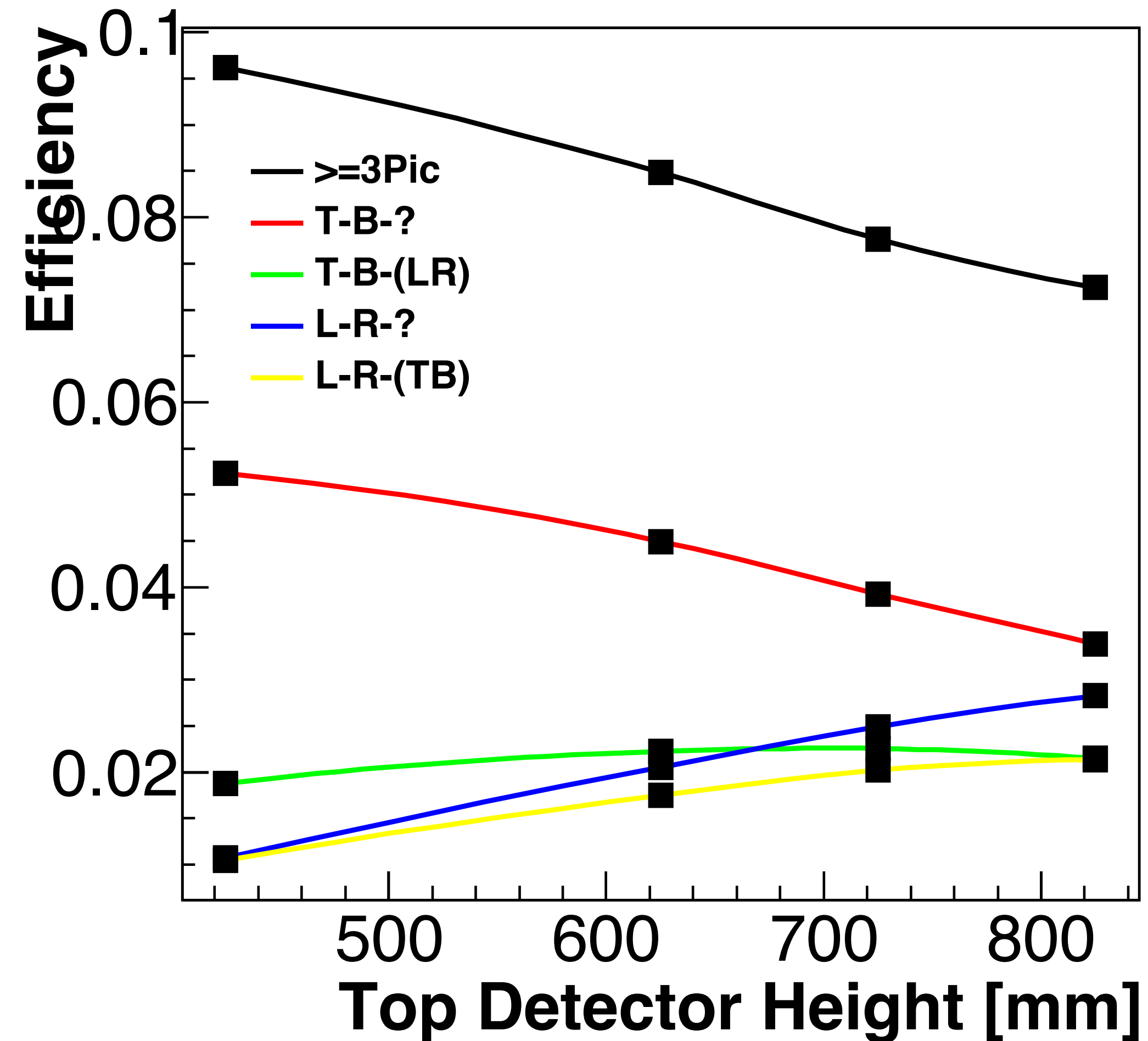


Detection Efficiency

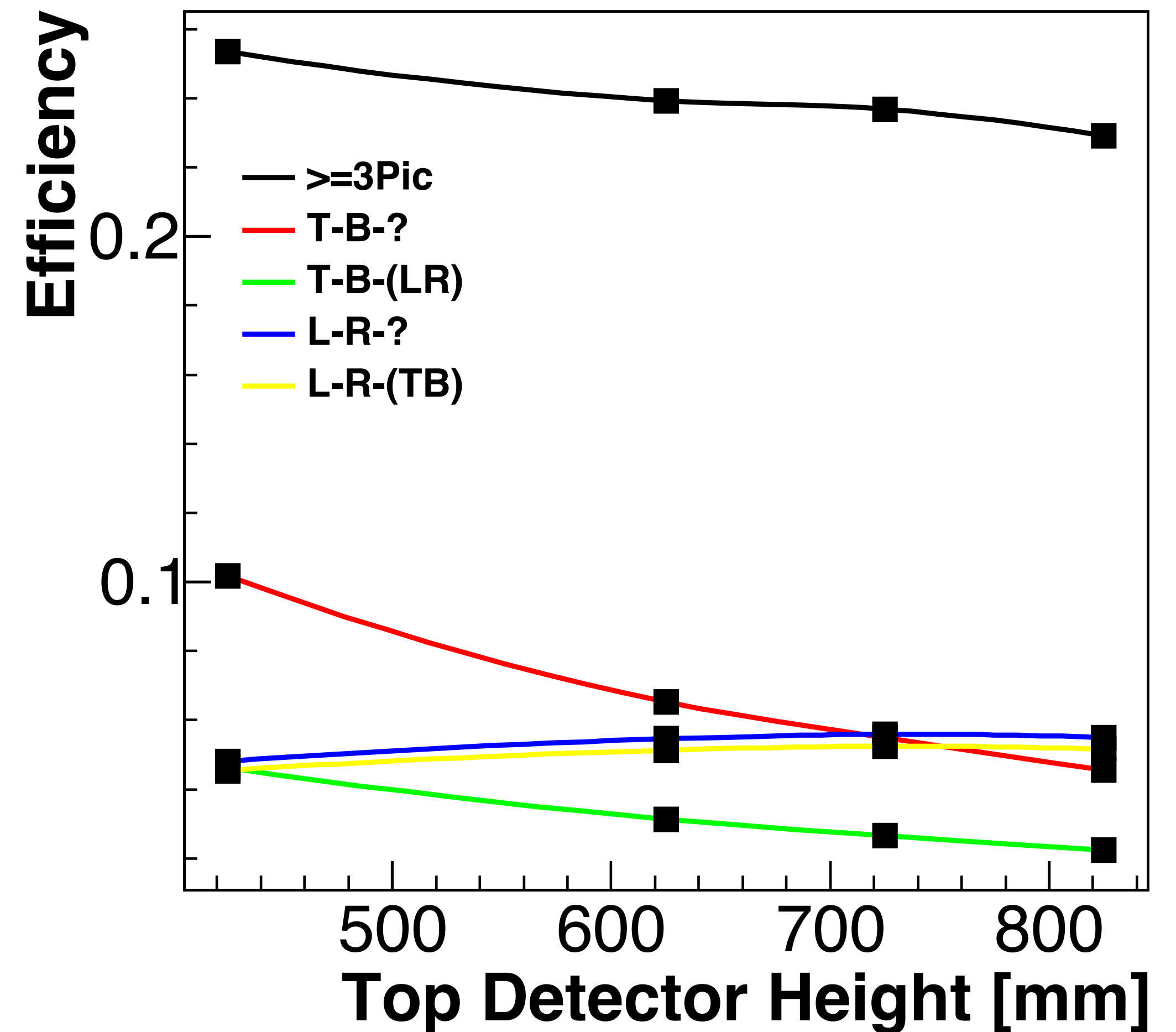


Top Detector Height Dependence

Pic Eff. (Top)



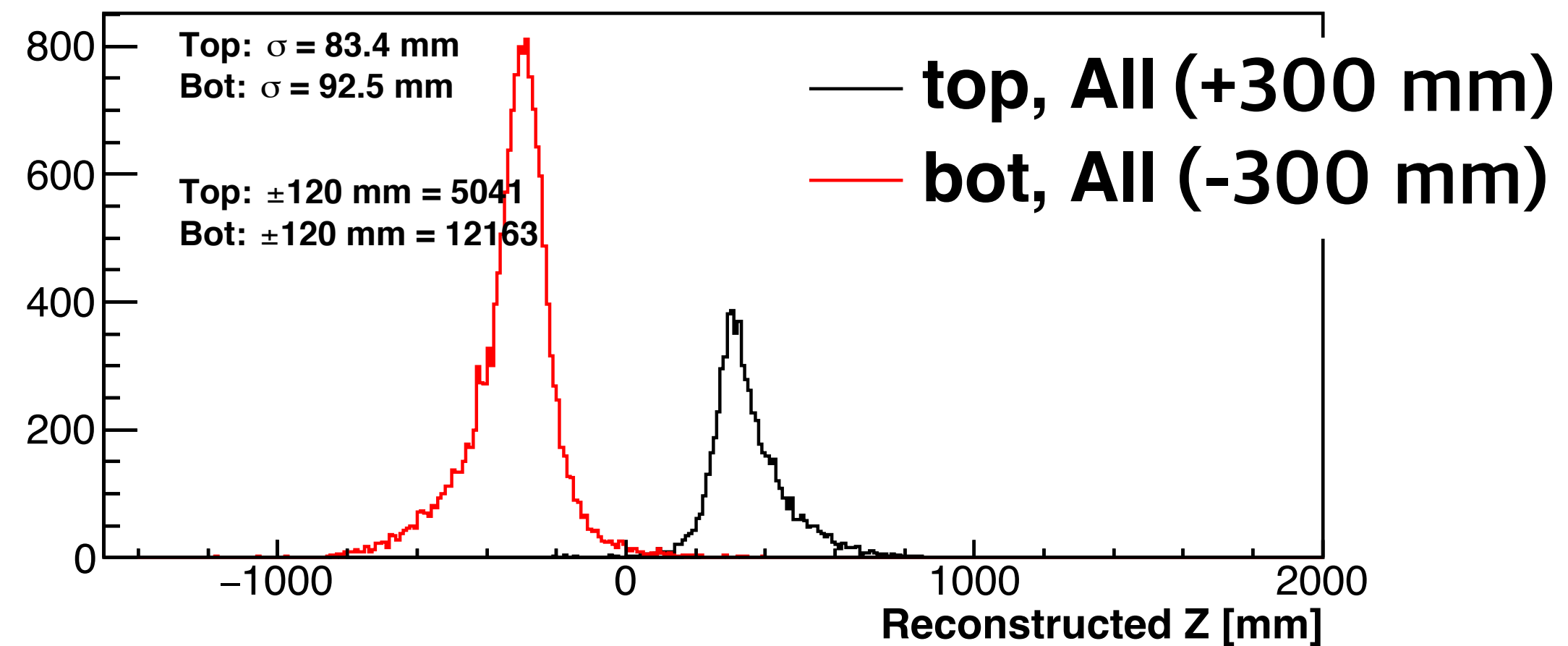
Pic Eff. (Top)



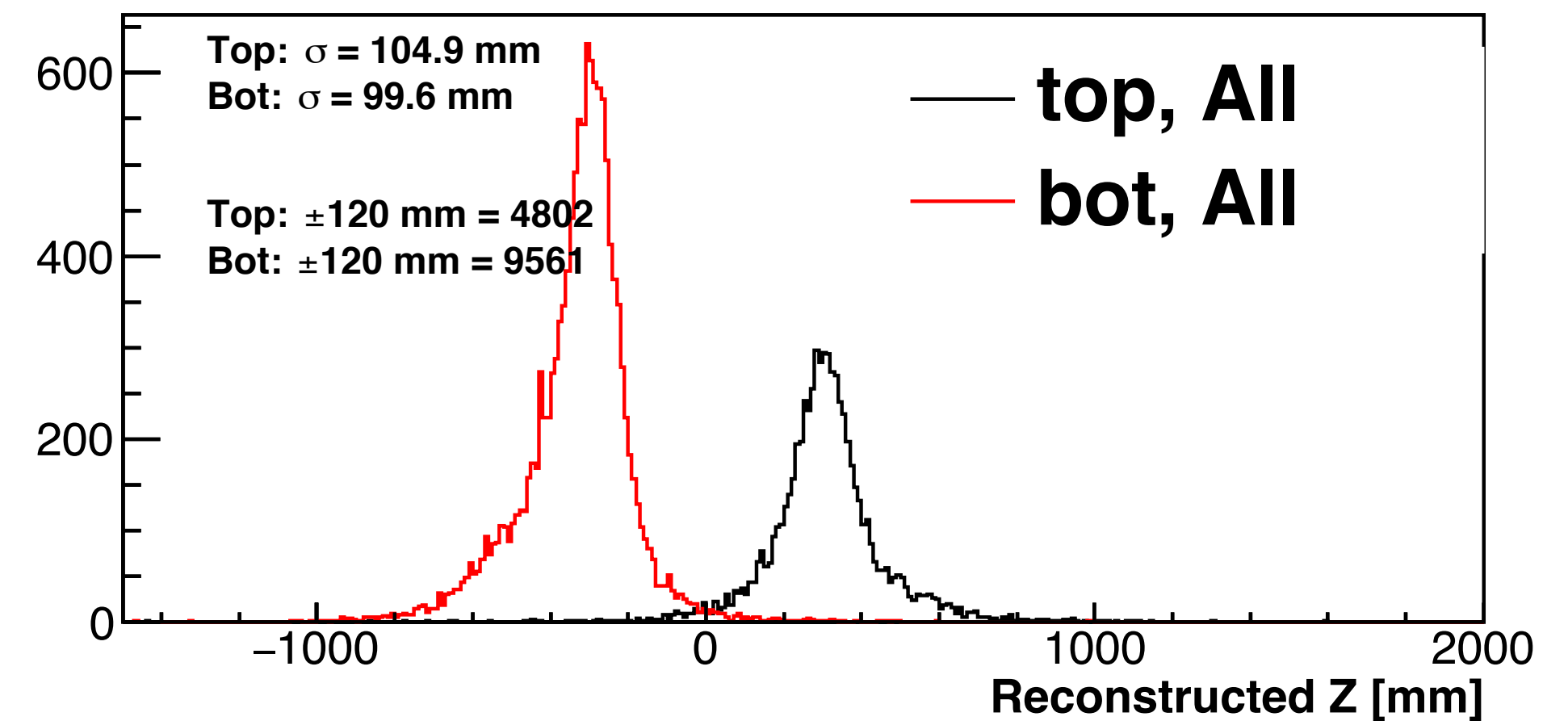
Annihilation Vertex Reconstruction

- At least, **3 Charged Pions** with Top-Bottom-? / Left-Right-? Combination

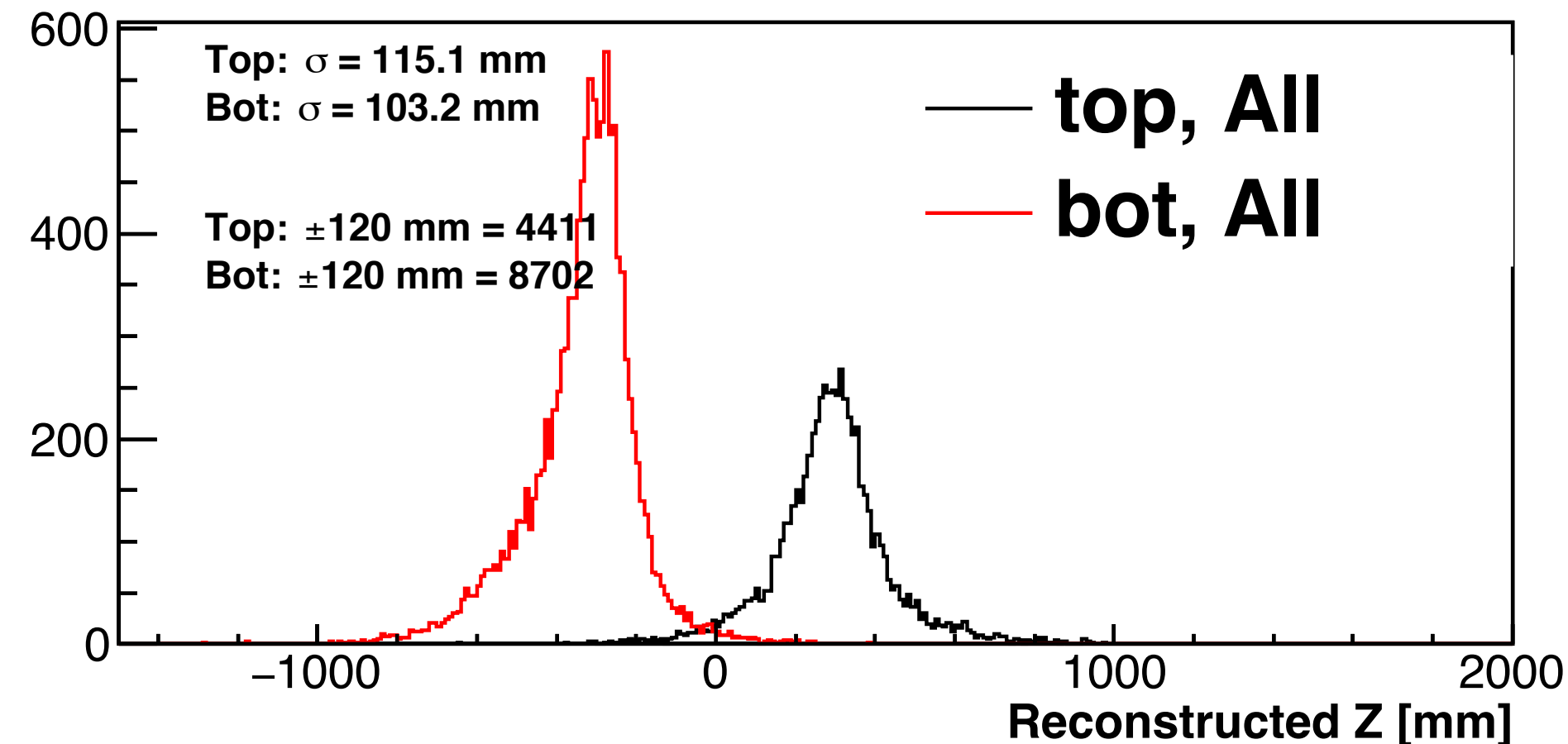
425 mm



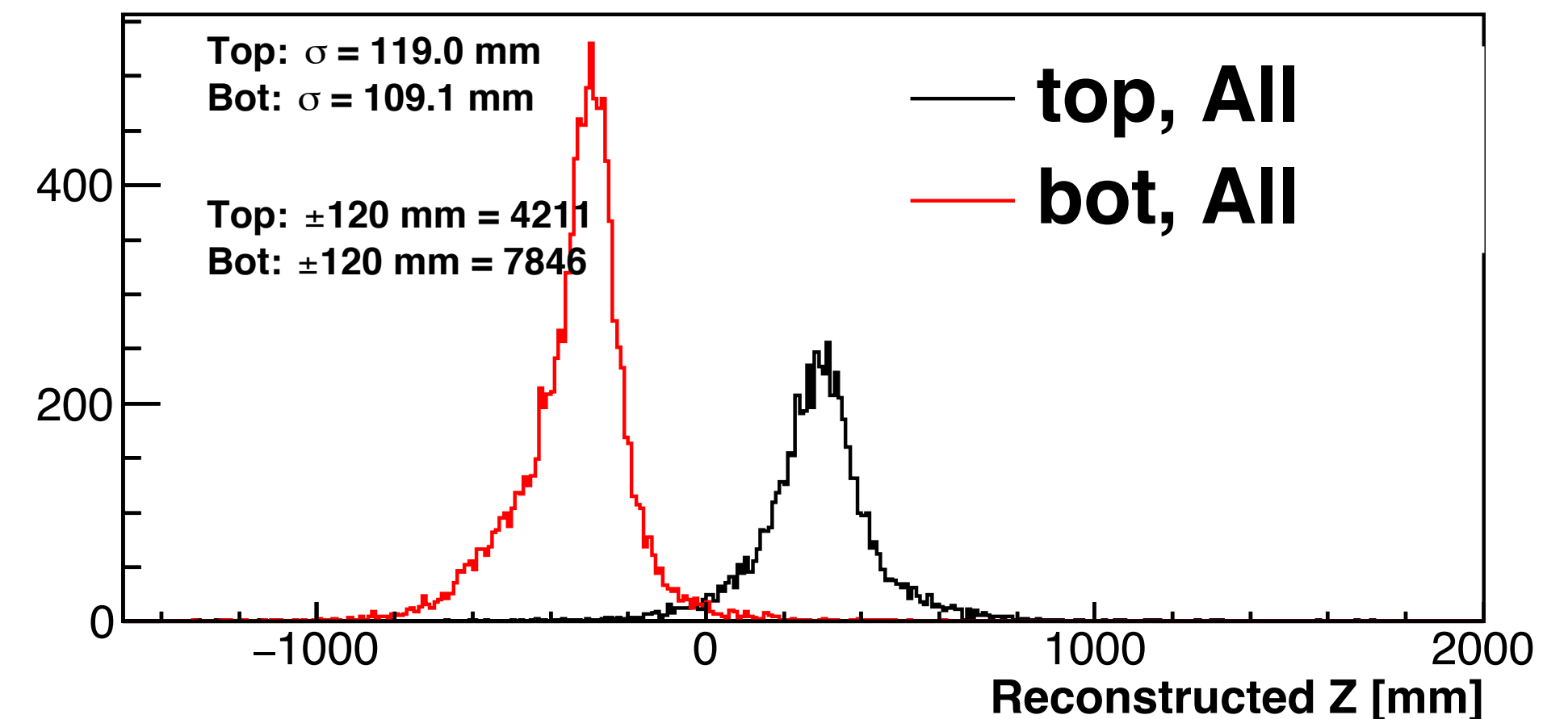
625 mm



725 mm

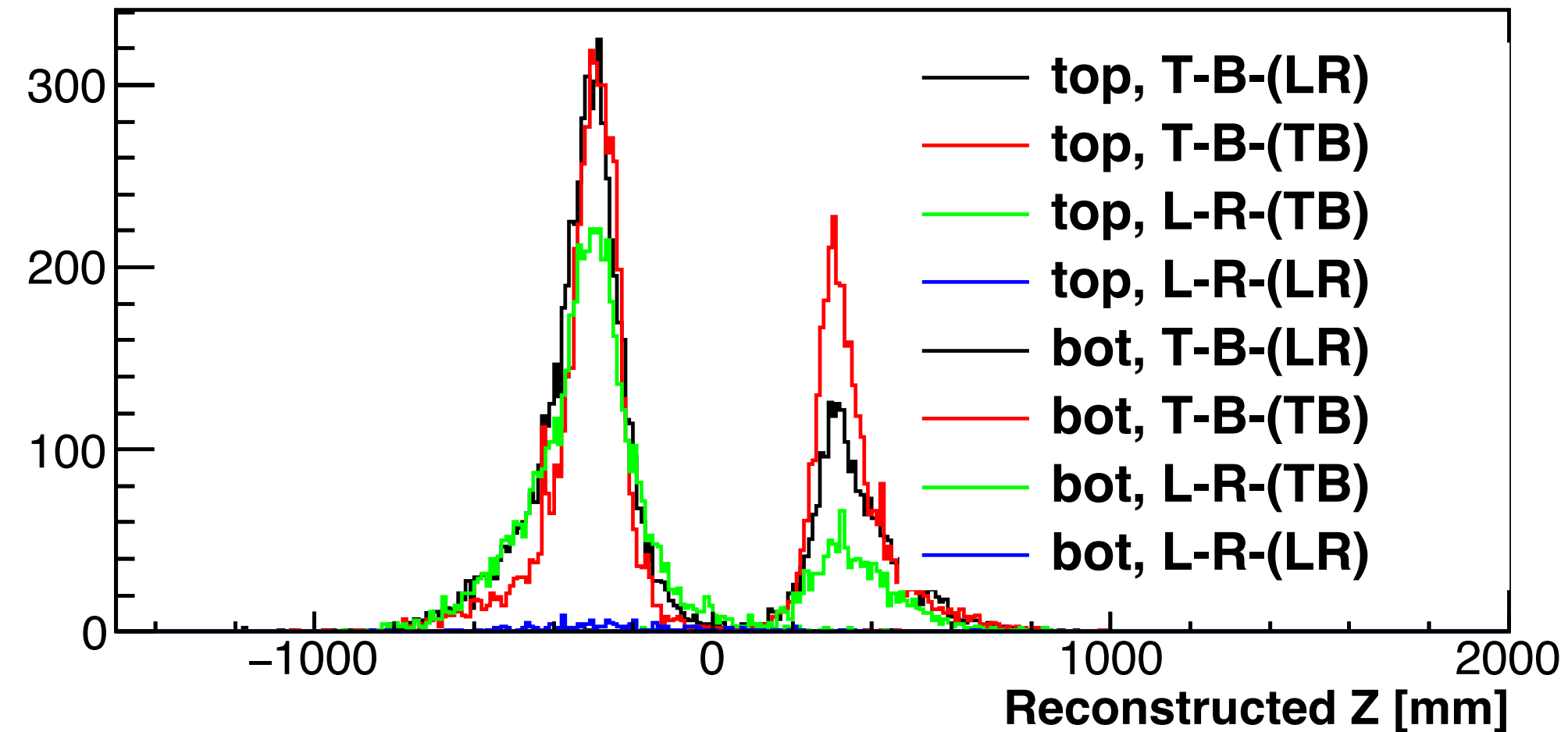


825 mm

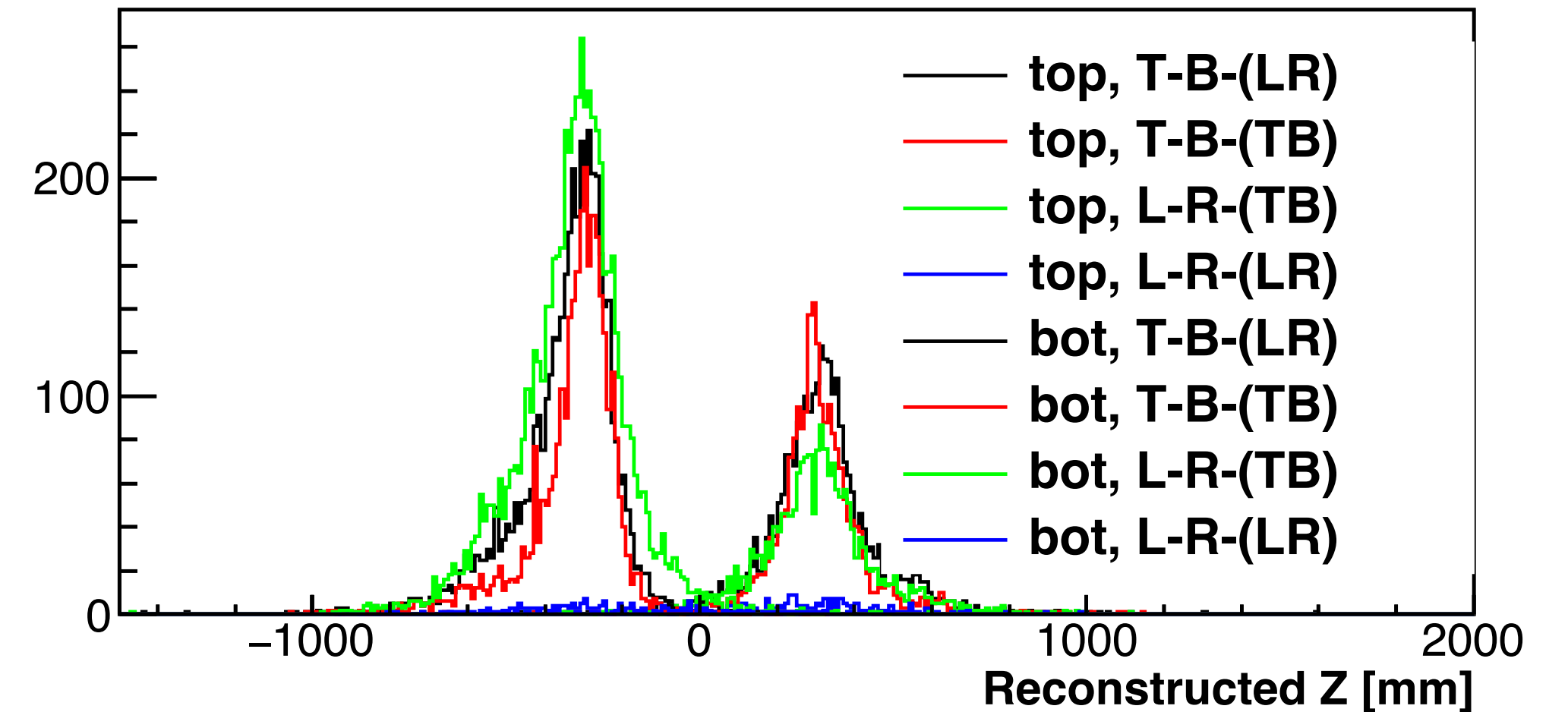


Annihilation Vertex Reconstruction

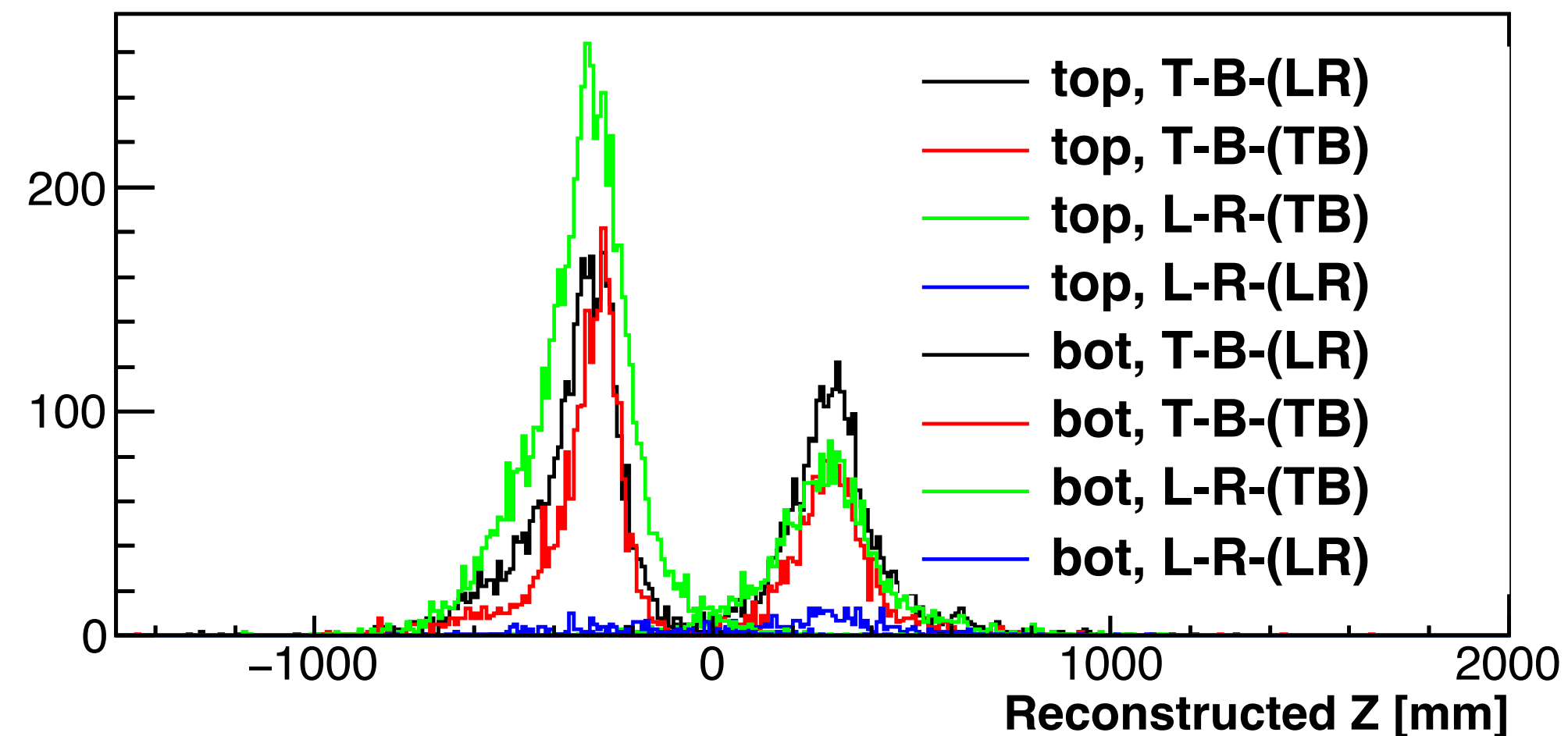
425 mm



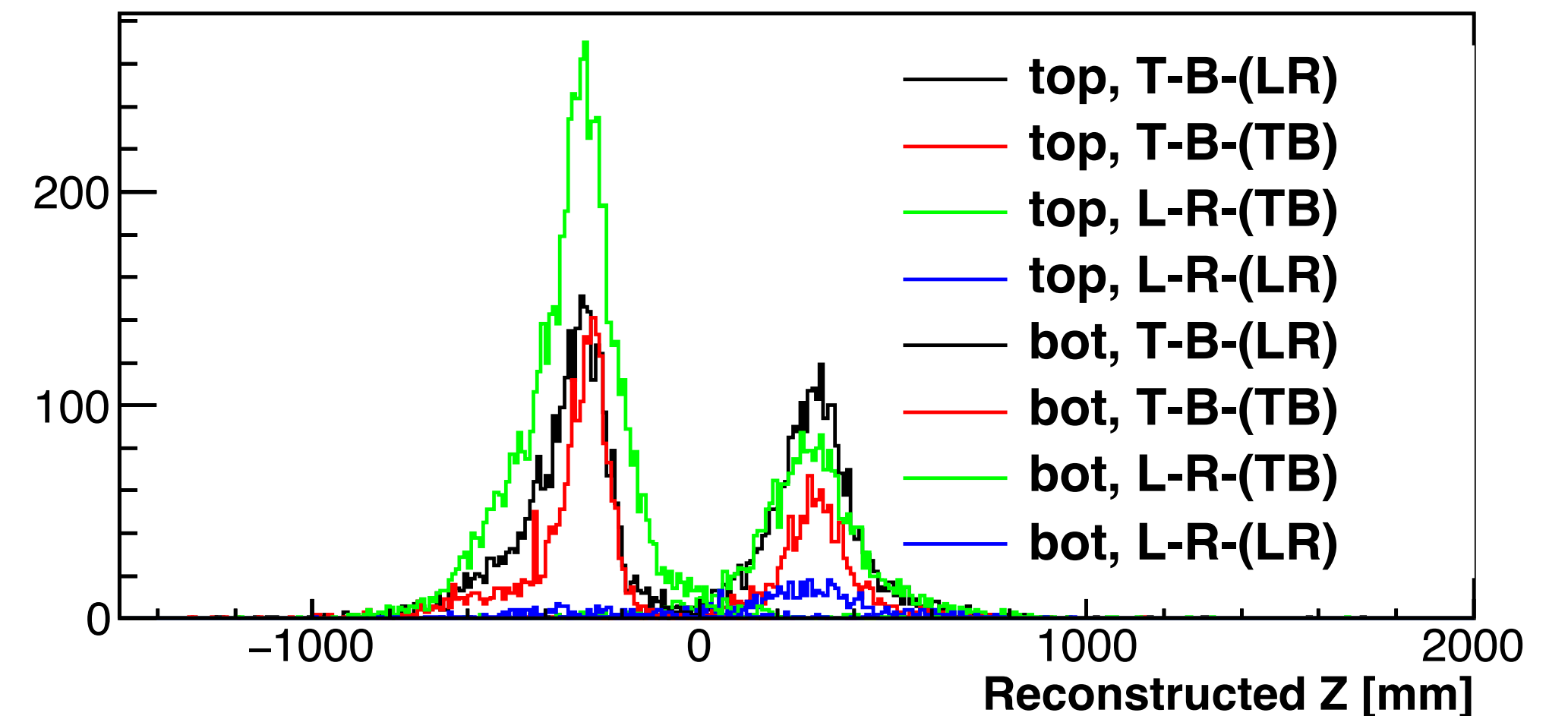
625 mm



725 mm



825 mm



Summary

- The detection efficiency at least 3 charged pions with T-B-? or L-R-? combinations was estimated to be **7.2% (Top), 23% (Bottom)**. (Top det. at 825 mm)
- The efficiency of annihilation vertex reconstruction was estimated to be **58.5% (Top), 34.3% (Bottom)** (Top det. at 825 mm), which makes total efficiency to be **4.2% (Top), 7.8% (Bottom)**.