Analysis of channeling for run 5920, crystal STF110

Run date: 2017-12-04 Particle type: Xenon

Particle energy: 95.6 GeV

Francesco Forcher December 12, 2017







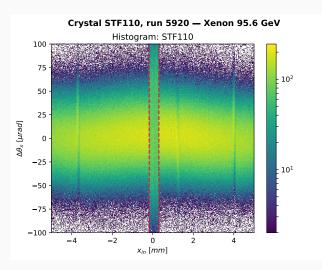
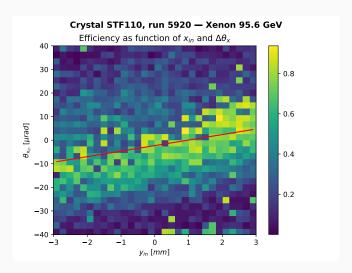


Figure 1: Geometrical cuts in x: -0.175 -> 0.3 [mm]

Geometrical cuts

TORSION ANALYSIS: EFFICIENCY

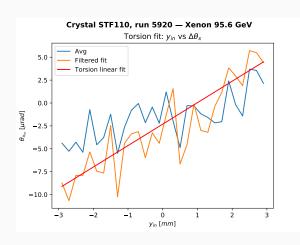




Torsion correction

TORSION ANALYSIS: EFFICIENCY FIT



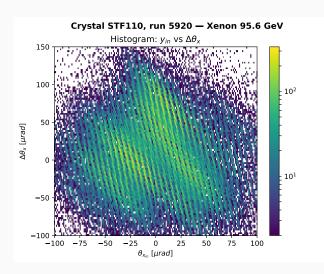


Efficiency fit:

m: 2e+00 [μrad/mm]

q: -2e+00 [μ rad]





Torsion correction

Channeling fit: cut at $\pm \frac{\theta_c}{2}$: half critical angle



