

Analysis of channeling for run 5870, crystal TCP76

Run date: 2017-12-04

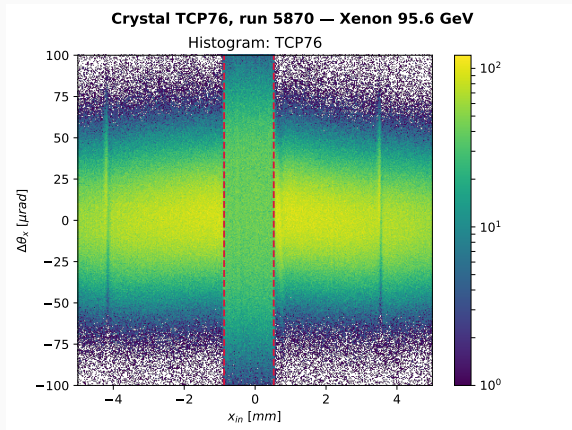
Particle type: Xenon

Particle energy: 95.6 GeV

FRANCESCO FORCHER

December 13, 2017

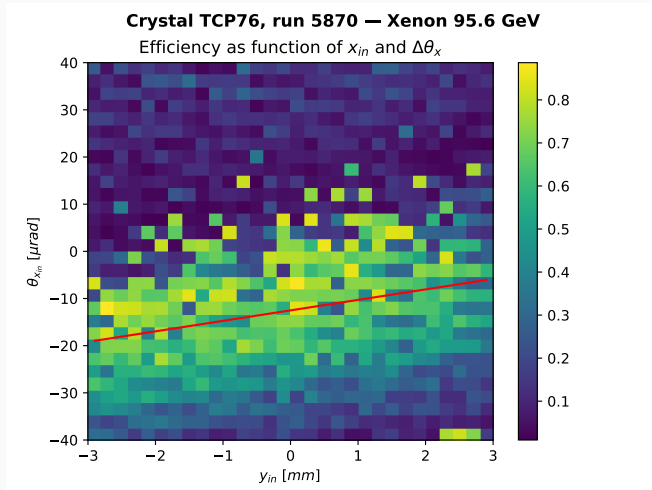


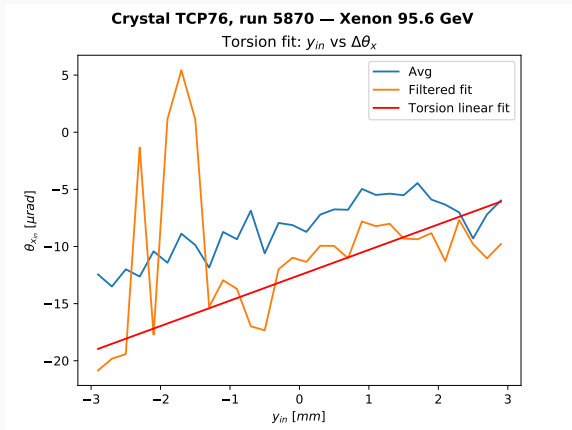


Cuts in x:

x1: -0.875 [mm]

x2: 0.525 [mm]

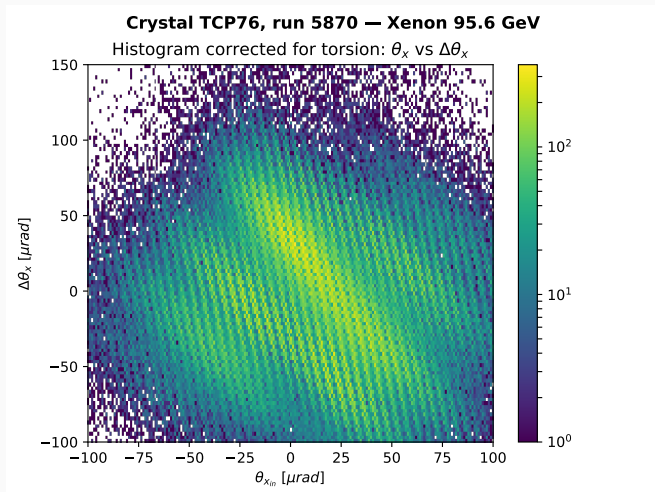




Efficiency fit:

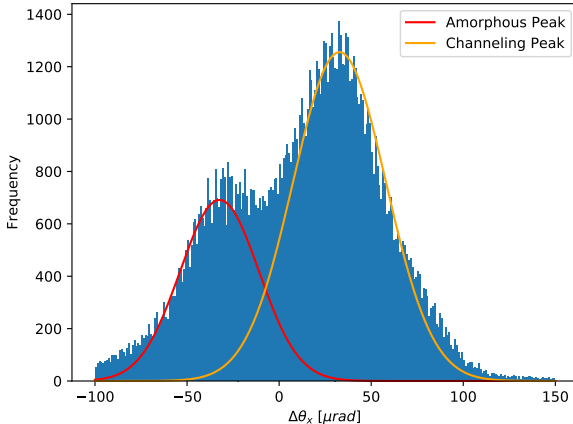
m : 2.2 [$\mu\text{rad}/\text{mm}$]

q : -12.5 [μrad]



TCP76 run 5870, Xenon 95.6 GeV — Channeling, cut $\pm \theta_c/2 = \pm 10.5$

Efficiency $68.1\% \pm 1.2\%$ — Bending Angle $32.76 \pm 0.5 [\mu\text{rad}]$



TCP76 run 5870, Xenon 95.6 GeV — Channeling, cut $\pm\theta_c = \pm 21.1$

Efficiency $55.6\% \pm 2.5\%$ — Bending Angle 39.8 ± 1.0 [μrad]

