

Analysis of channeling for run 5928, crystal TCP74

Run date: 2017-12-04

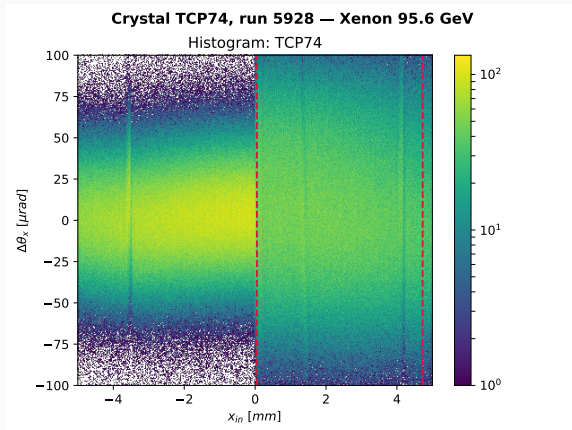
Particle type: Xenon

Particle energy: 95.6 GeV

FRANCESCO FORCHER

December 13, 2017

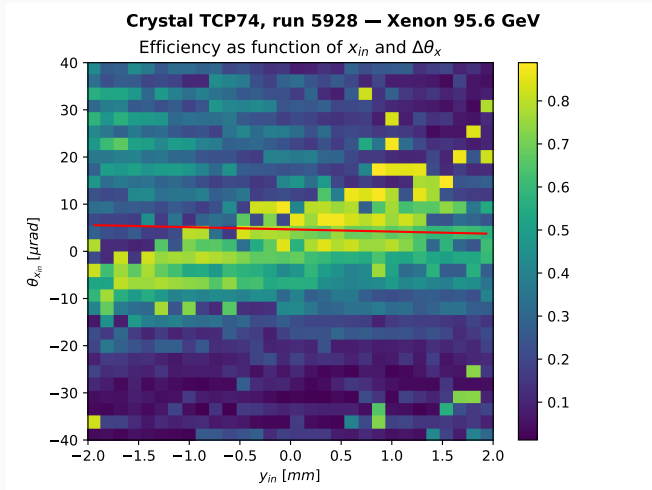


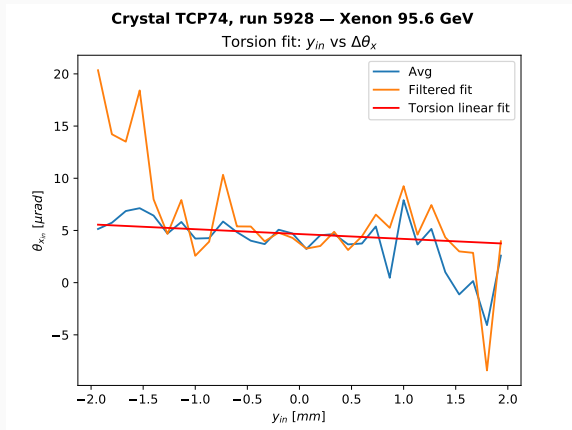


Cuts in x:

x1: 0.050 [mm]

x2: 2.000 [mm]

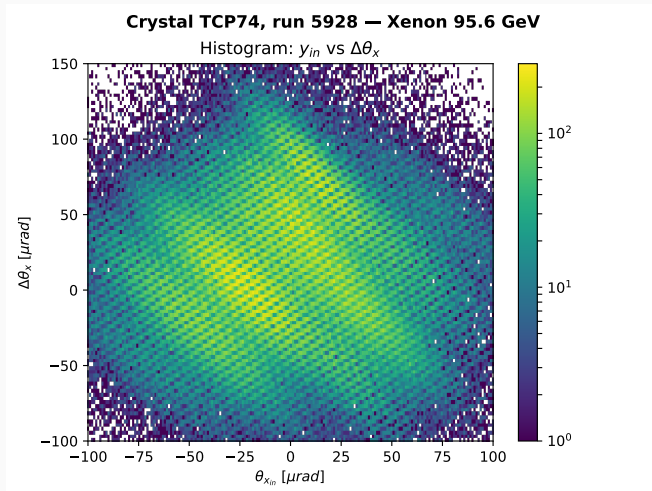




Efficiency fit:

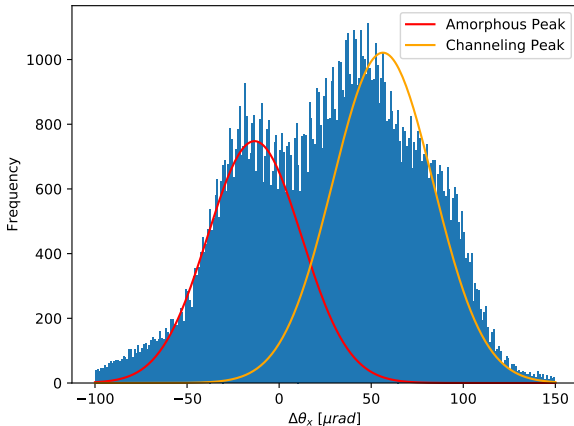
$m: -0.5 [\mu\text{rad}/\text{mm}]$

$q: 4.7 [\mu\text{rad}]$



TCP74 run 5928, Xenon 95.6 GeV — Channeling, cut $\pm \theta_c/2 = \pm 10.5$

Efficiency $59.4\% \pm 1.9\%$ — Bending Angle $56.34 \pm 1.1 [\mu\text{rad}]$



TCP74 run 5928, Xenon 95.6 GeV — Channeling, cut $\pm\theta_c = \pm 21.1$

Efficiency $42.5\% \pm 3.6\%$ — Bending Angle 62.51 ± 1.9 [μrad]

