# Analysis of channeling for run 5870, crystal TCP76

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

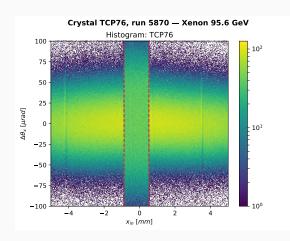
Particle energy: 95.6 GeV

FRANCESCO FORCHER December 18, 2017









Cuts in x:

x1: -0.875 [mm]

x2: 0.525 [mm]

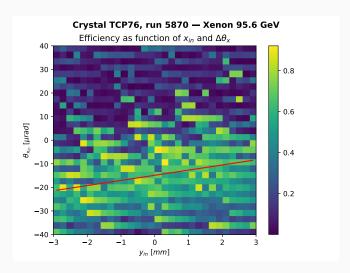
Cuts in y:

y1: -3.000 [mm]

y2: 3.000 [mm]

#### **TORSION ANALYSIS: EFFICIENCY**

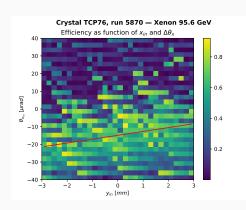


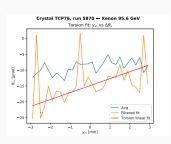


Torsion correction

#### **TORSION ANALYSIS: EFFICIENCY FIT**





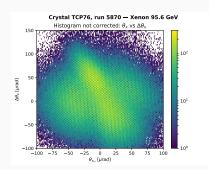


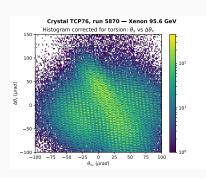
### Efficiency fit:

m: 2.2 [ $\mu$ rad/mm]

q: -14.9 [ $\mu$ rad]



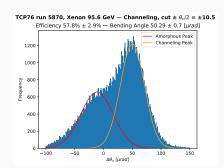


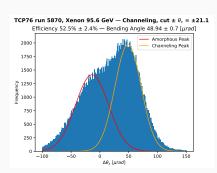


Torsion correction

## Channeling fit: cuts at $\pm \frac{\theta_c}{2}$ and $\pm \theta_c$ :







Channeling analysis