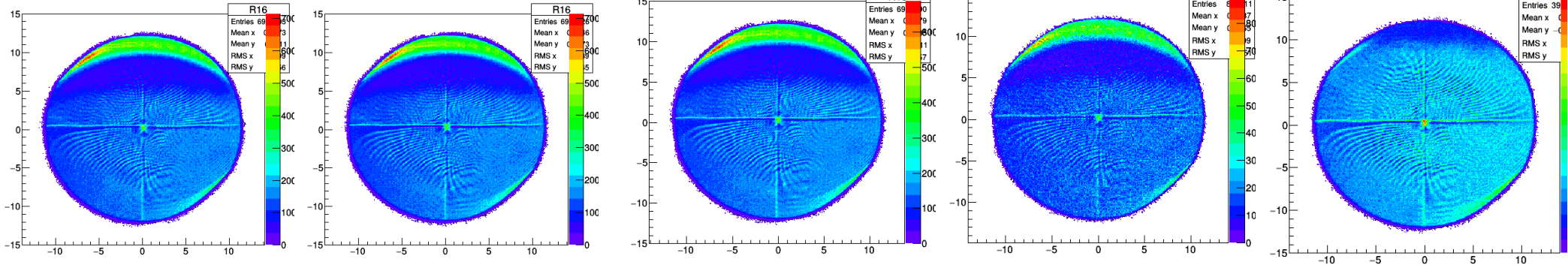


Raster cut lib

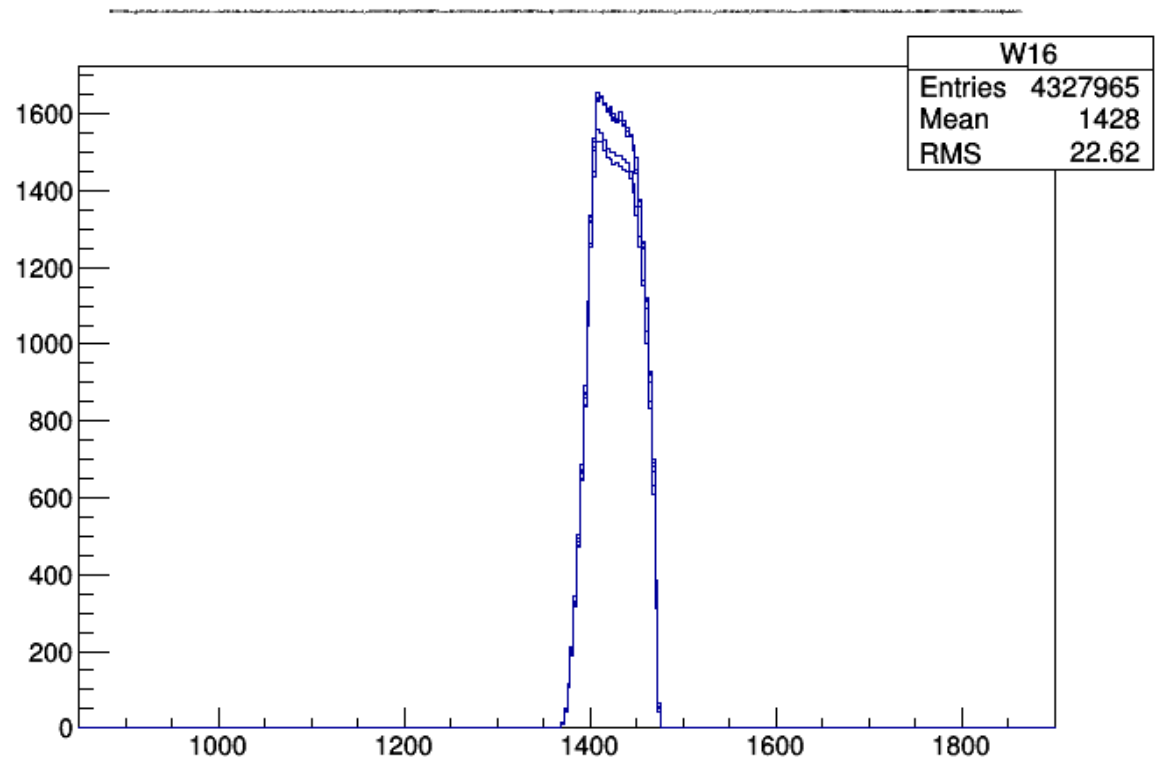
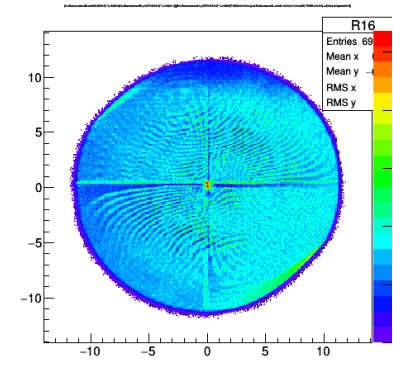
Pengjia Zhu

Raster cut:

- Cut on raster
- Get the charge after the cut
 - Cut the same raster size at fastbus and happex
 - Get the charge from happex ADC
- Yield after the raster cut

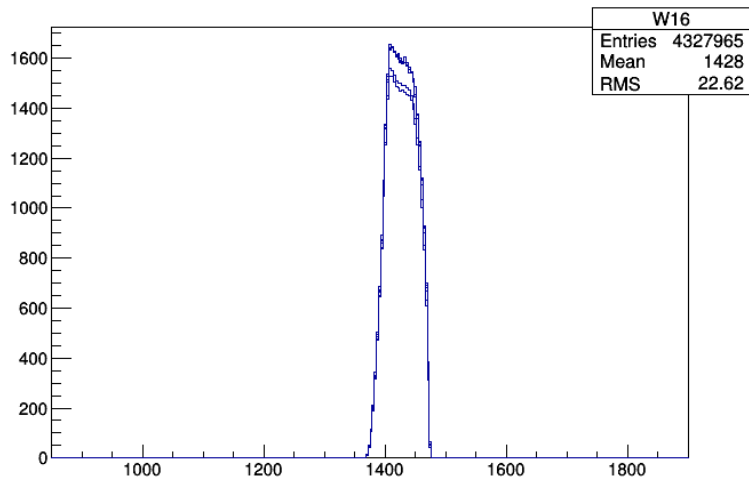
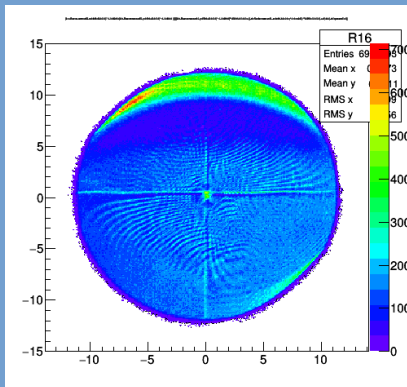


Example:
 Setting: 2.2GeV, 5T, transverse, p0=1.6GeV, material=19
 Runs:6010-6015

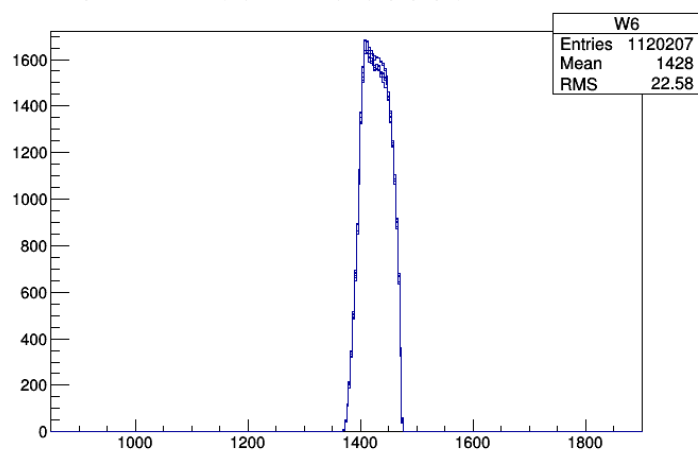
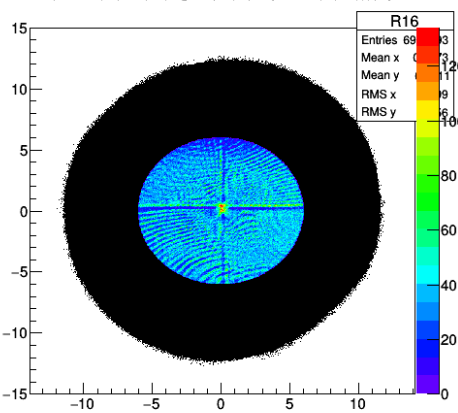


Yield drift before the raster cut

After applying the raster cut

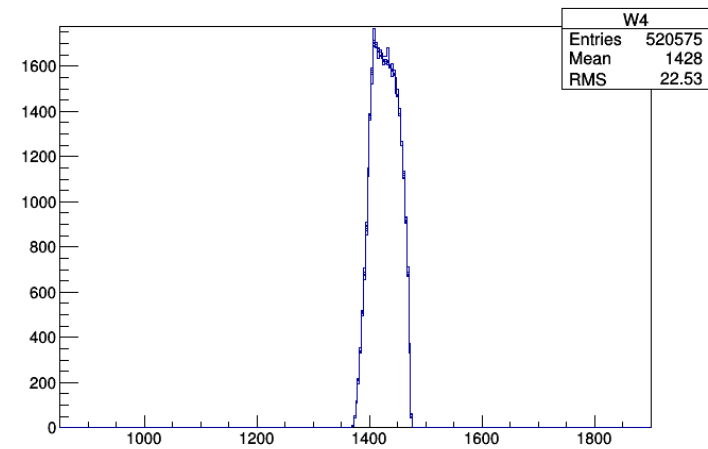
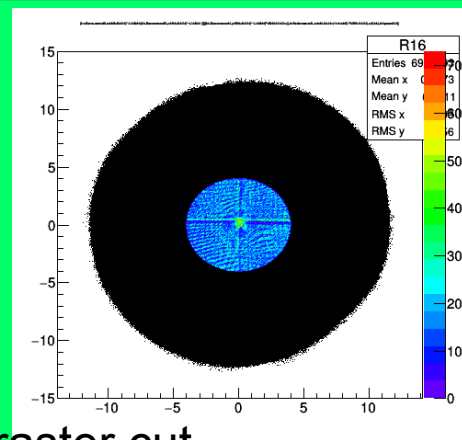


No raster cut



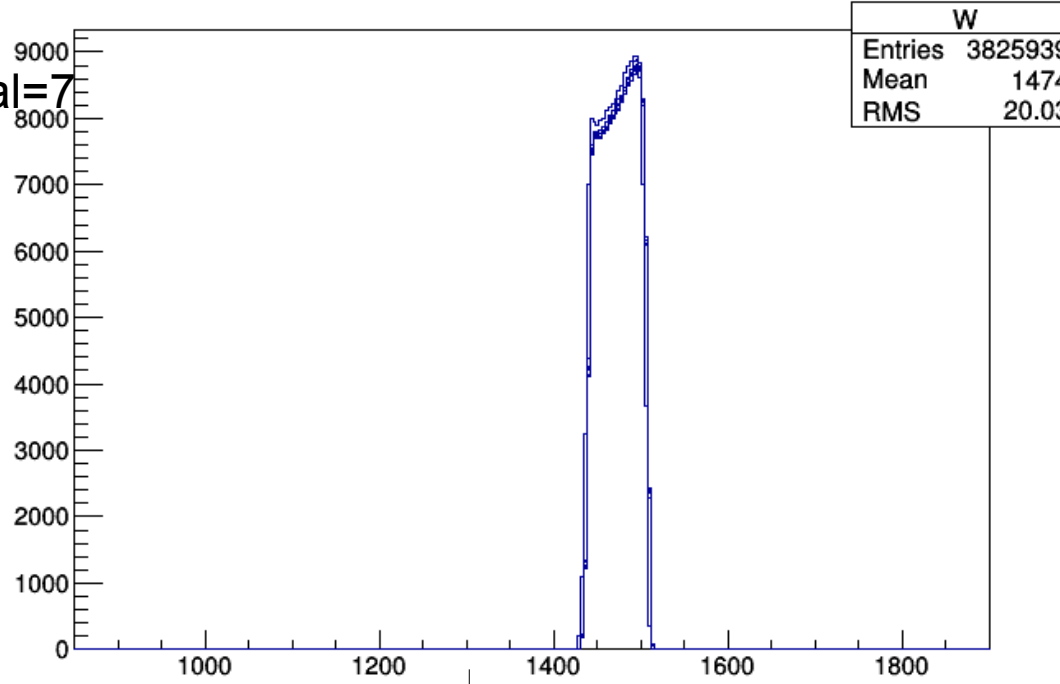
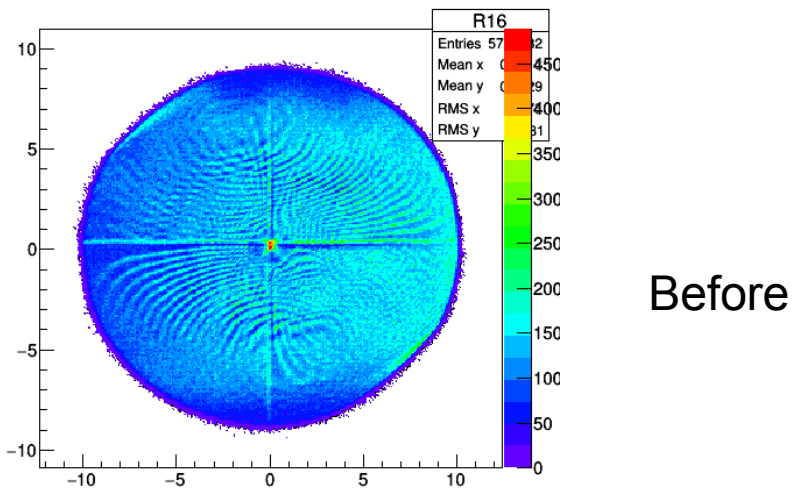
12mm raster cut

8mm raster cut

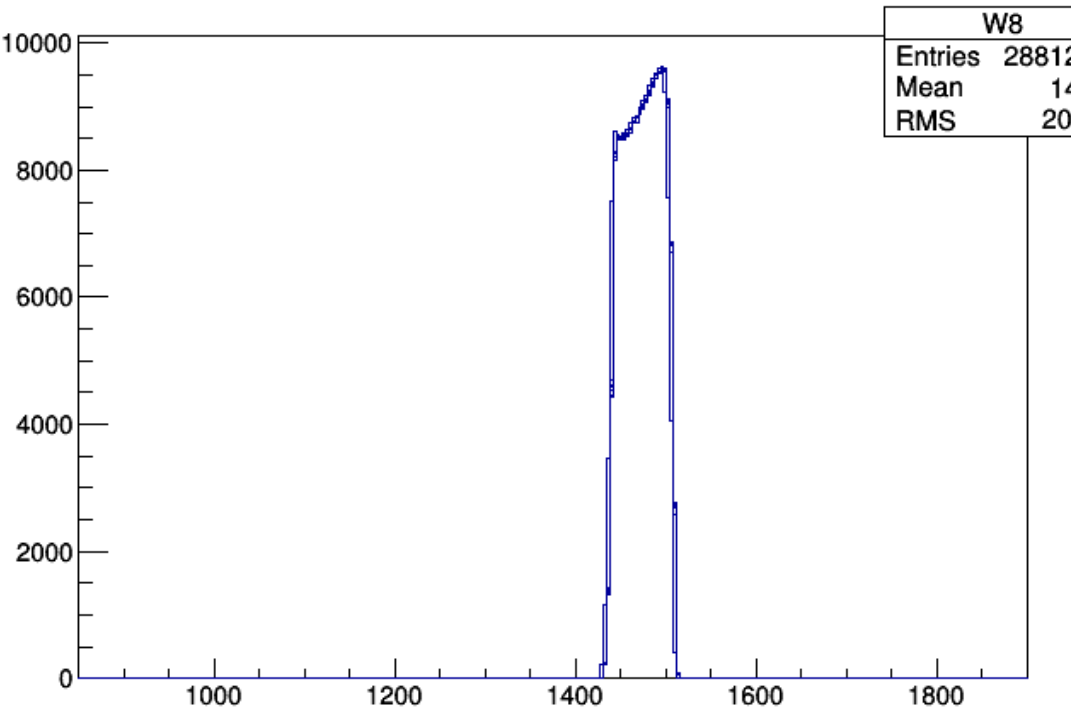
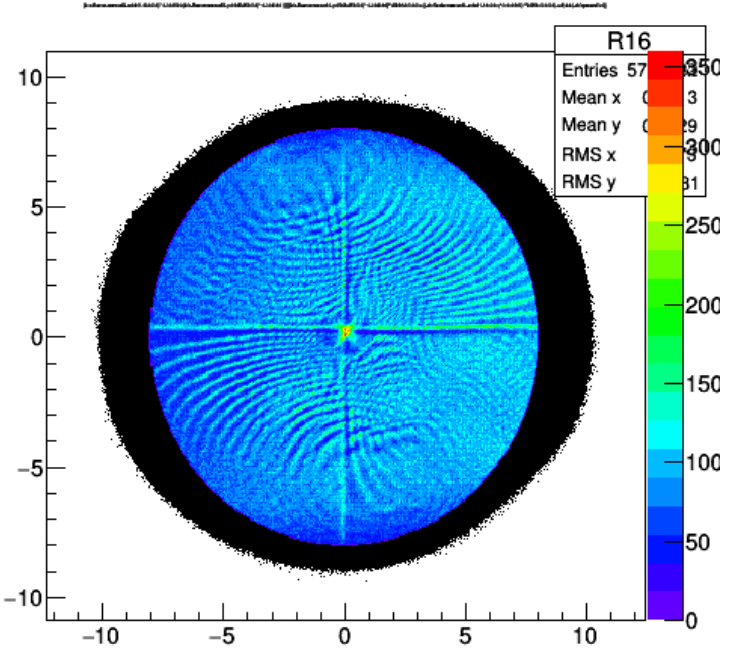


Other examples

Setting: 2.2GeV, 2.5T, tran, p0=1.55GeV, material=7



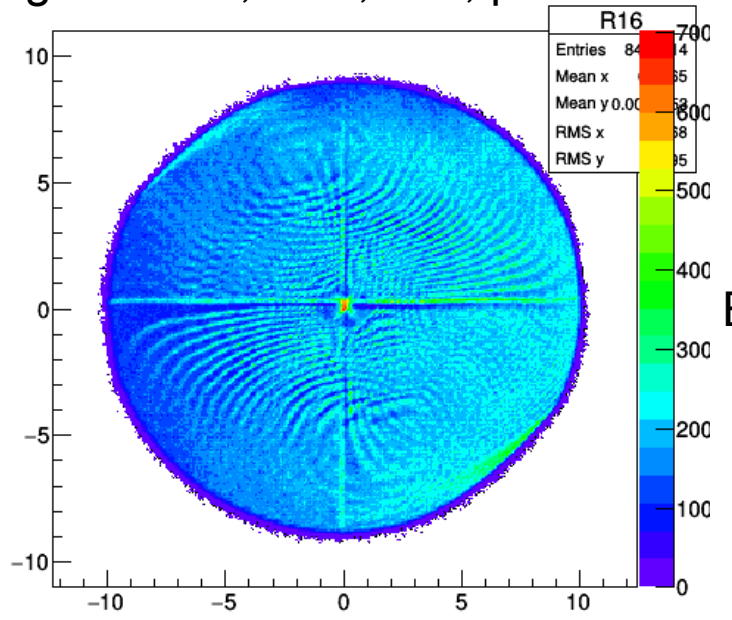
Before



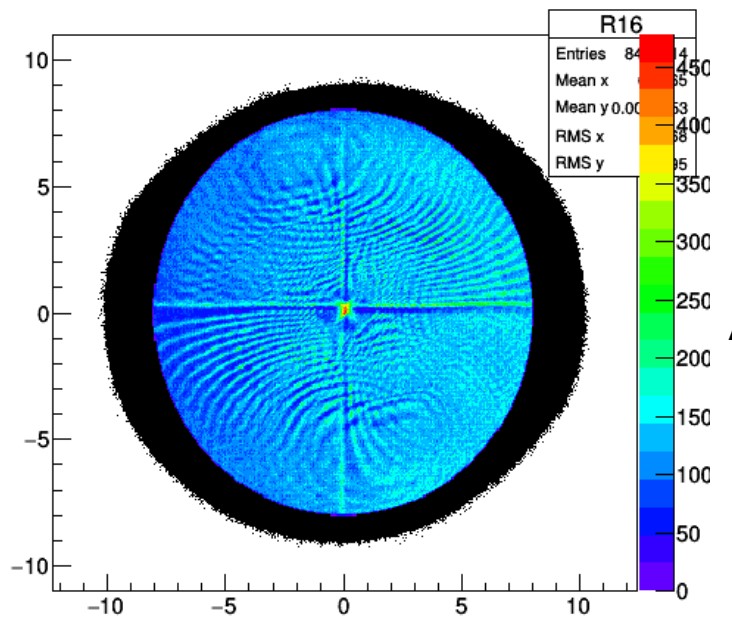
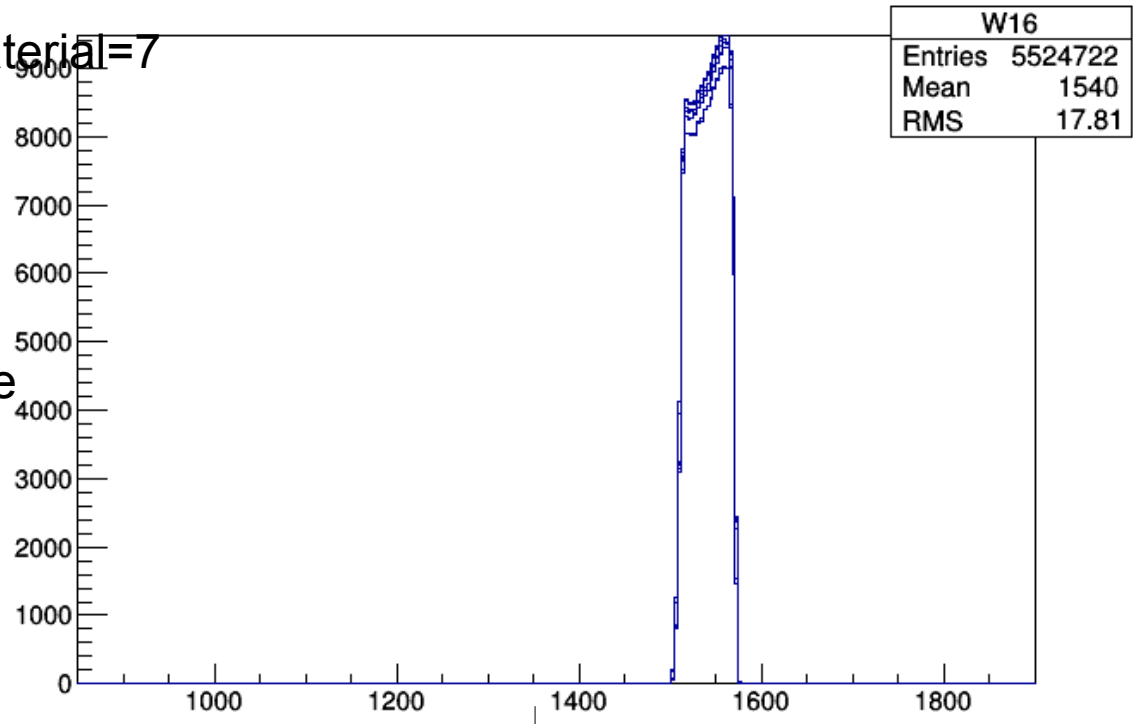
After

Other examples

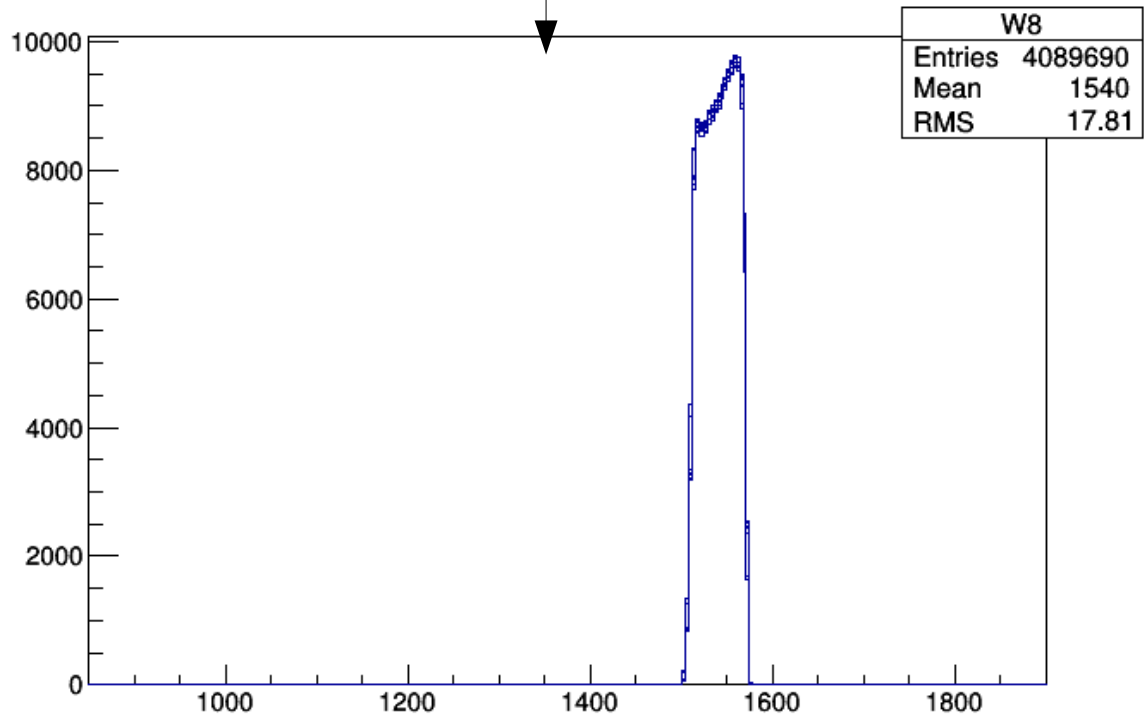
Setting: 2.2GeV, 2.5T, tran, p0=1.44GeV, material=7



Before

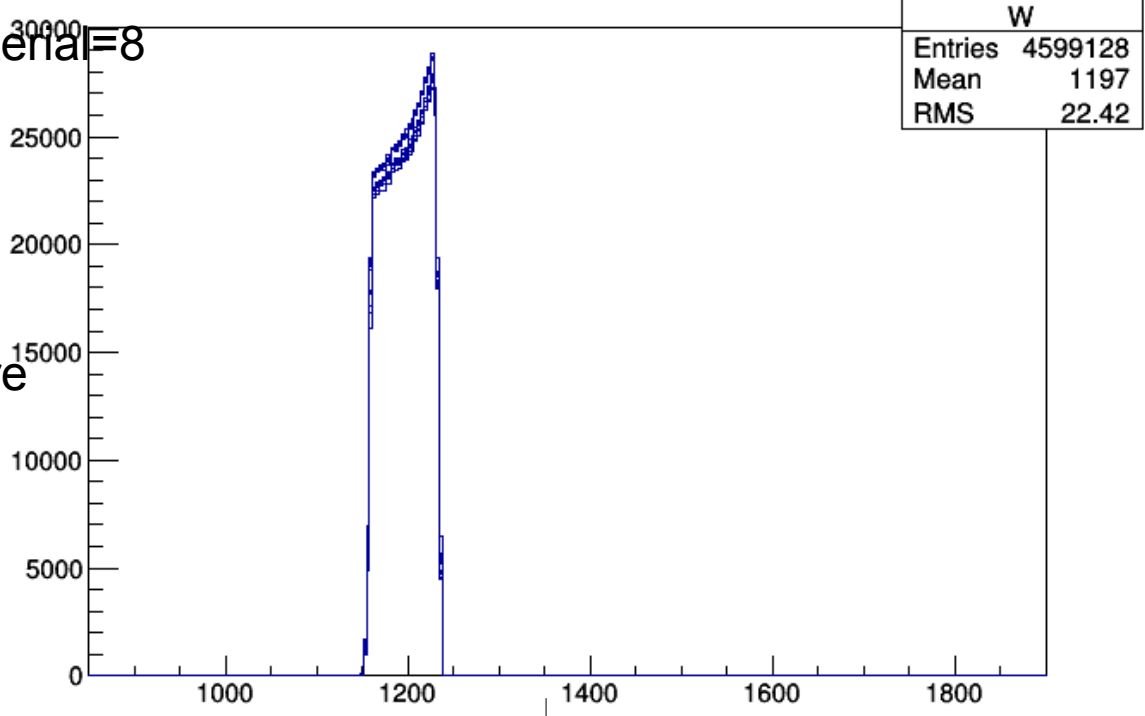
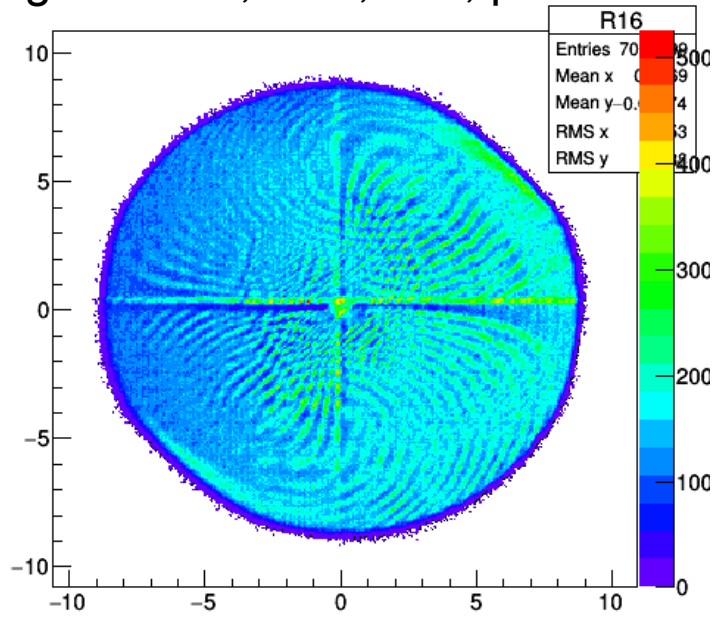


After

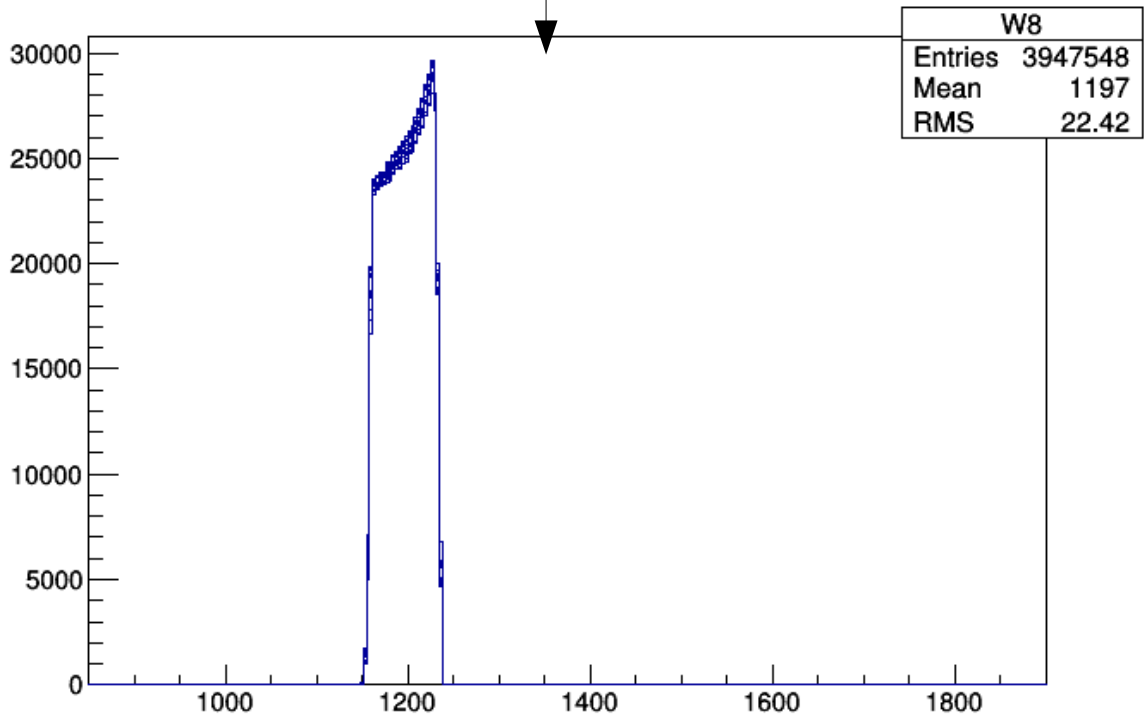
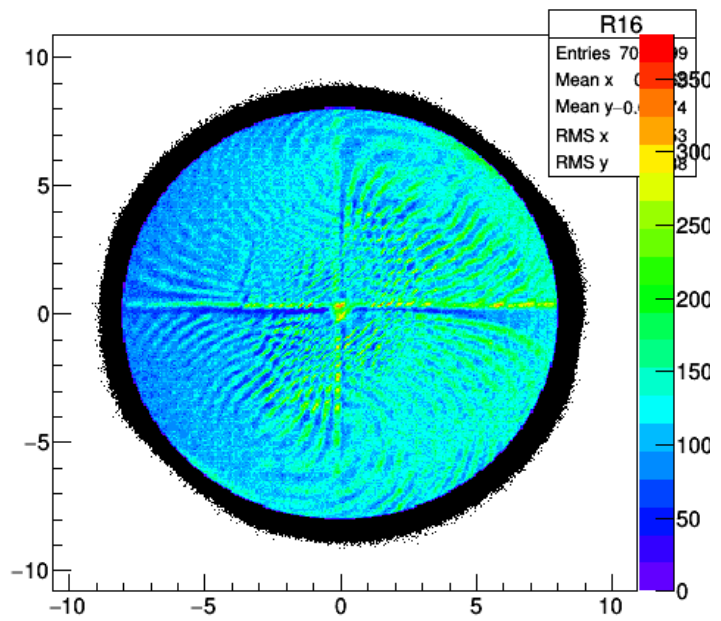


Other examples

Setting: 1.7GeV, 2.5T, tran, p0=1.4GeV, material=8



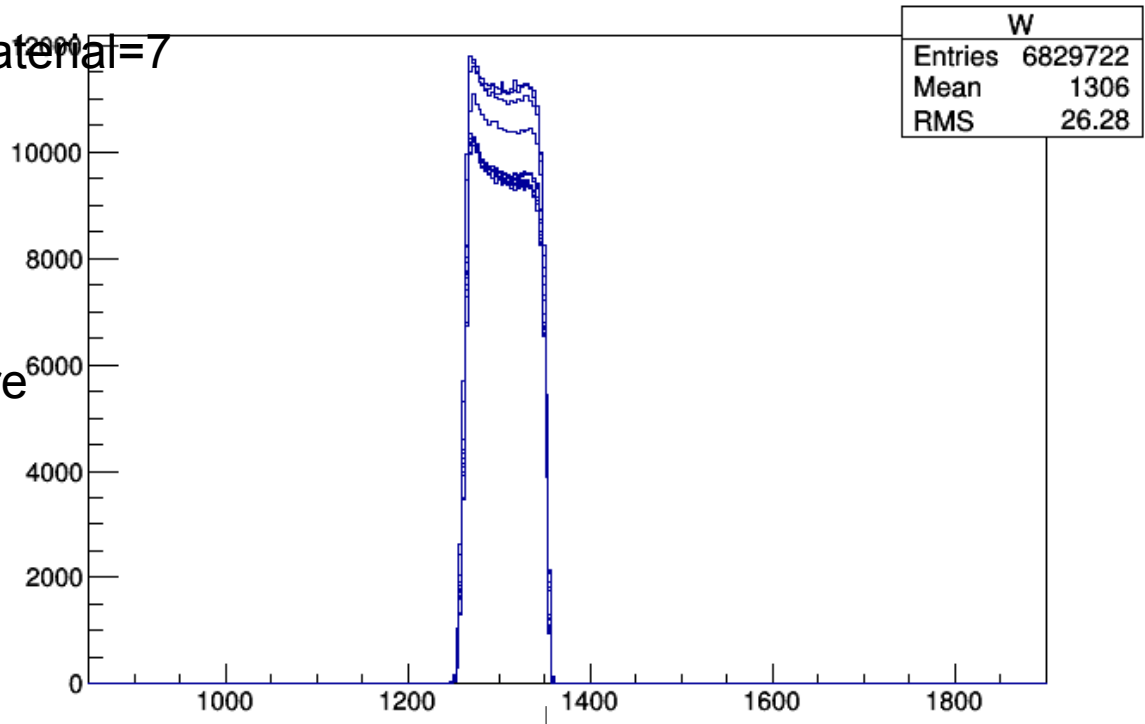
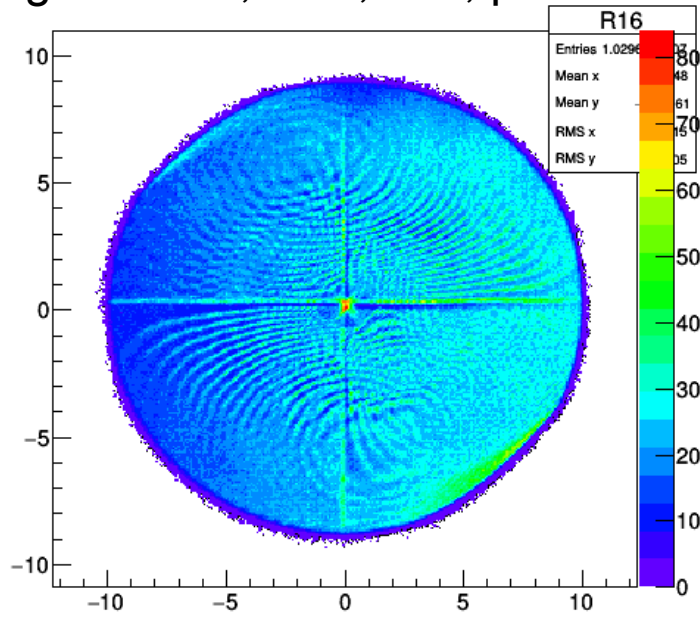
Before



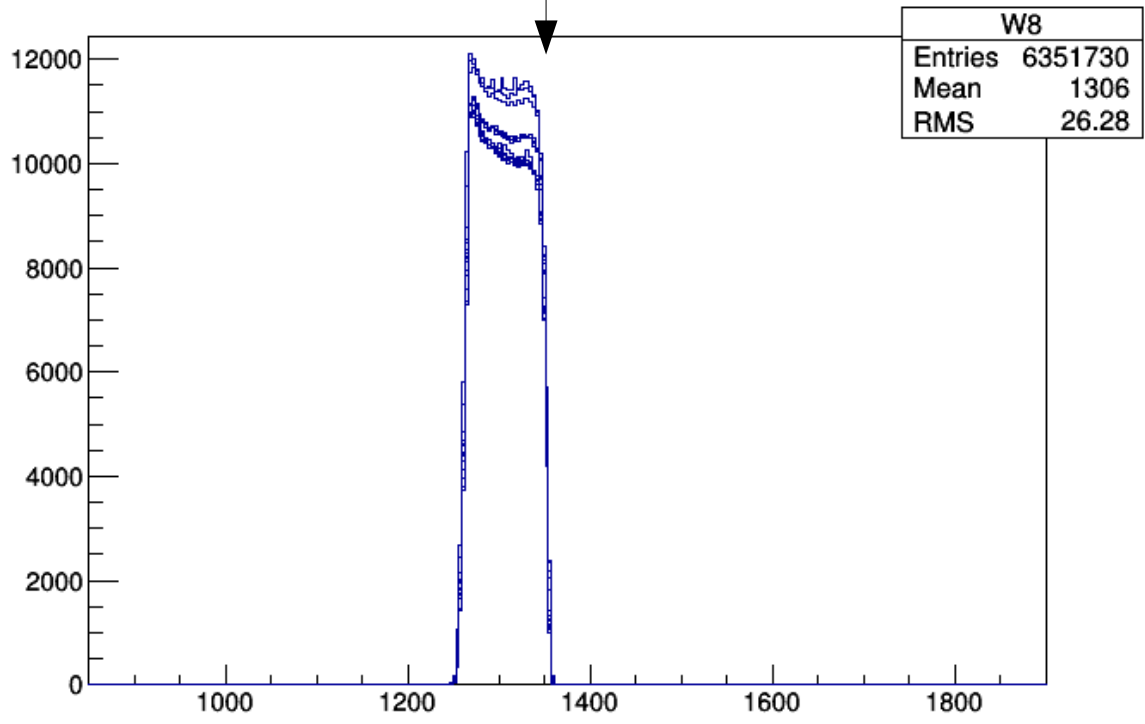
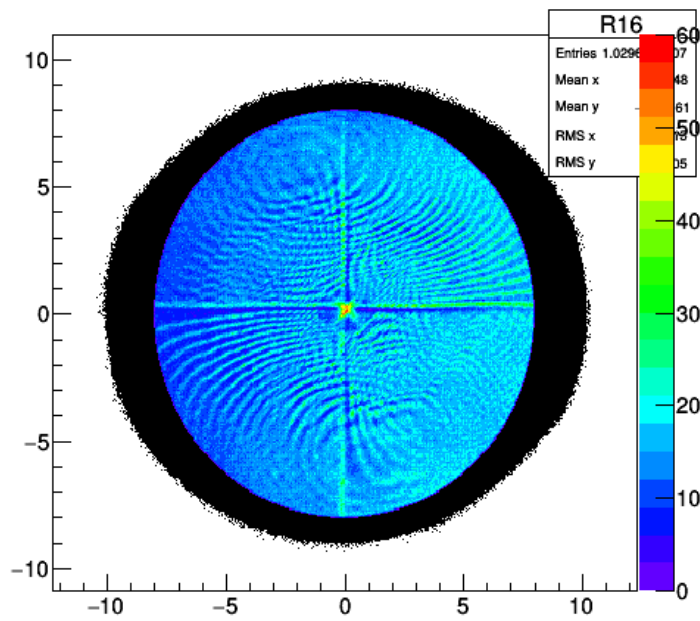
After

Other examples

Setting: 2.2GeV, 2.5T, tran, p0=1.79GeV, material=7



Before



After

Code available in:

`$G2P/pzhu/work/raster/rastercut`

C++ lib

Support cut shape:

- Ellipse
- Rectangle
- Arc

All of my codes are in:
`$G2P/pzhu/work/`