

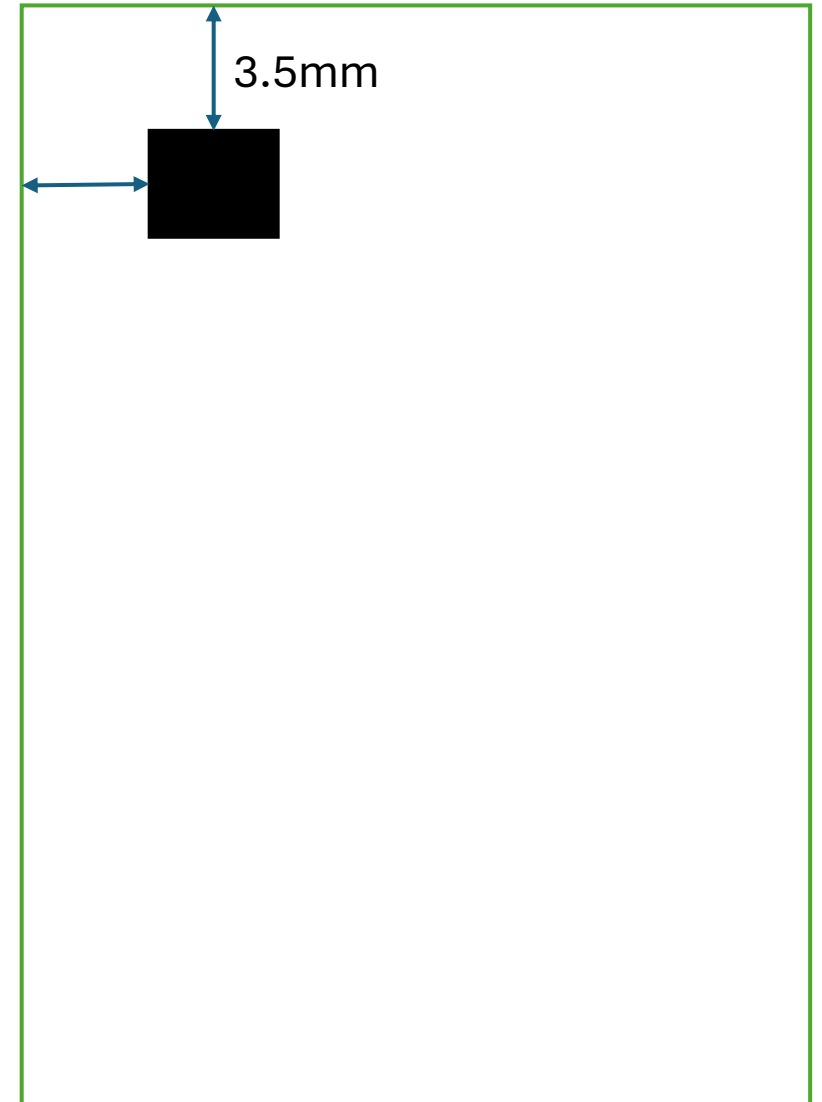
XY Binned Response

16 January Epical Meeting

Nick Sundstrom

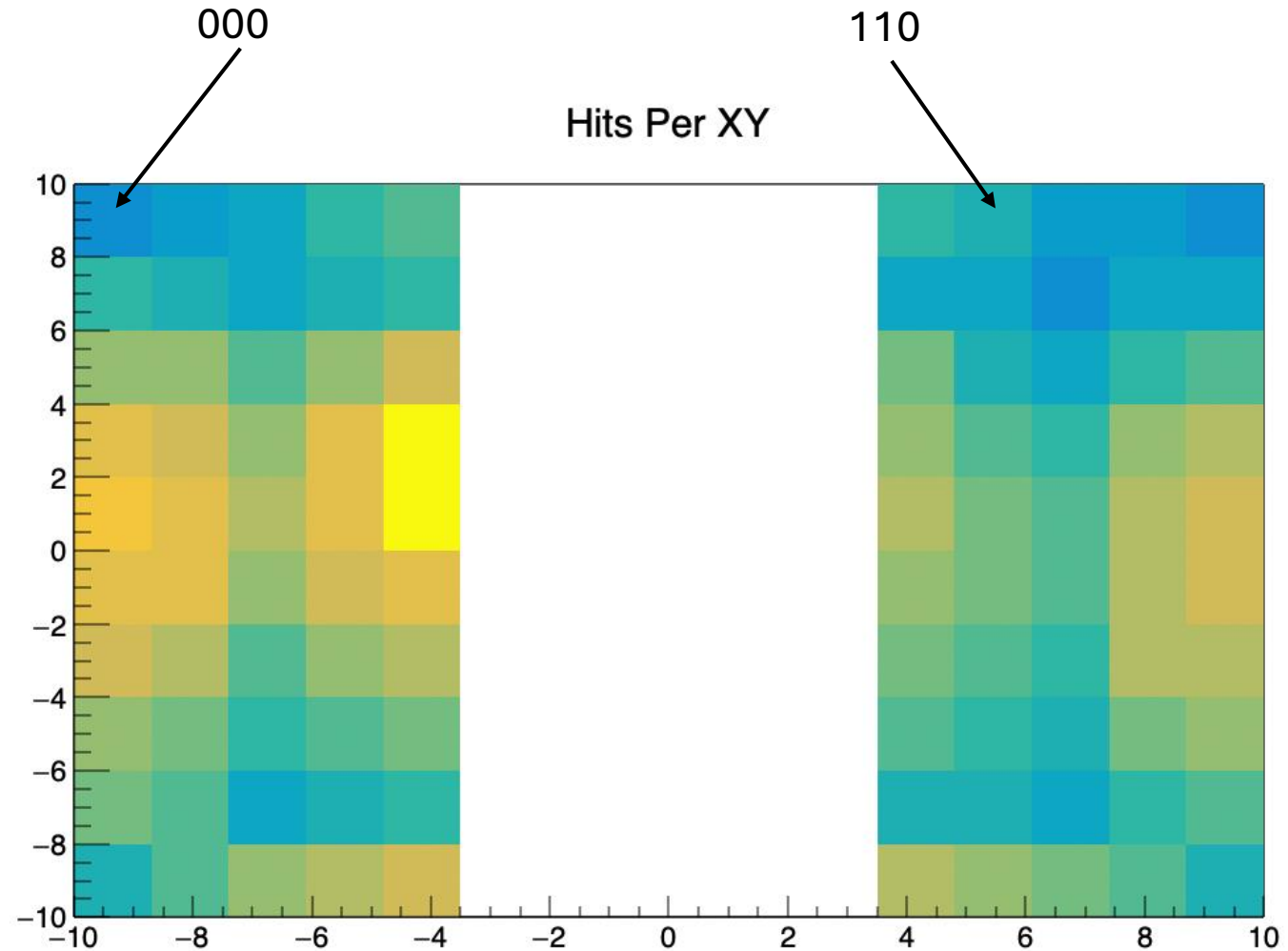
XY Binned Response

- Previously we have seen wrt Relative Response
 - No change along X
 - ~5% change along Y
- Goal to rebin to better observe XY relationship
 - Bin dimensions: 1.3x2 (mm)
 - Cylinder of 3mm radius



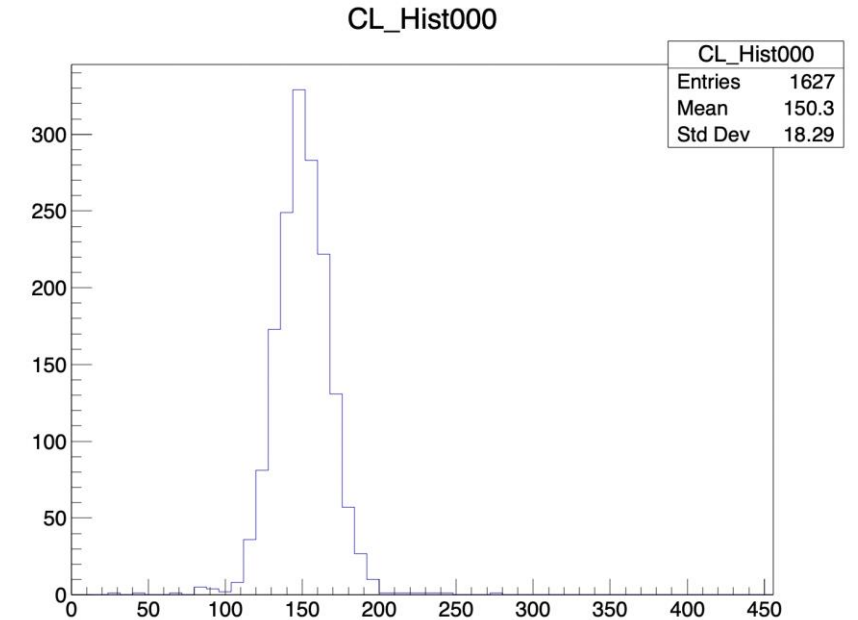
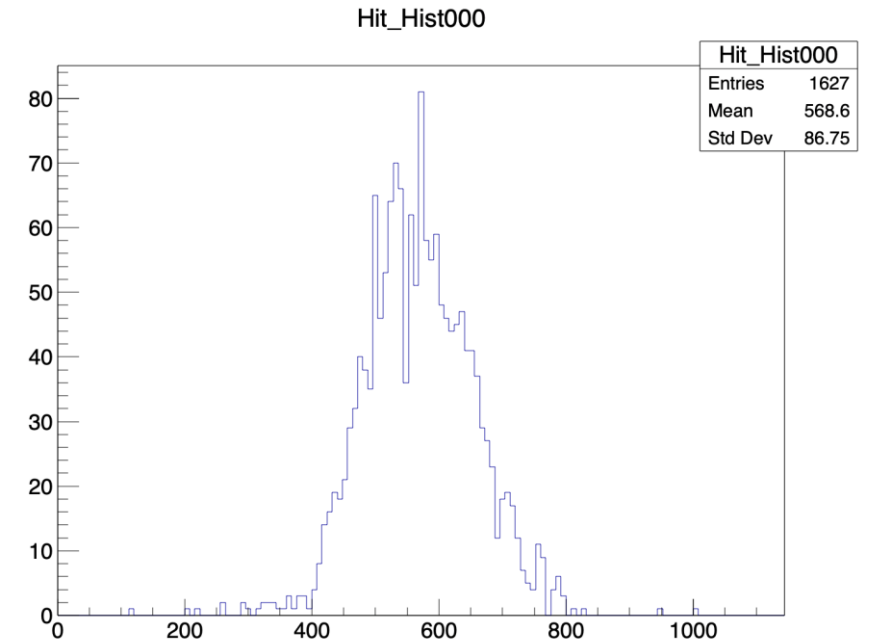
View of binning

- Hits per shower per bin
- Each bin gives us information on hits and clusters from events starts in that bin

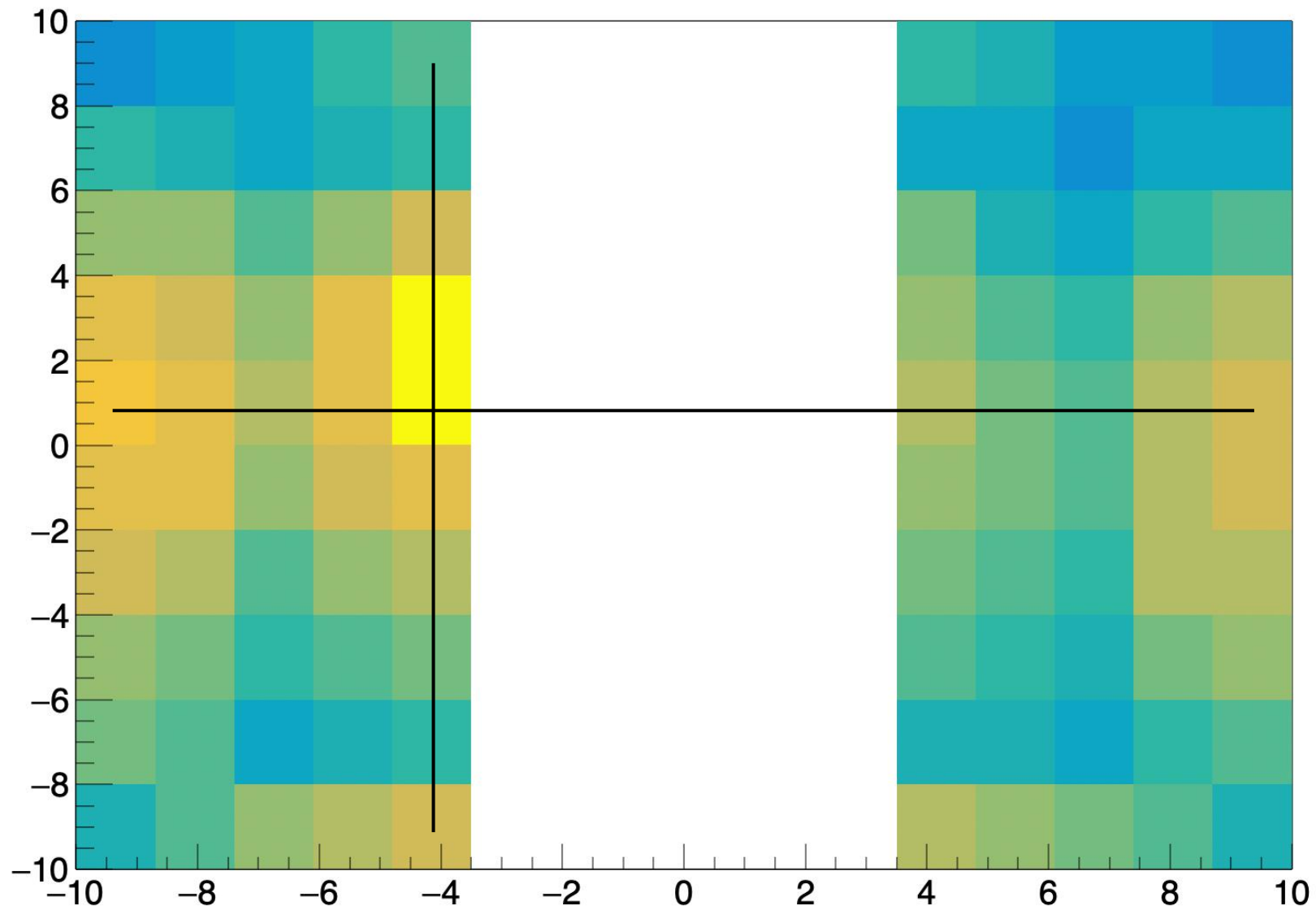


Results

- From each bin we get a histogram of hits and clusters
- Can use the values from these bins to reproduce XY relative response plots

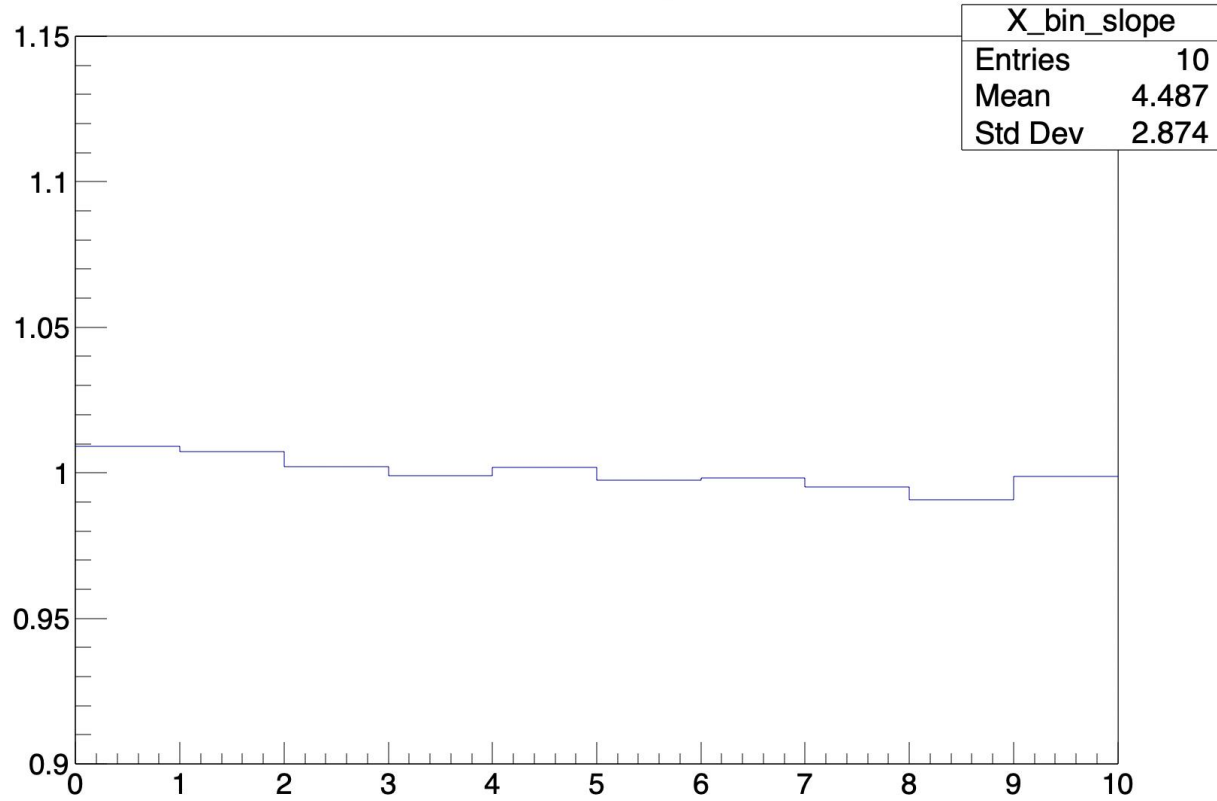


Reviewed So far

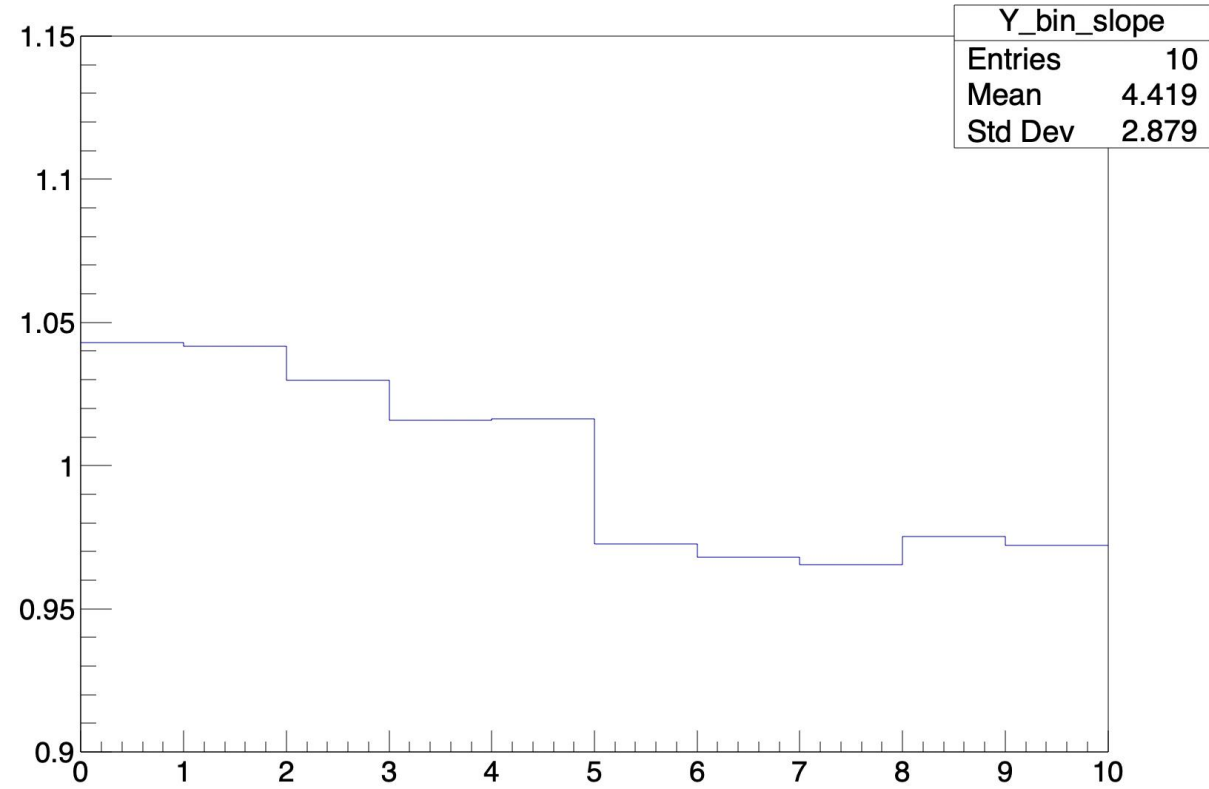


Results Hits

X_bin_slope

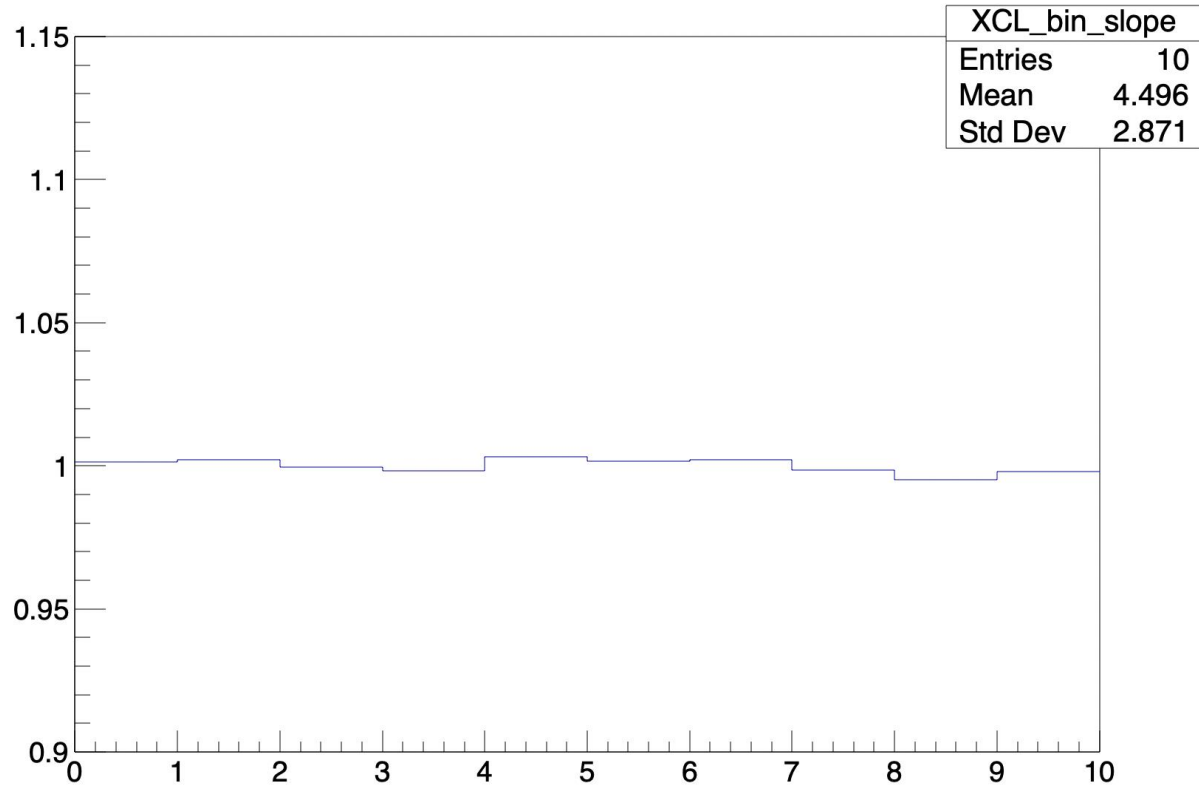


Y_bin_slope

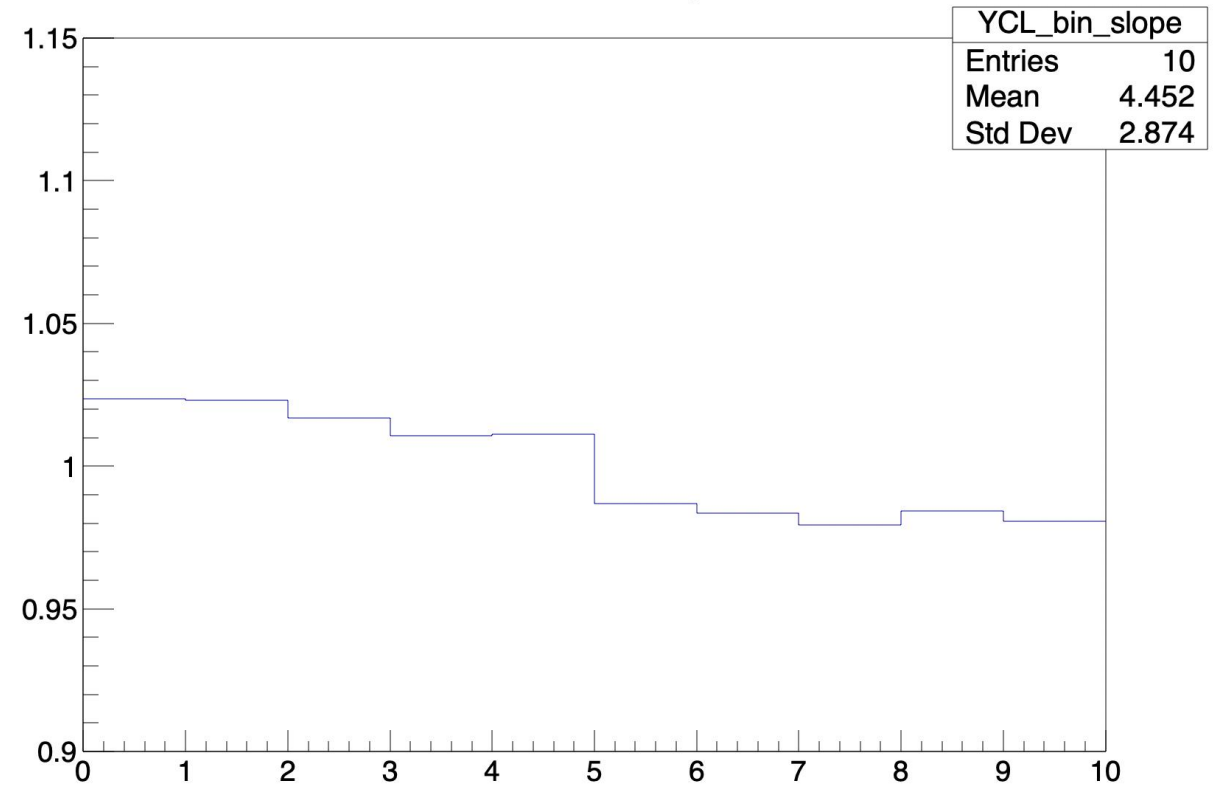


Results Clusters

XCL_bin_slope



YCL_bin_slope



Moving Forward

- Event by event cluster size averages
- Format plots so multiple are shown on the same canvas
 - For each row or column