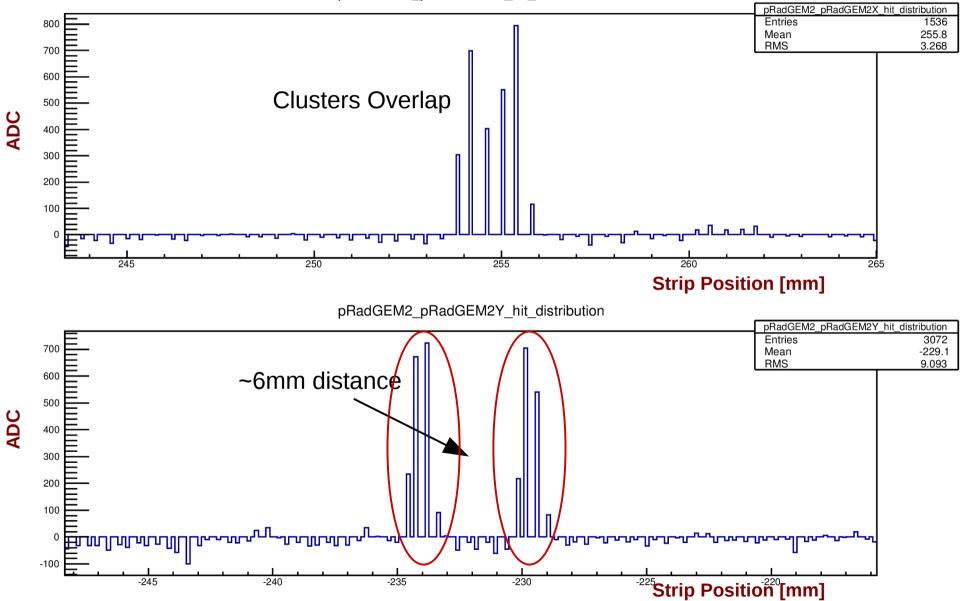


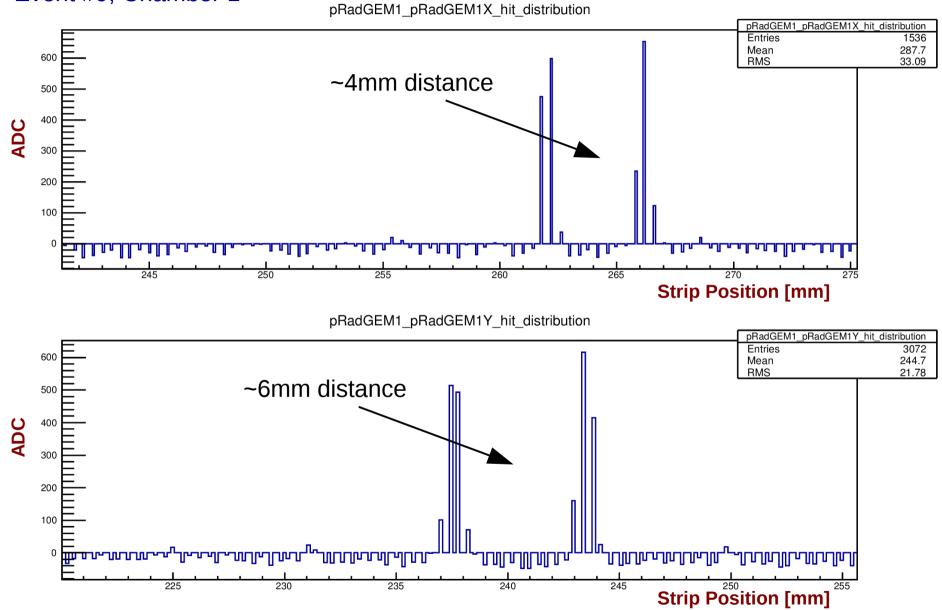
Event #7, Chamber 1

pRadGEM1_pRadGEM1X_hit_distribution

Event #7, Chamber 2

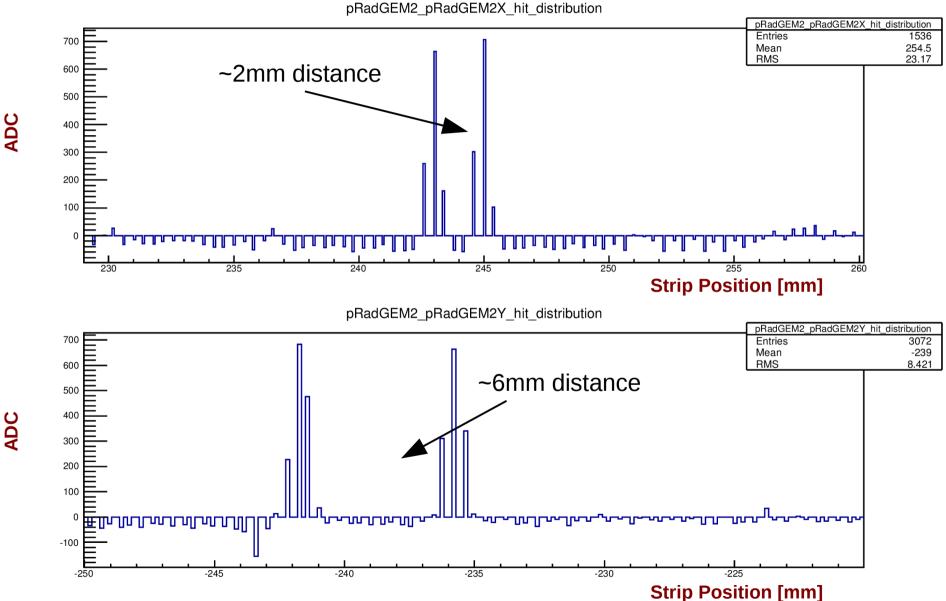
pRadGEM2_pRadGEM2X_hit_distribution



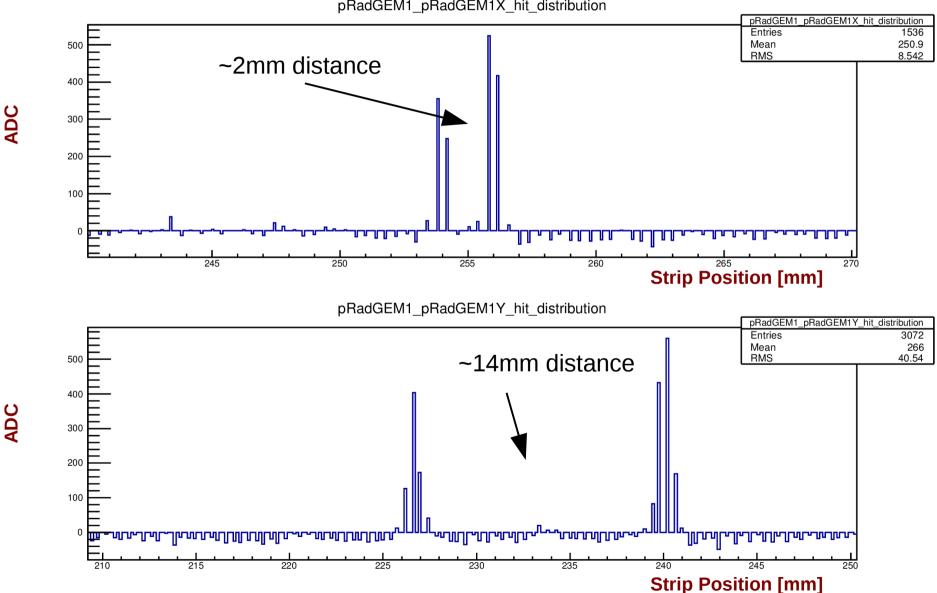


Event #9, Chamber 1



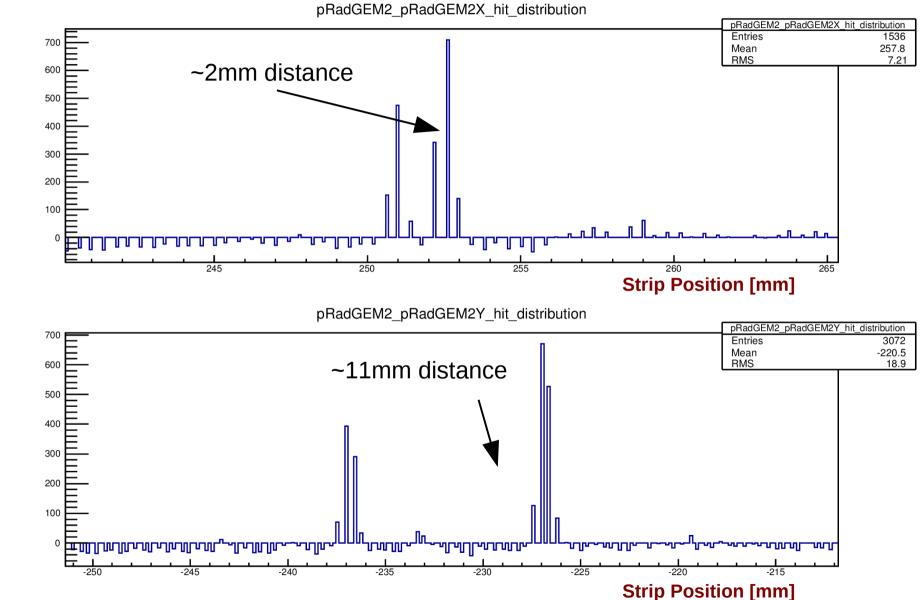


Event #19, Chamber 1



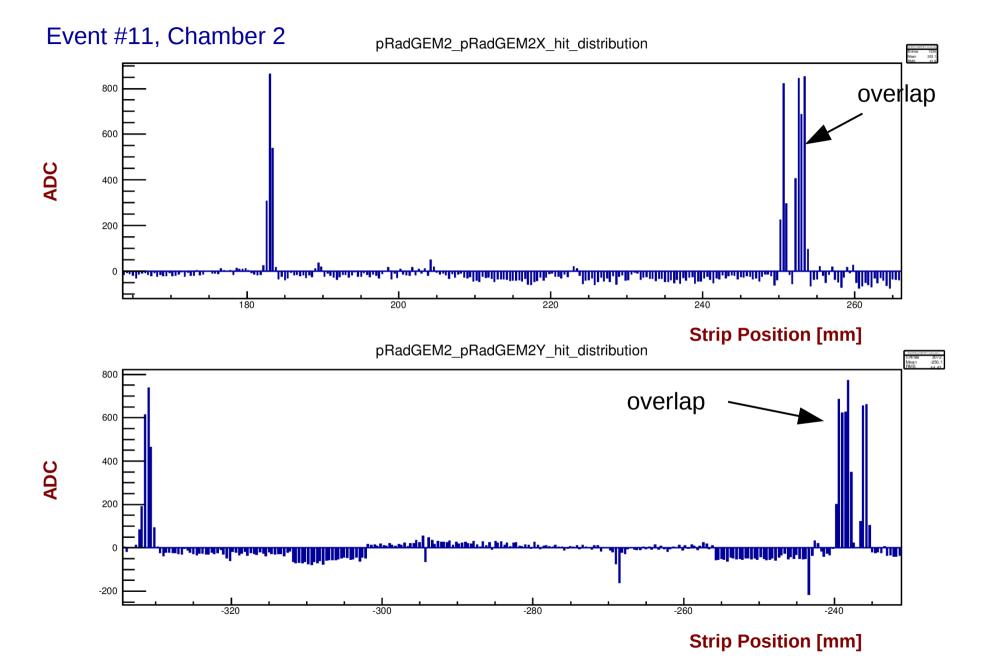
pRadGEM1 pRadGEM1X hit distribution

Event #19, Chamber 2



ADC

ADC



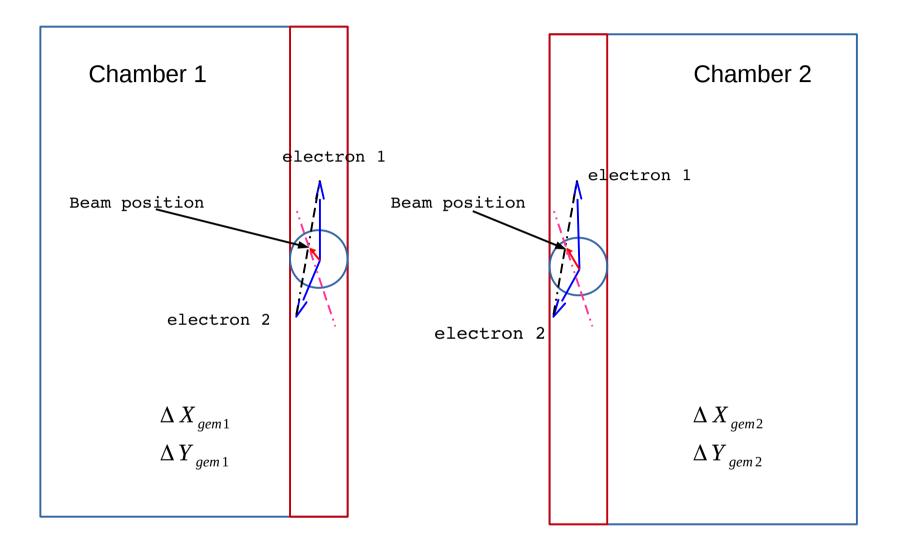
- 1), Single Cluster Event Ratio: ~9.3%
- 2), Double Cluster Event Ratio: ~20.6%
- 3), >= 3 Cluster Event Ratio: ~70.1%
- 4), If two clusters have about equal ADCs:

$$\left|\frac{ADC_{cluster1} - ADC_{cluster2}}{ADC_{cluster1} + ADC_{cluster2}}\right| < \frac{20}{100}$$

Cluster positions will be within ~20mm.

- 5), If ADCs have larger difference, Positions will have larger difference.
- 6), In most cases, HyCal has only 1 cluster. It does not set apart pairs.
- 7), For now, GEM take overlapped cluster as one cluster, re-writing clustering.
- 8), Distance from Scintillator to GEM: 16cm

Offsets From Production Run



In each Event: $X_{offst} = \Delta X_{gem2} - \Delta X_{gem1}$ $Y_{offst} = \Delta Y_{gem2} - \Delta Y_{gem1}$

Offsets From Production Run

