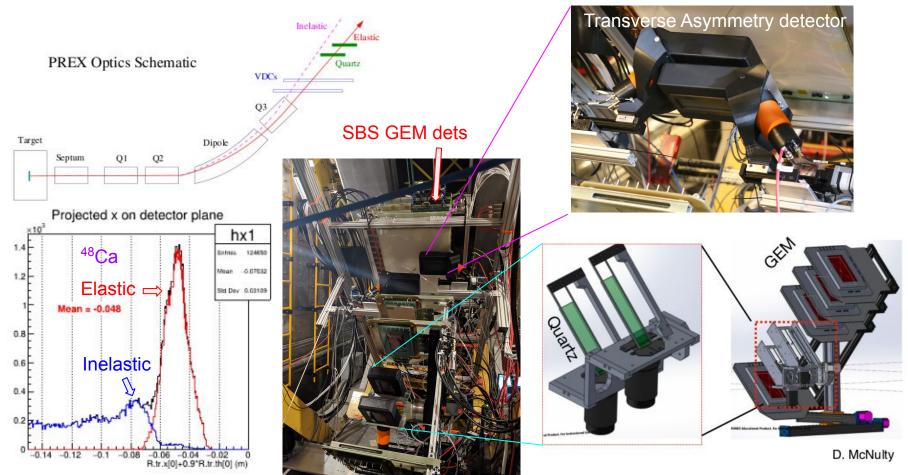
# PREX GEM data analysis update

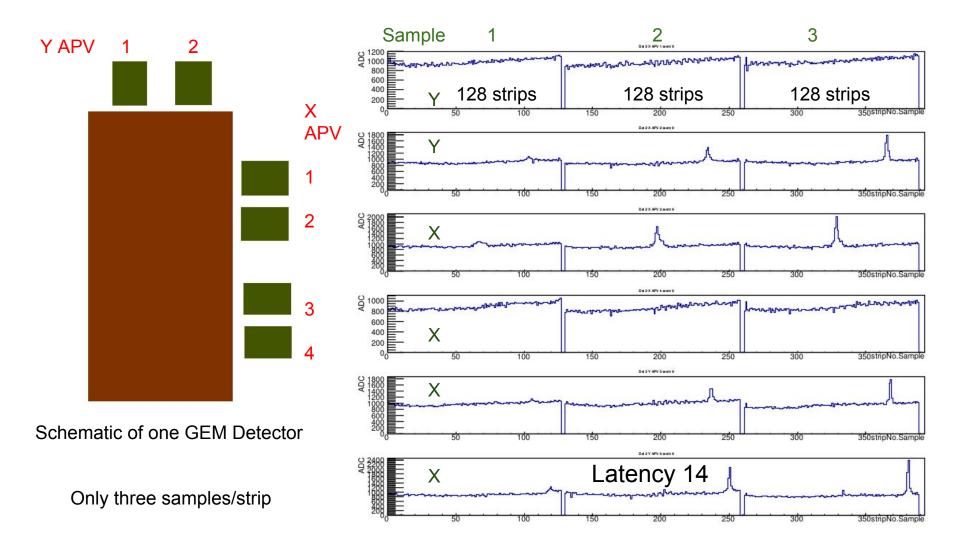
#### Chandan Ghosh (On behalf of PREX/CREX collaboration)

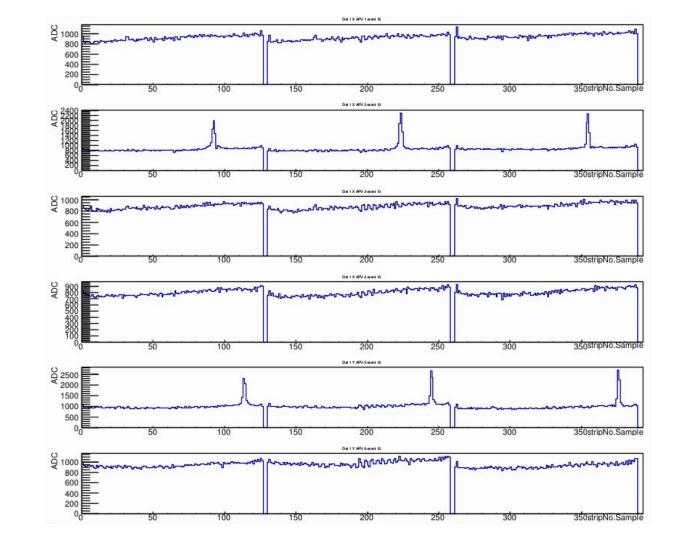




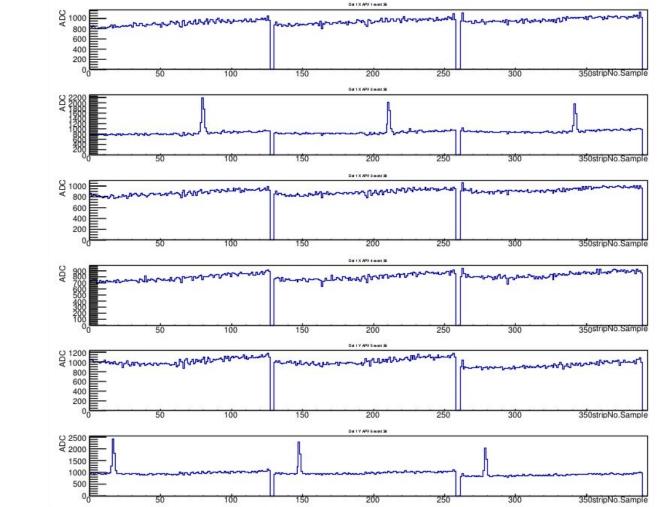
# **Detectors**





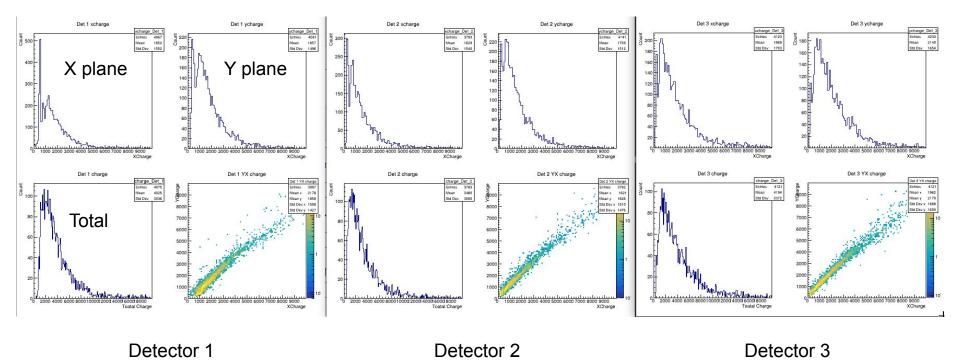


Latency 13

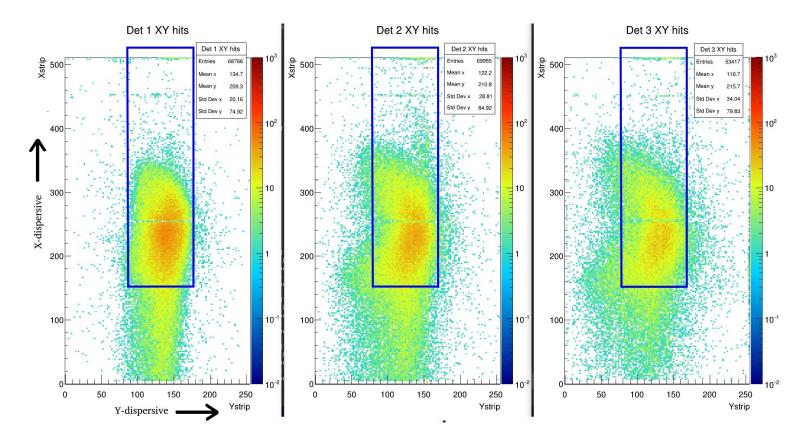


#### Latency 12

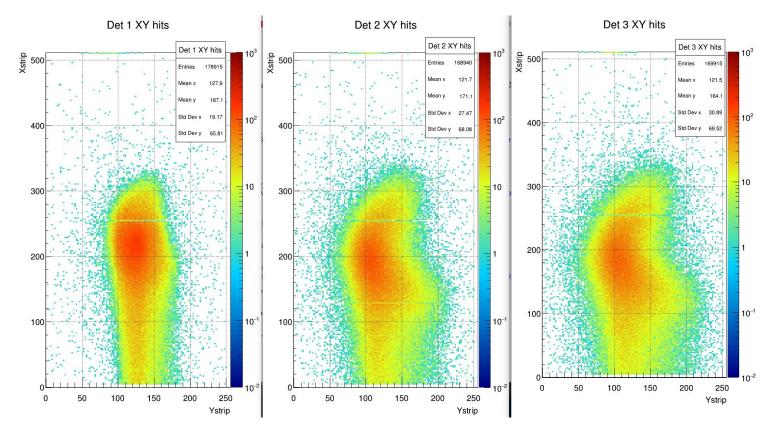
## Charge correlation between two planes



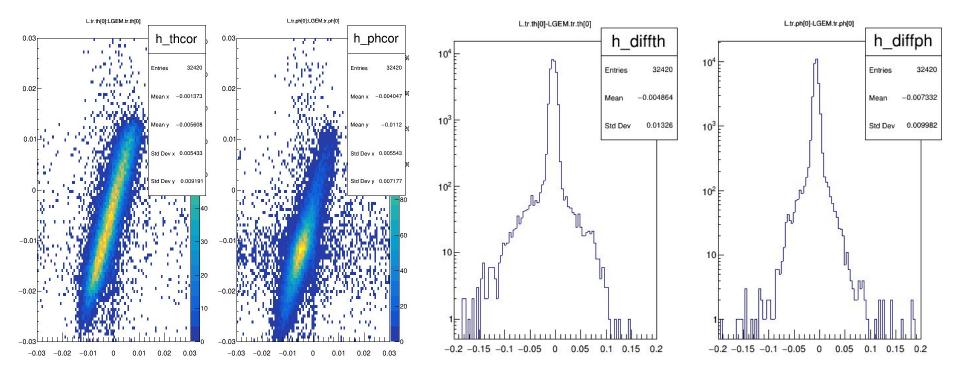
## Hit Distributions of GEM detector planes:LHRS



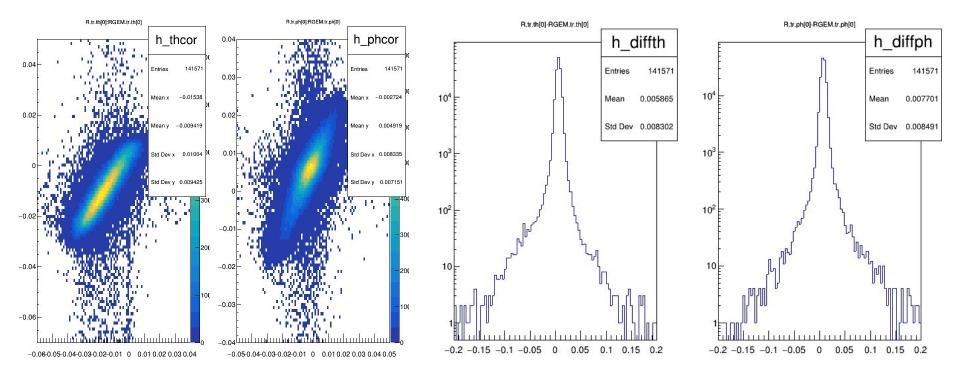
## Hit Distributions of GEM detector planes:RHRS



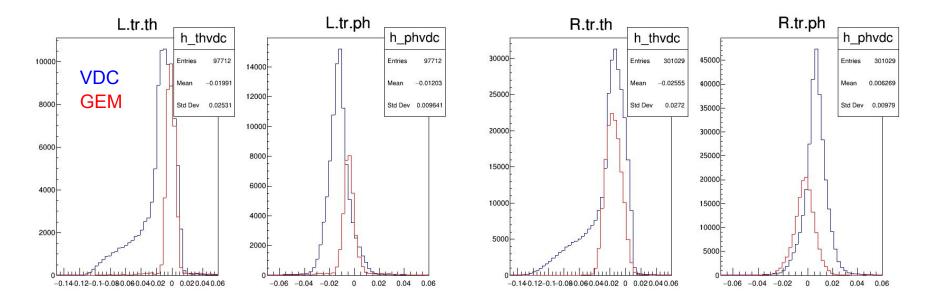
#### LHRS: VDC vs GEM Theta-Phi correlation



#### RHRS: VDC vs GEM Theta-Phi correlation



# Theta-Phi:VDC (Blue) & GEM (Red)



- GEM detector's offsets need to be adjusted Use VDC as reference
- Missing radiative tail Investigate GEM tracking further

# Issues and path forward

- analyzer: Can't handle the maximum number of channels required for GEM setup in the HRS.
- Still using local copy of analyzer the analyzer on a-onl machines doesn't work.
- Use VDC as reference and align the GEM detectors.
- No Sieve data with the GEM detectors exist. We have to project GEM tracks to the VDC focal plane and use VDC database for reconstruction
- Analyze the large GEM detectors data too