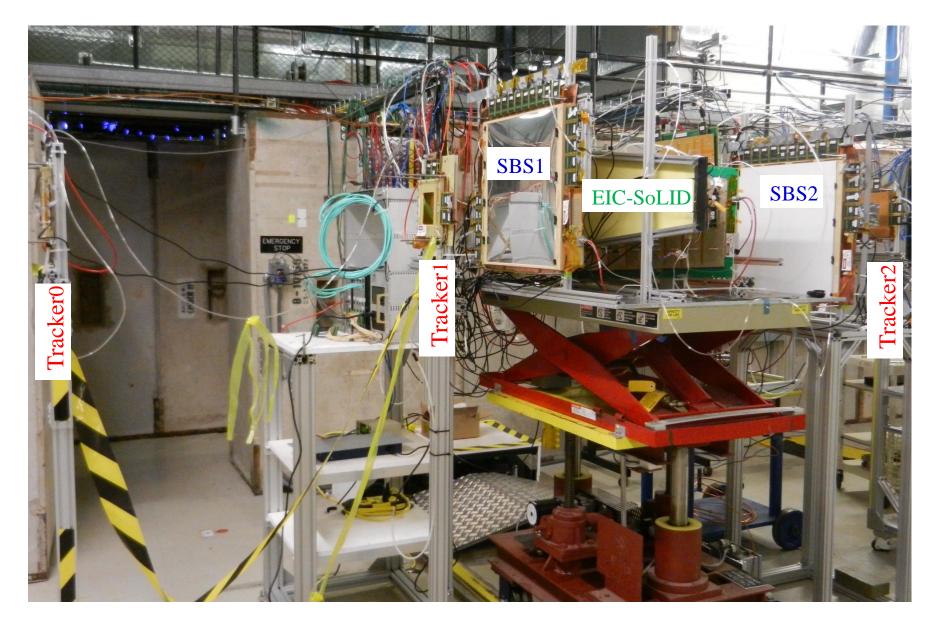
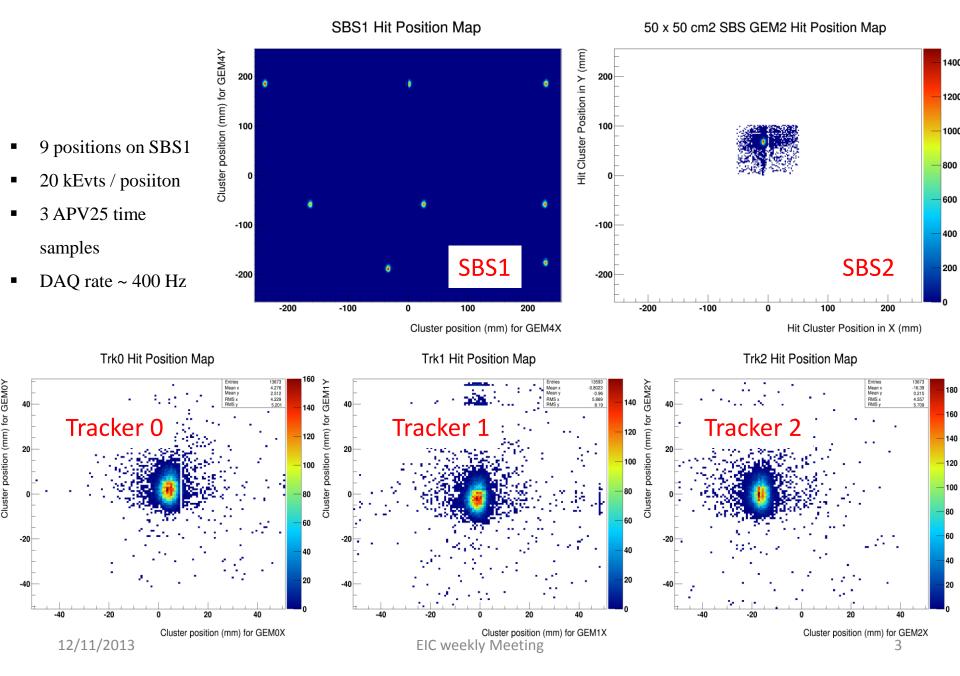
FNAL-FTBF Beam Test Preliminary Results from UVa

K. Gnanvo, N. Liyanage, V Nelyubin, C. Gu, Y. Zhao, X. Bai

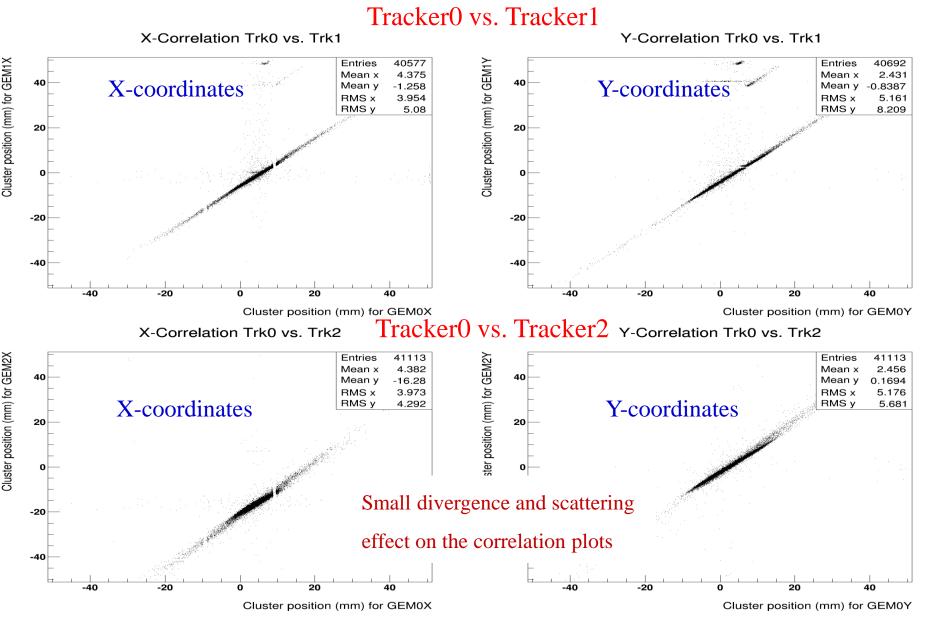
UVa & Florida tech FNAL Test Beam Setup



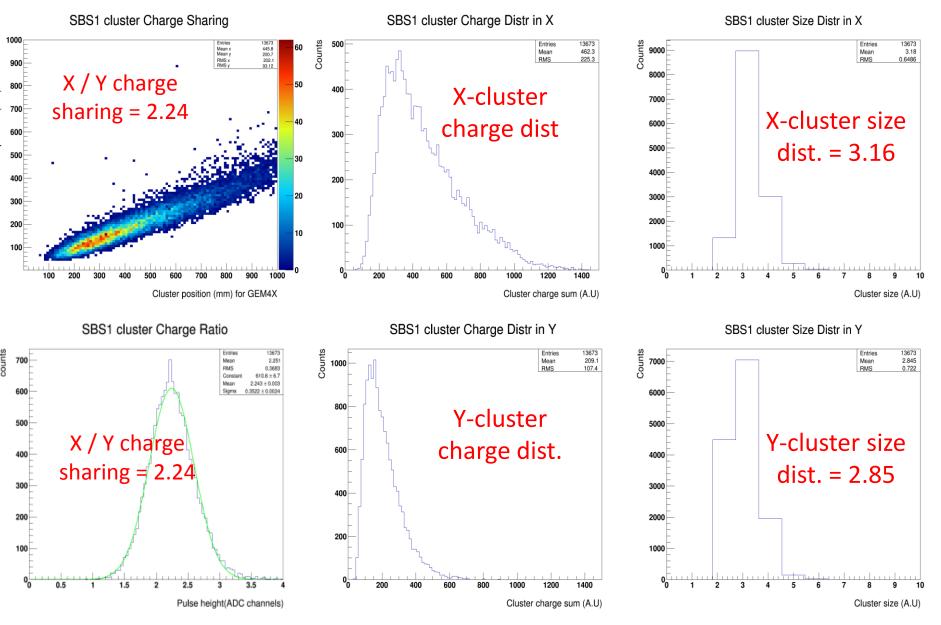
120 GeV Protons Beam: Position scan of SBS1



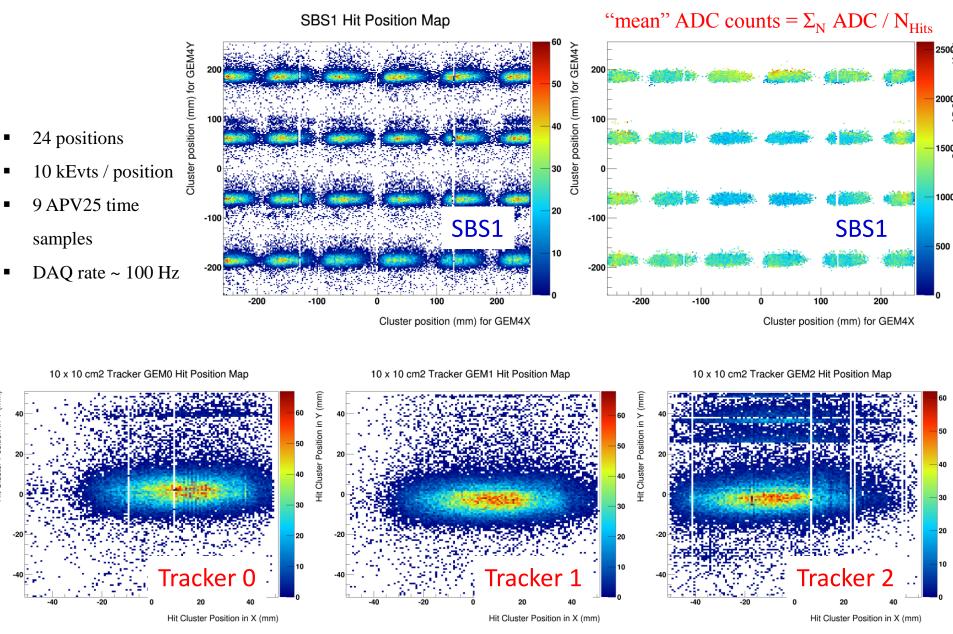
120 GeV Protons Beam: Position correlation of the small trackers



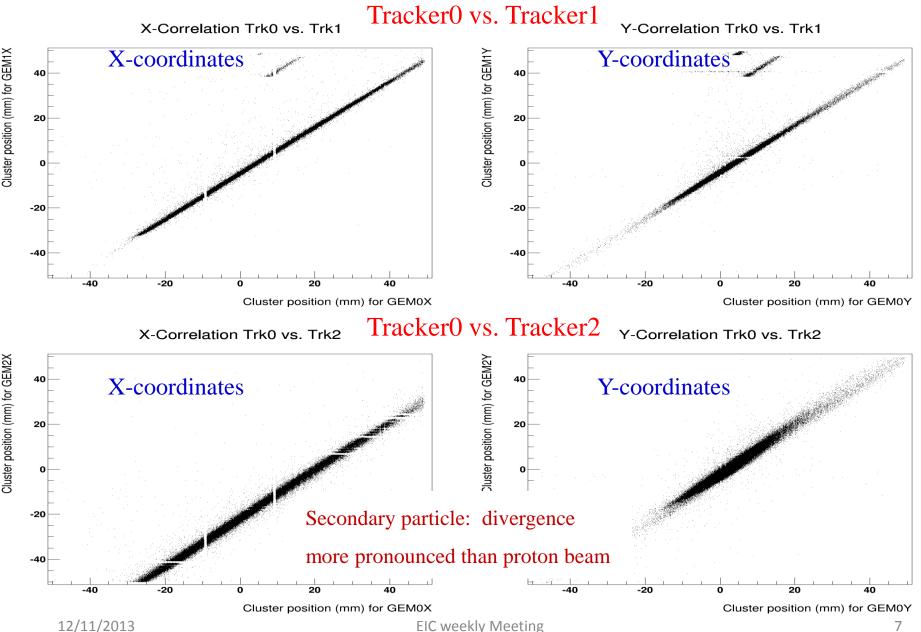
120 GeV Protons Beam: SBS1 correlation of the trackers



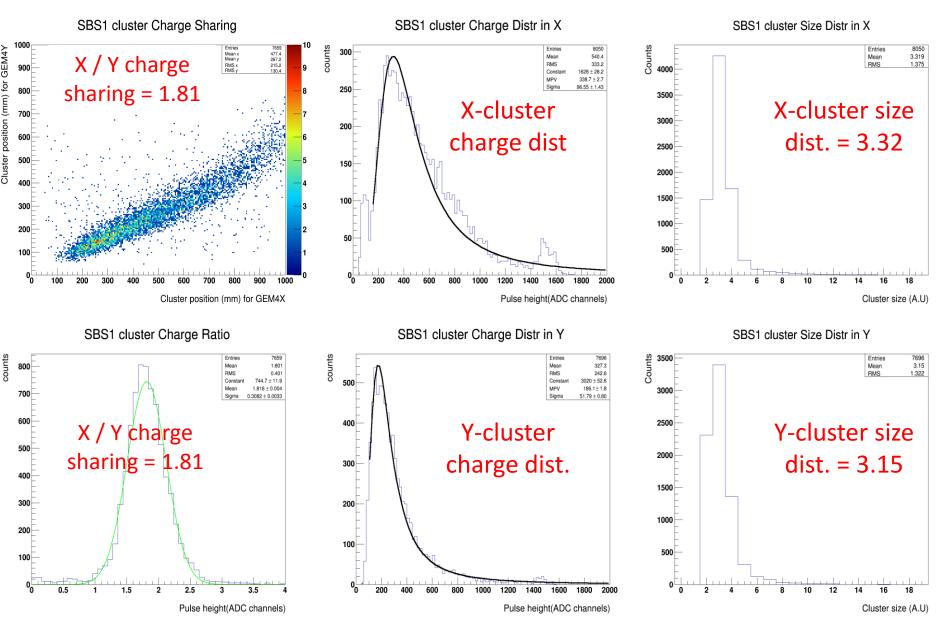
25 GeV Hadrons Beam: Position scan of SBS1



25 GeV Hadrons Beam: Position correlation of the small trackers



120 GeV Protons Beam: SBS1

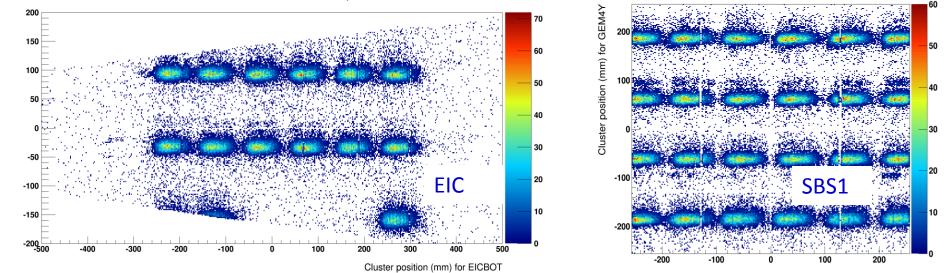


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EIC-SoLID and SBS1: 25 GeV Hadron beams Position Scan

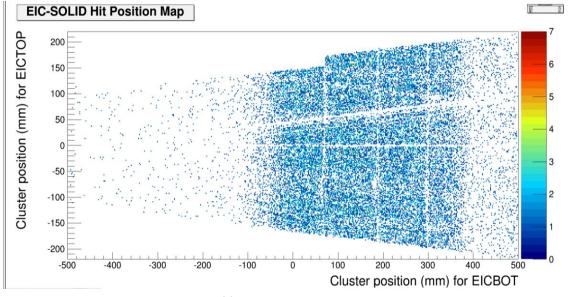
EIC-SOLID Hit Position Map

SBS1 Hit Position Map



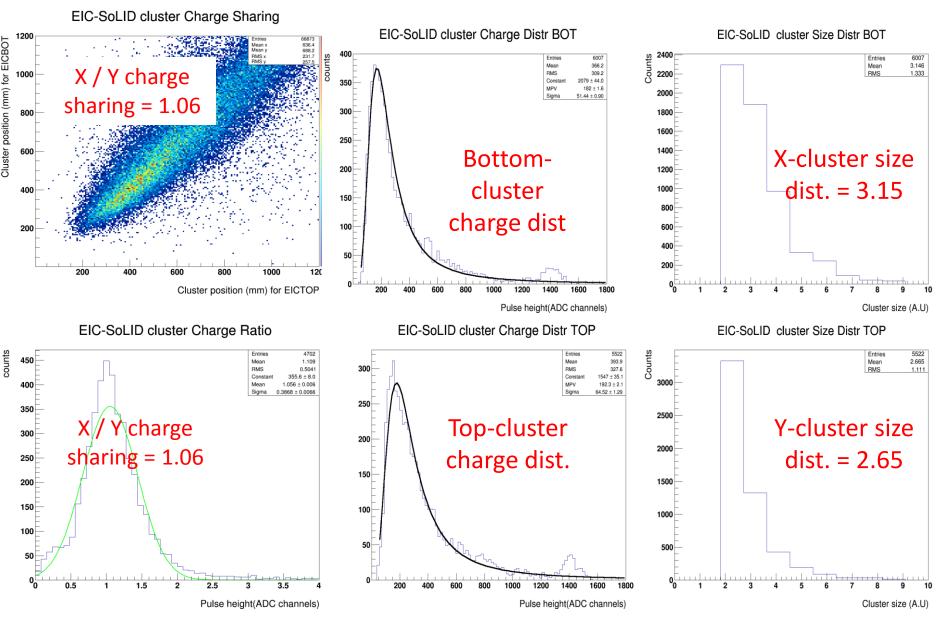
Cluster position (mm) for GEM4X

EIC-SoLID: Cosmic data



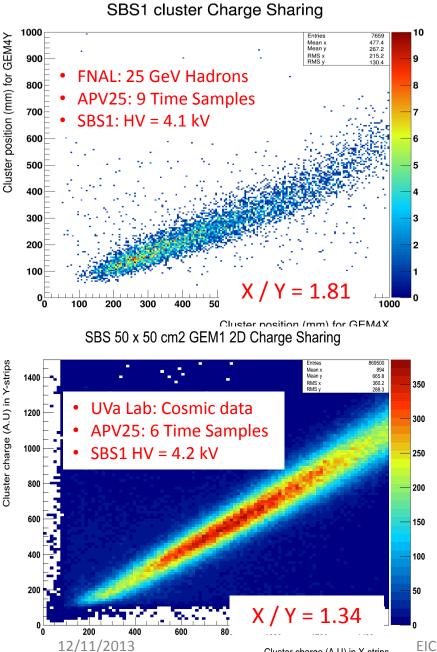
EIC weekly Meeting

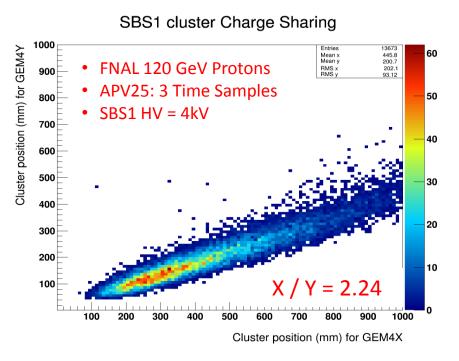
Cosmic data (UVa, Dec. 2013): EIC-SoLID



12/11/2013

Charge sharing conundrum with SBS1





Big variation of the charge sharing for different data taking

Possible candidates:

- Gas flow
- Gas pressure
- Particle rate
- Electronics ?

Under investigation

Cluster charge (A.U) in X-strips EIC weekly Meeting

Summary and To do List

- Ongoing analysis of the data form the beam test at FNAL
 - Preliminary data are very good for all chambers
 - Some issues with charge sharing with the SBS1 chamber to be understood
 - EIC-SoLID chamber working very well → mapping puzzle needed to be sorted out
 - Nice position correlation plots from the trackers → small divergence of the beam from multiple scattering
- To do
 - Study of the spatial resolution of SBS and EIC-SoLID chambers
 - Need to understand the charge sharing variation
 - Get results ready for publication