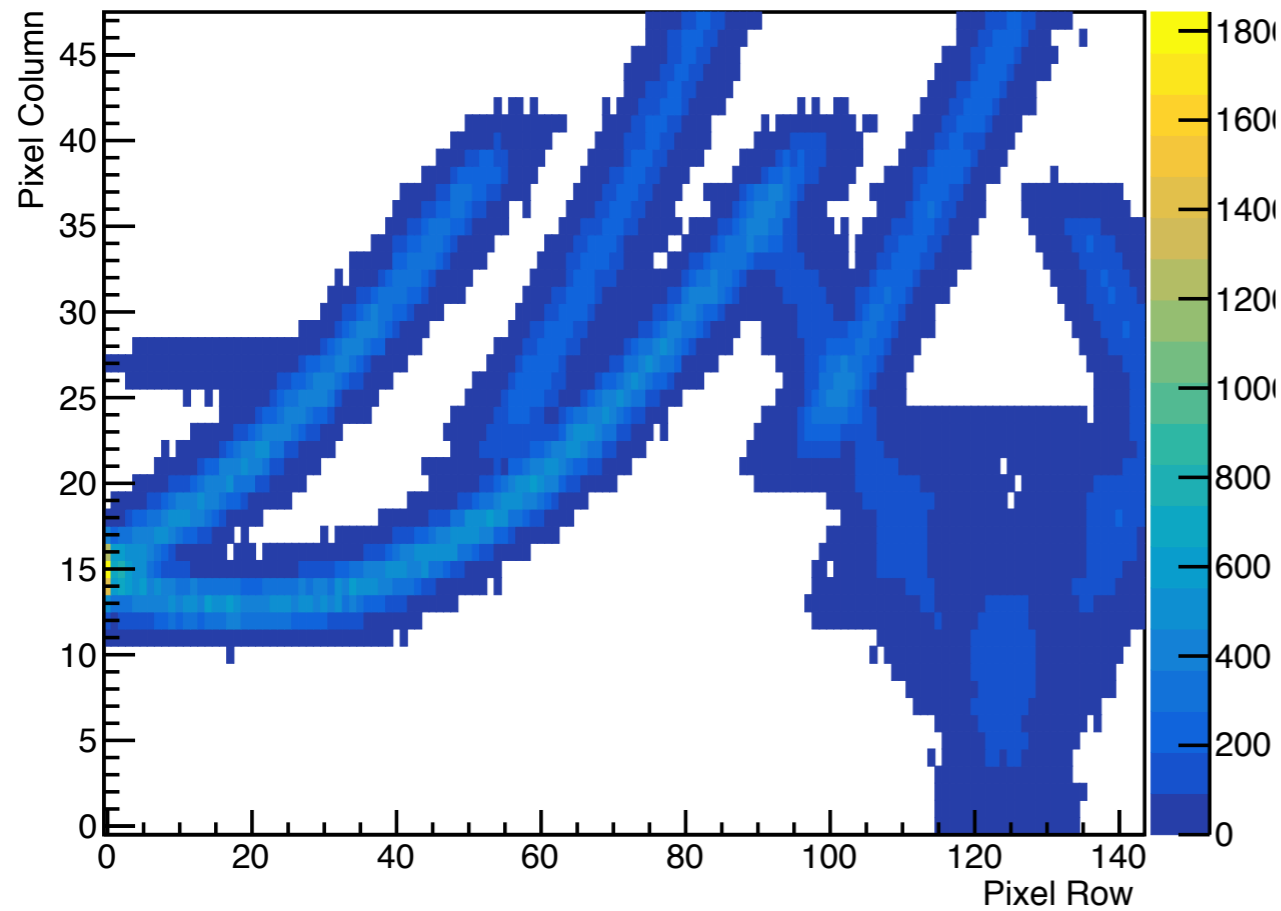


Integrating FastDIRC into GlueX framework

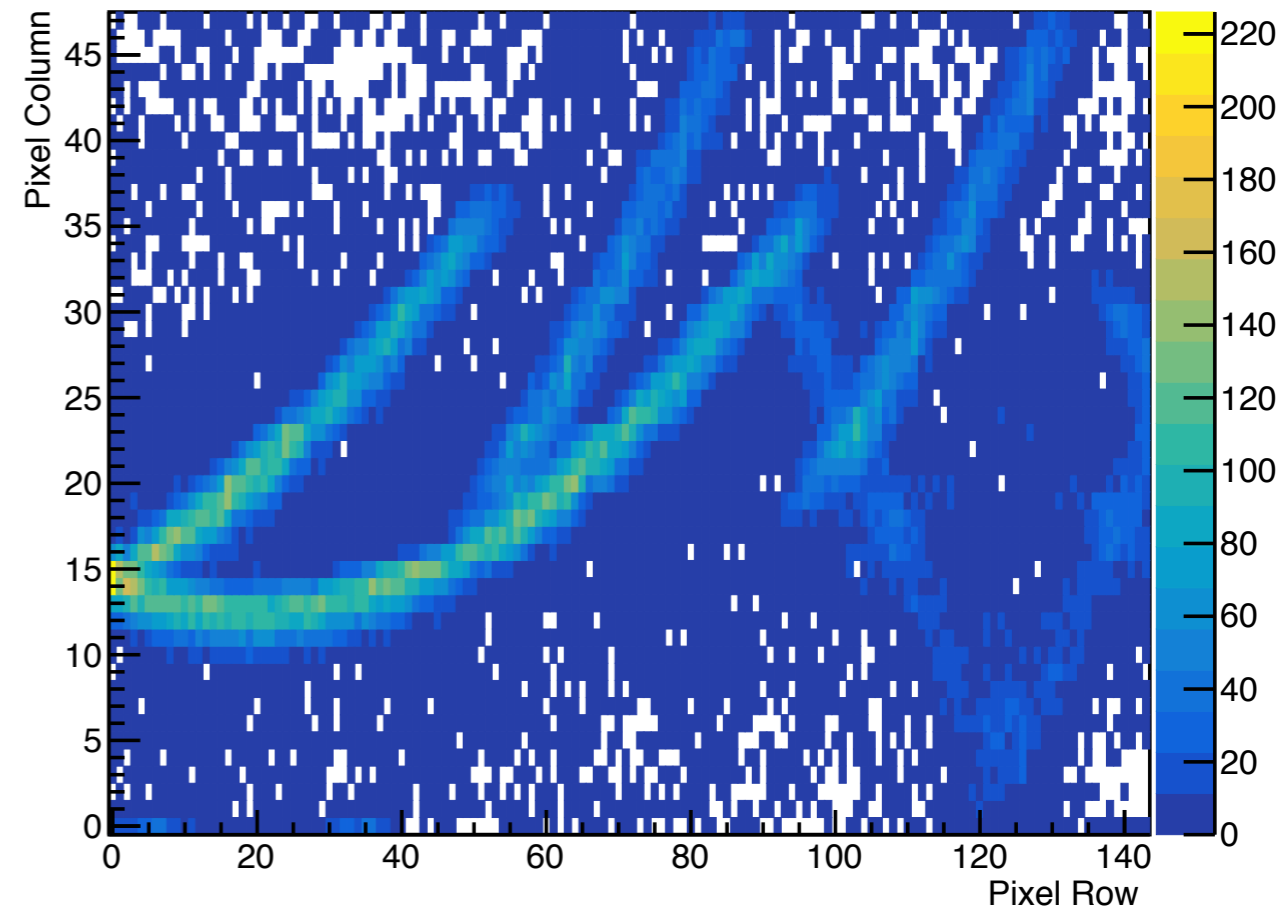
- FastDIRC [1608.01180]:
 - a novel fast ray-tracing method (simulation)
 - Per-particle PDF-based reconstruction
- Integration strategy:
 1. Validate geometry: compare FastDIRC simulation results with HDGeant4 results, given same xml geometry input
 2. Add FastDIRC reconstruction method in halld_recon

FastDIRC (almost) out-of-the-box

FastDIRC bar 3



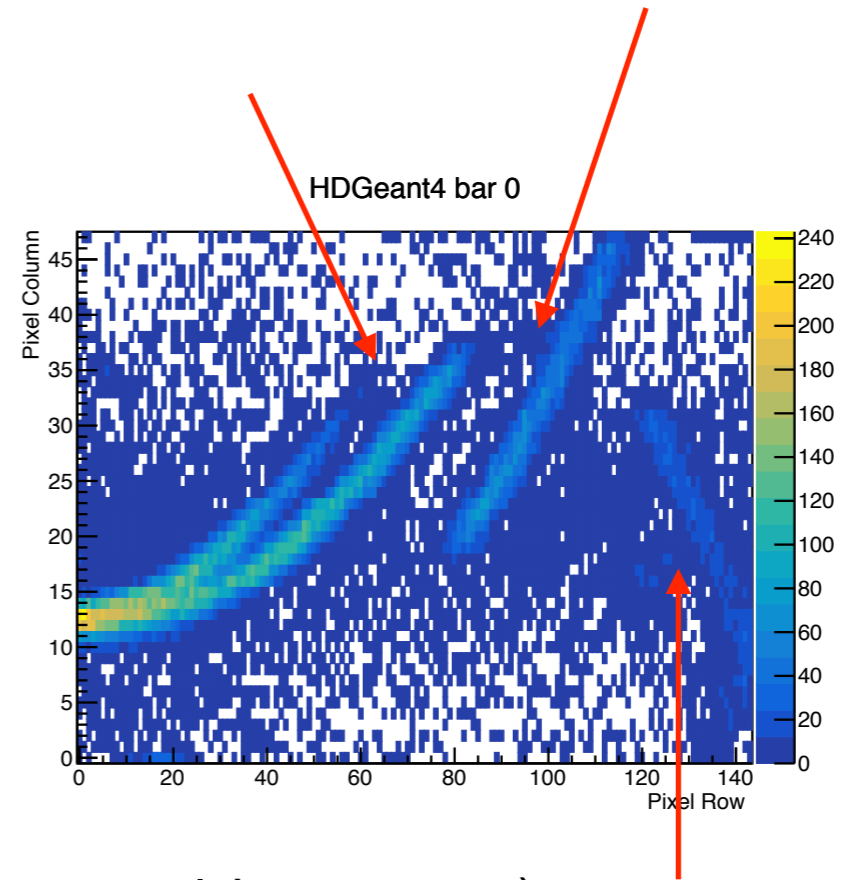
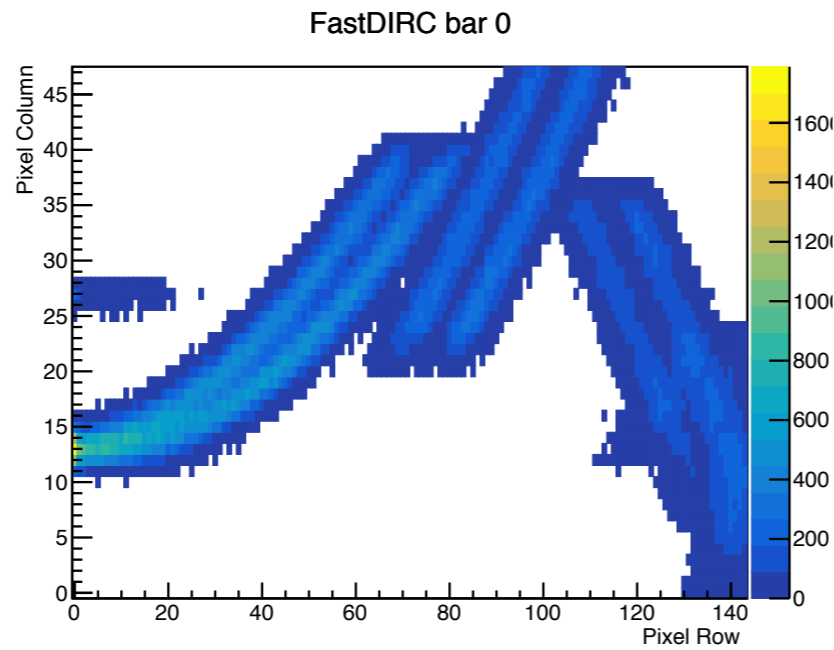
HDGeant4 bar 3



5 GeV pions impinging perpendicularly into bar 3

Obvious issues

Missing stripes:



Slight difference in geometry (not common xml input yet):

