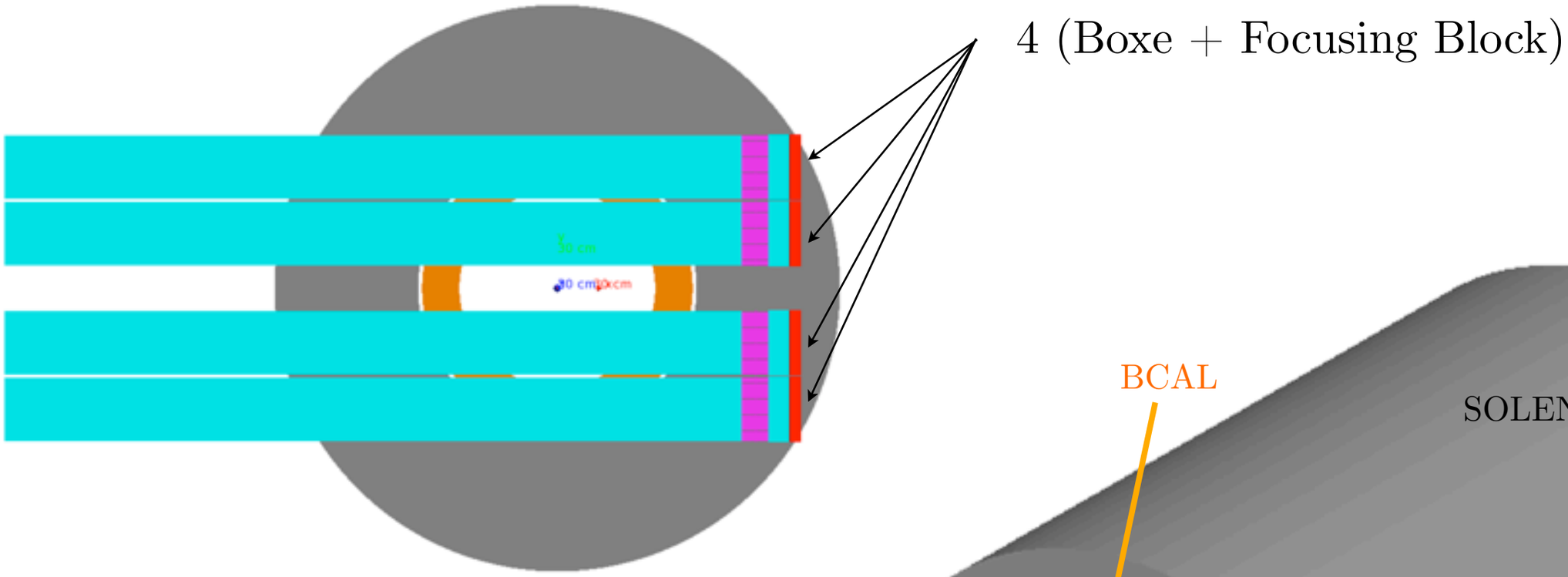
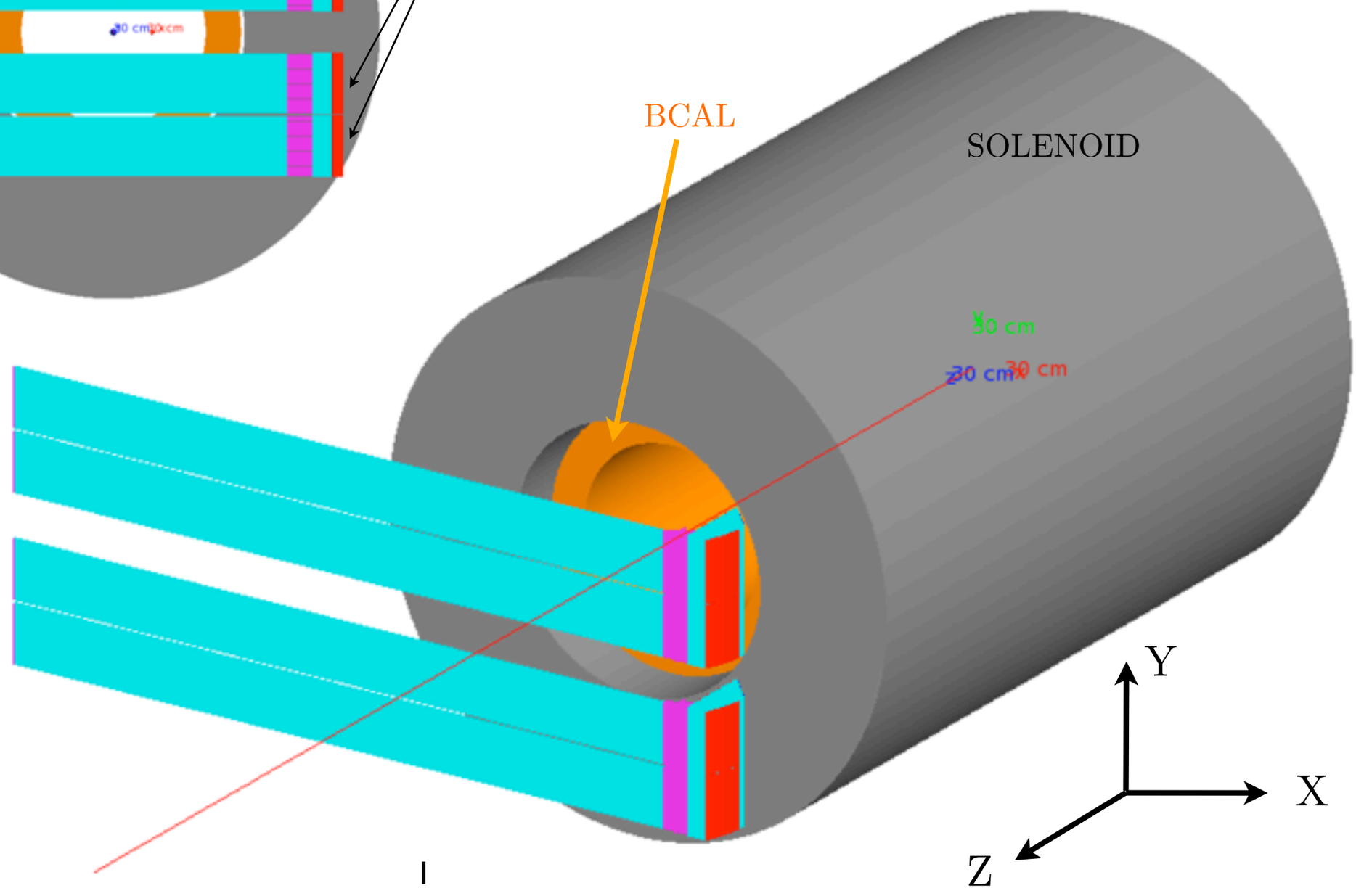
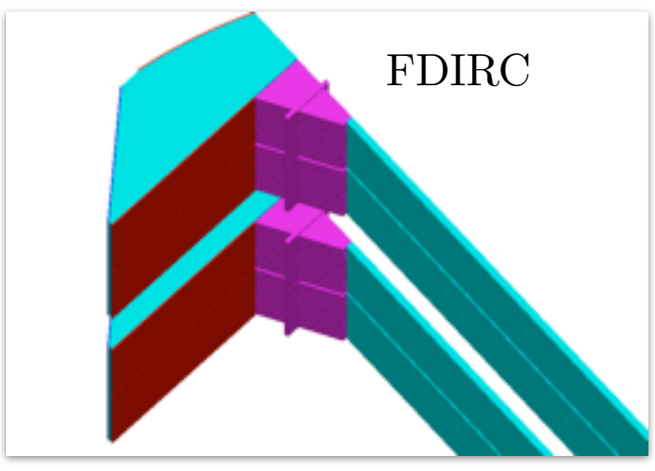
Focusing DIRC @ GlueX:





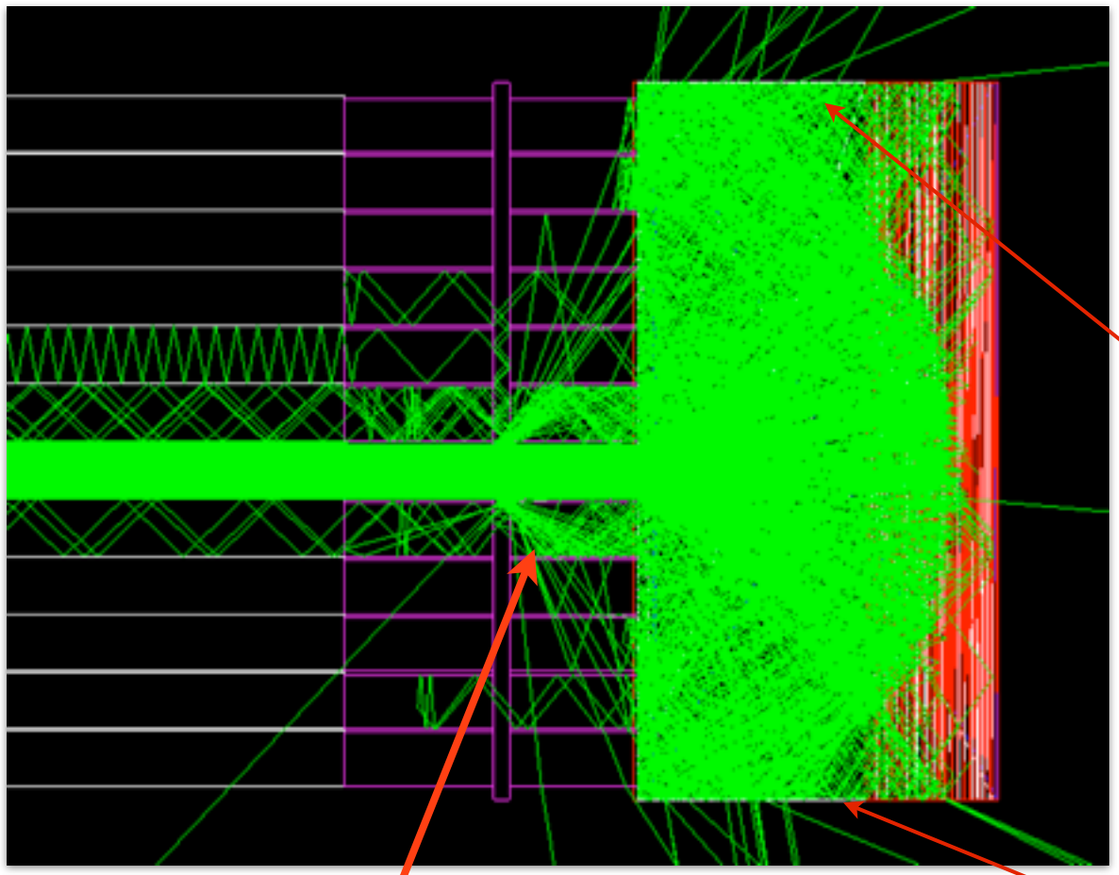


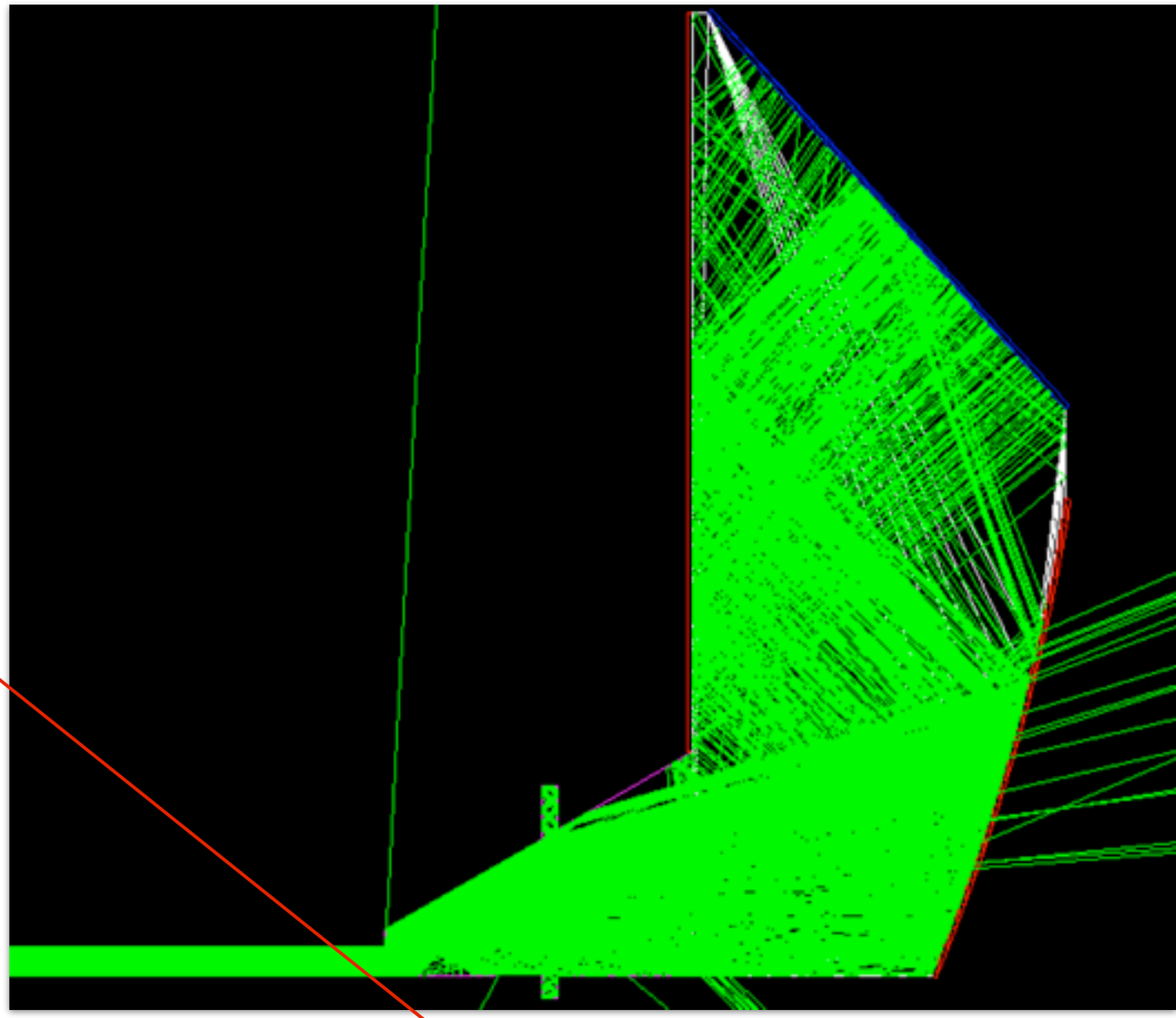
For the following:

- 100 identical events are thrown perpendicularly to one bar (in the middle of one FBlock)
- We vary the incoming particle energy from 2 GeV to 5 GeV
- Binning= 5mm X 4.5mm

  30ps in t (corresponding to expected MCP-PMT resolution)

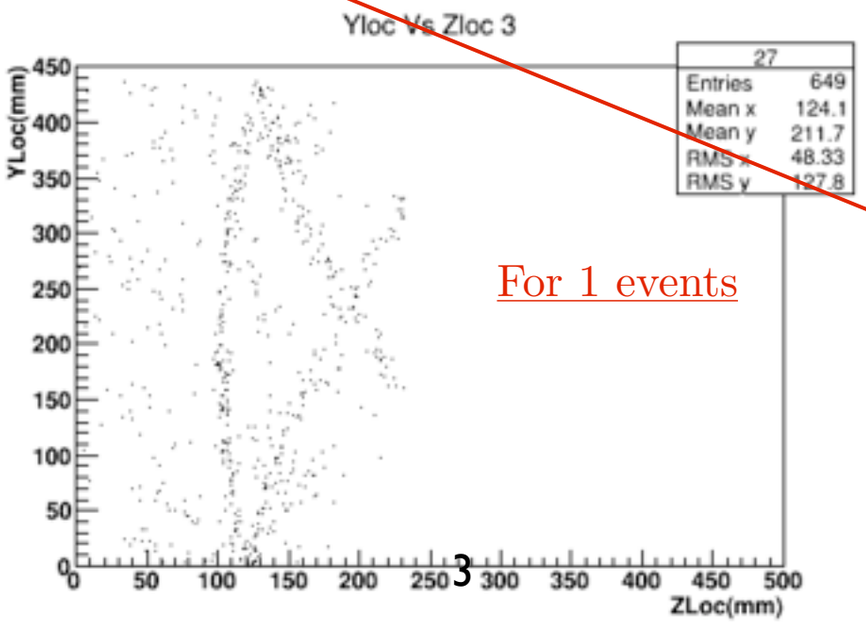
One event thrown perpendicularly to one bar:



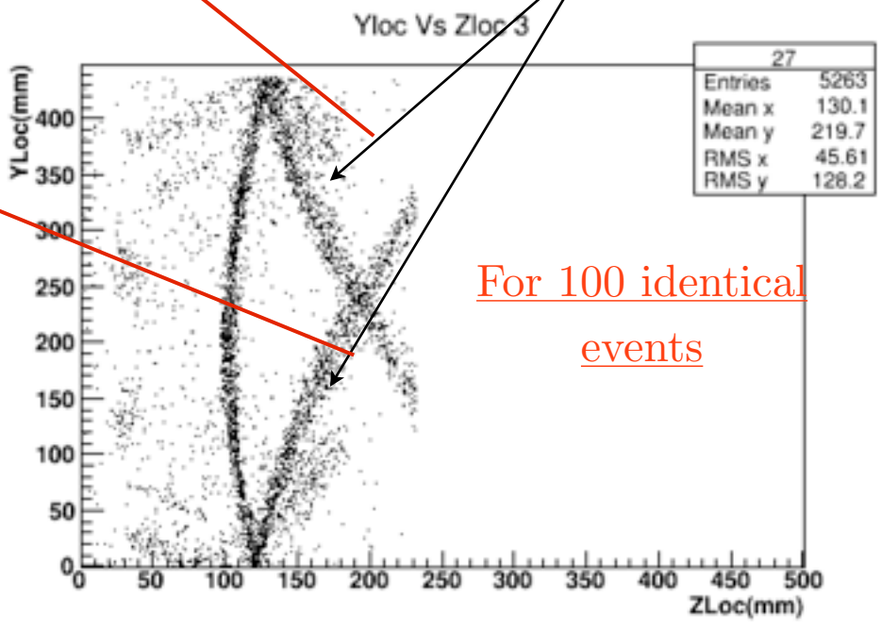


Refection from FBLOCK edges

One can see here that the window introduce some «leaks» to the other bars

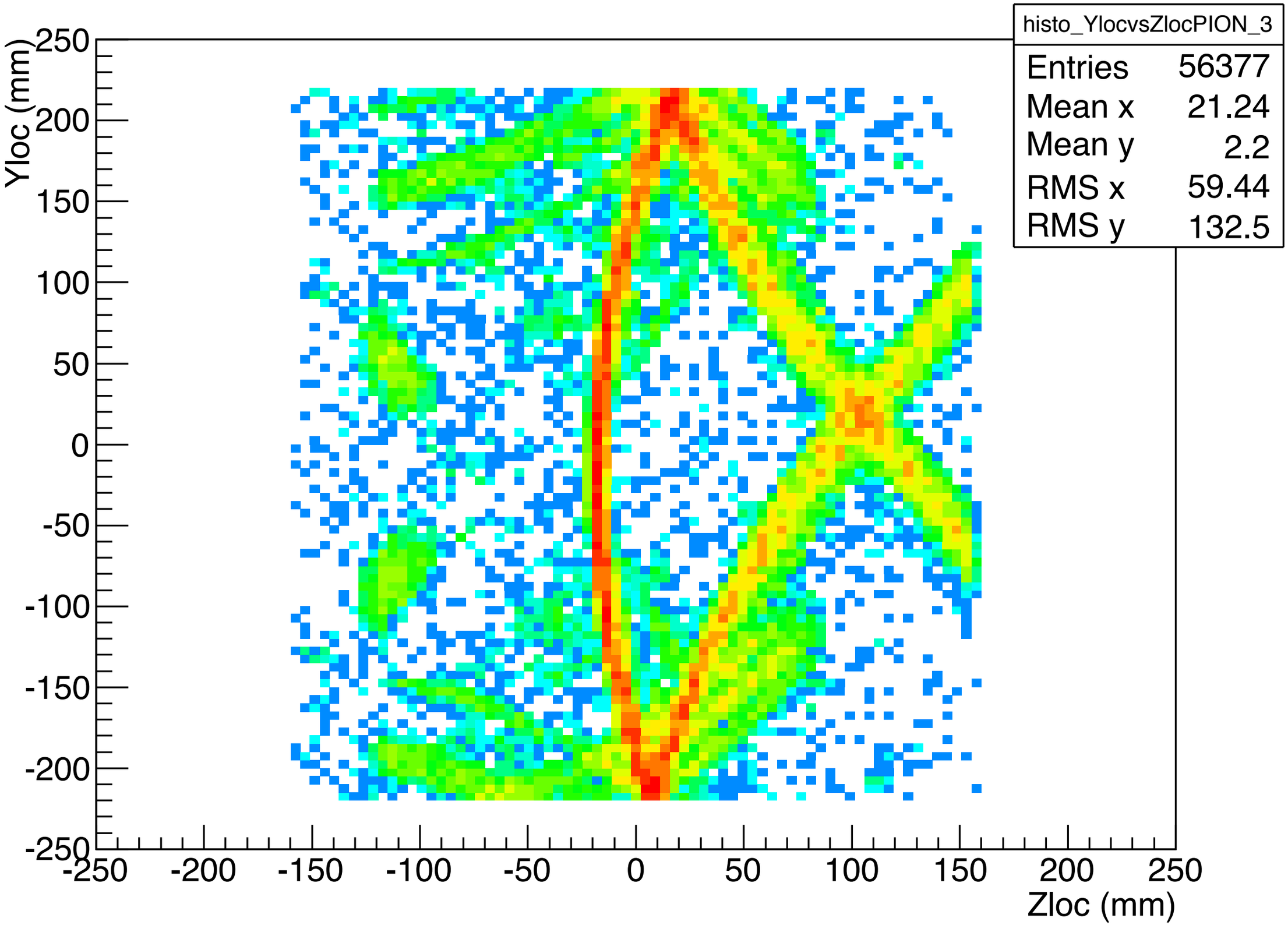


For 1 events



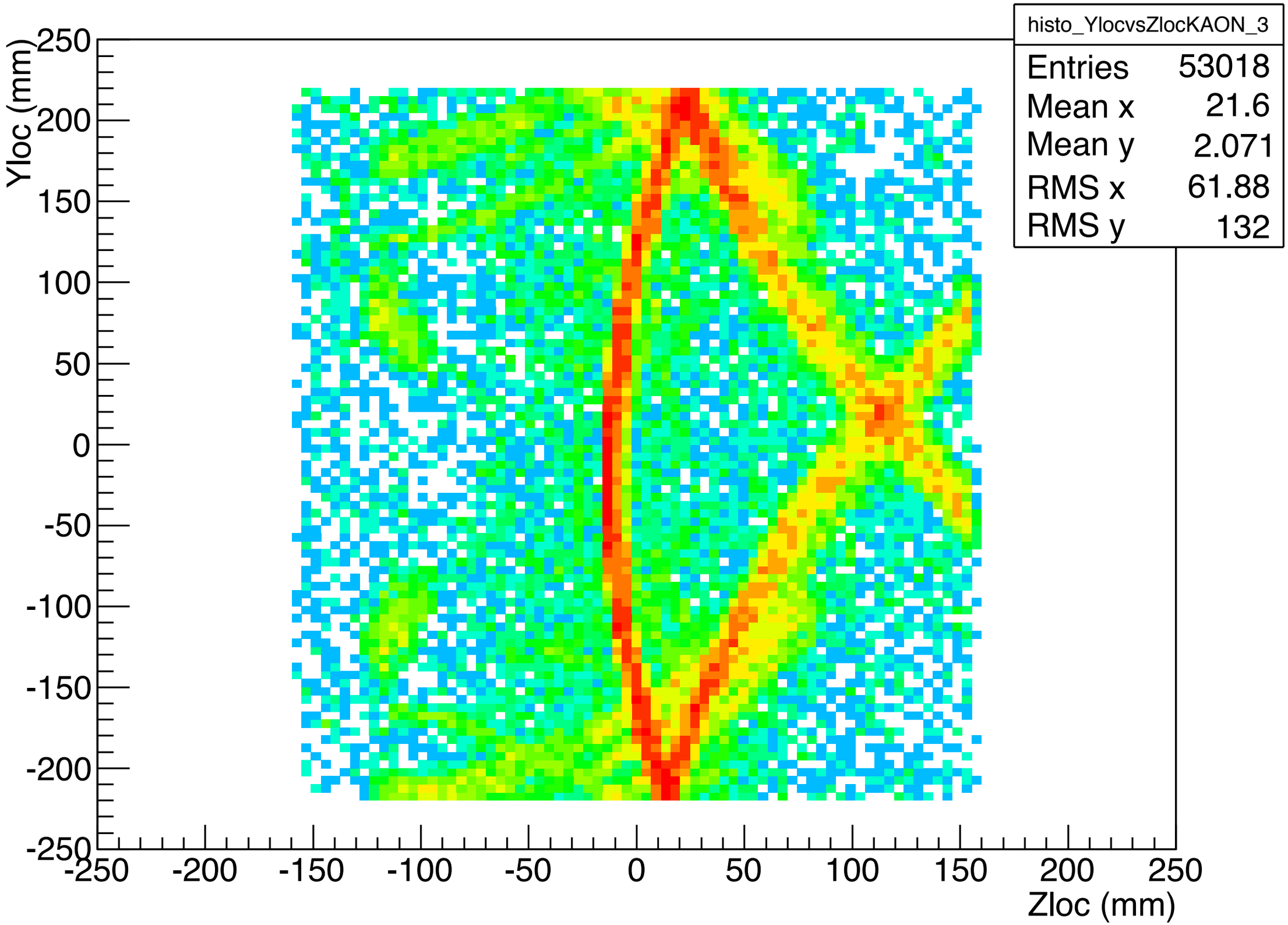
For 100 identical events

Example occupancy Pion 3 GeV



Alternate between slide 4 and 5

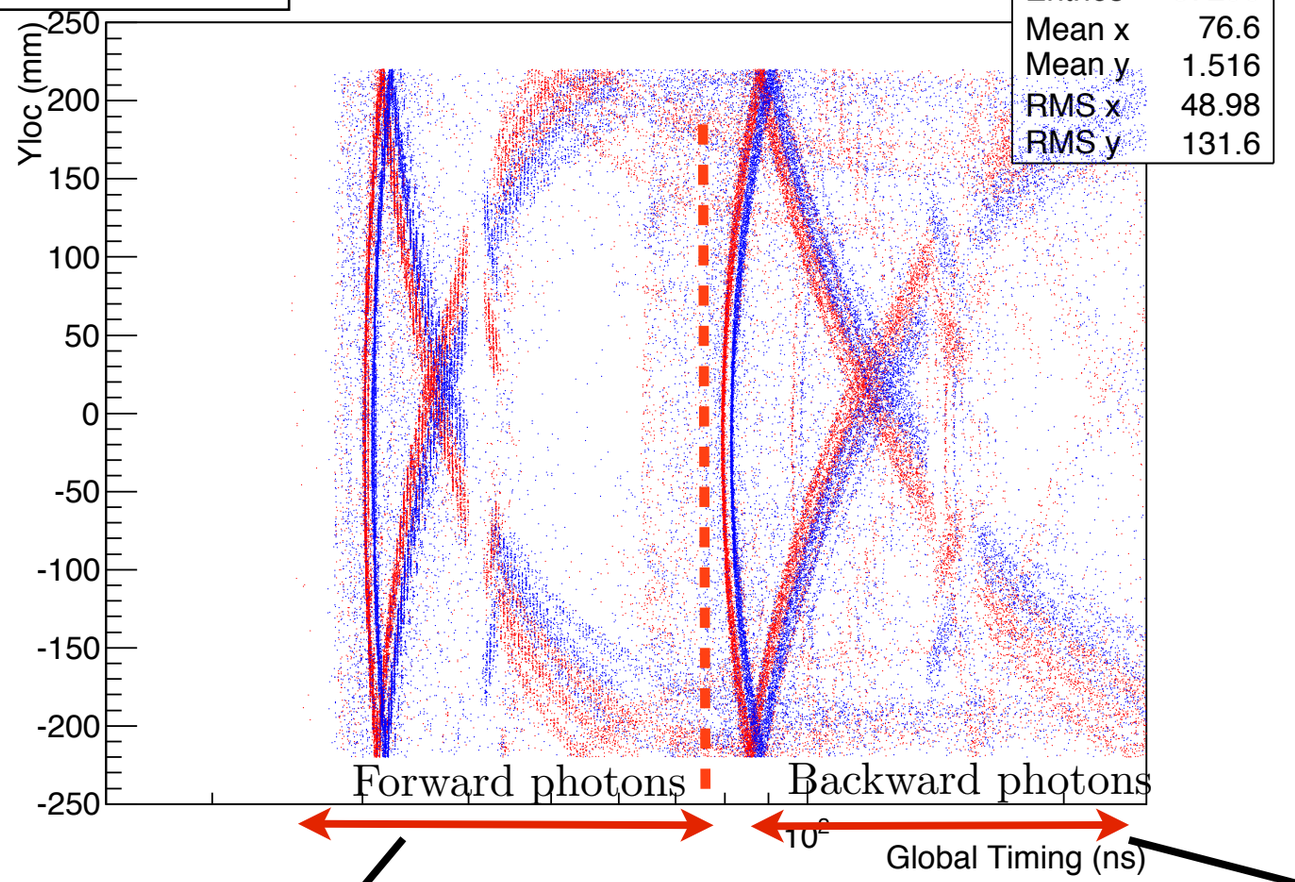
Example occupancy Kaon 3 GeV

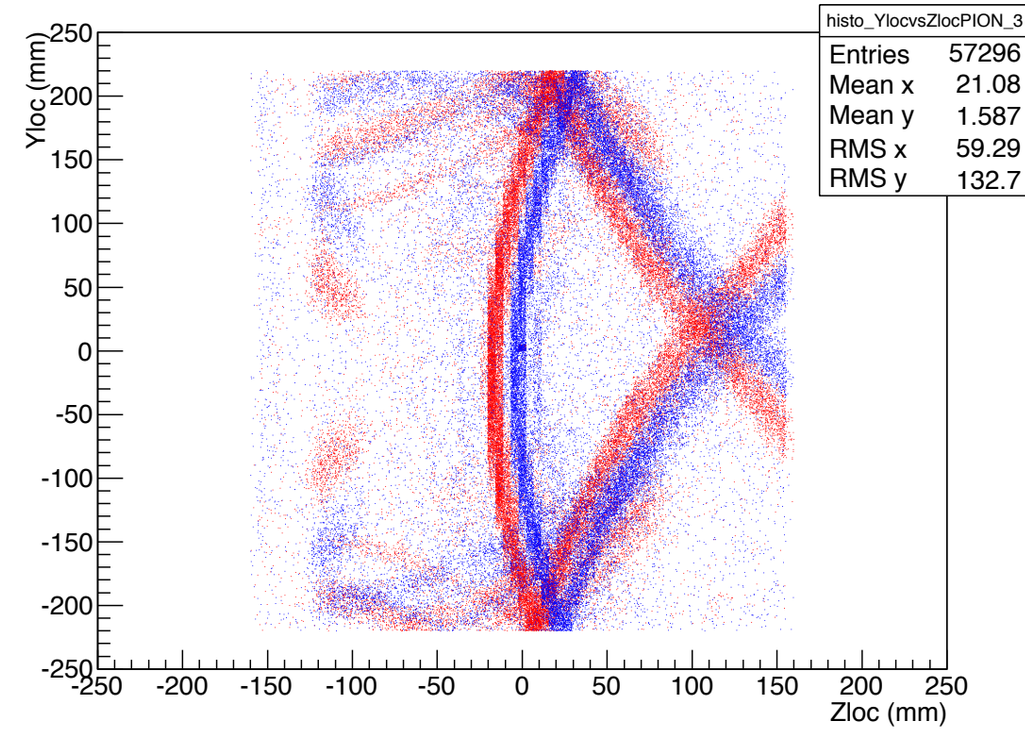


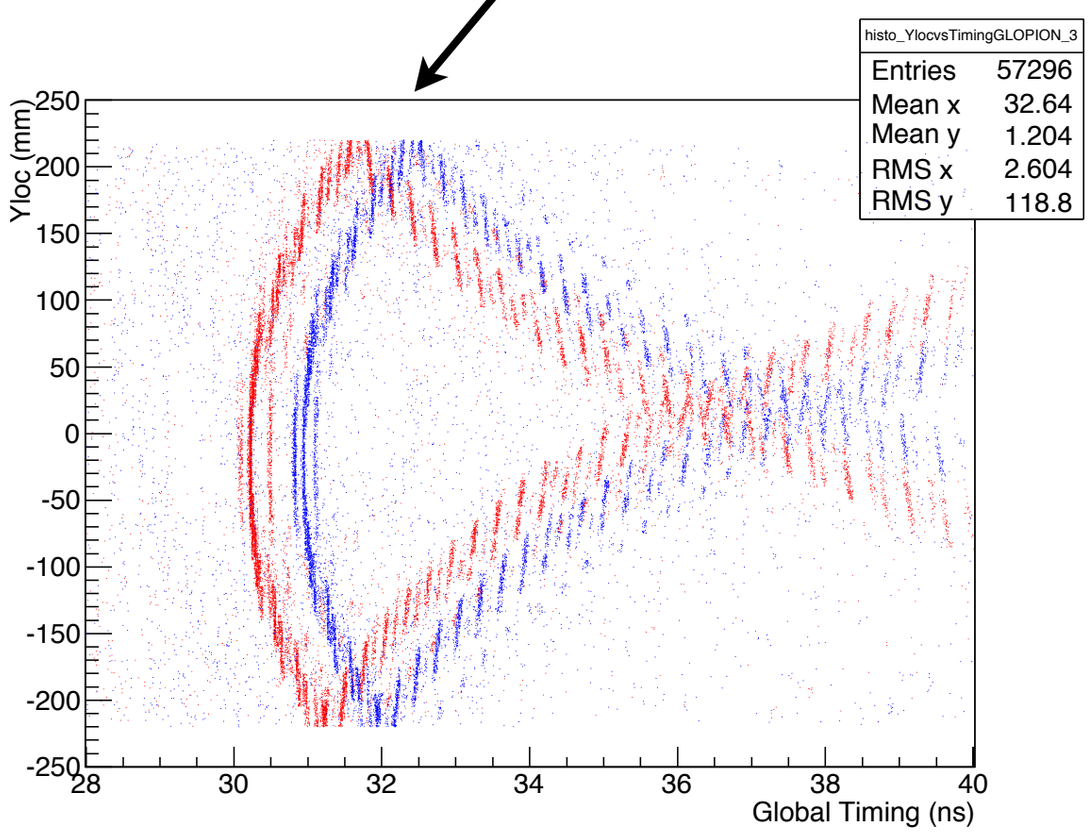
Alternate between slide 4 and 5

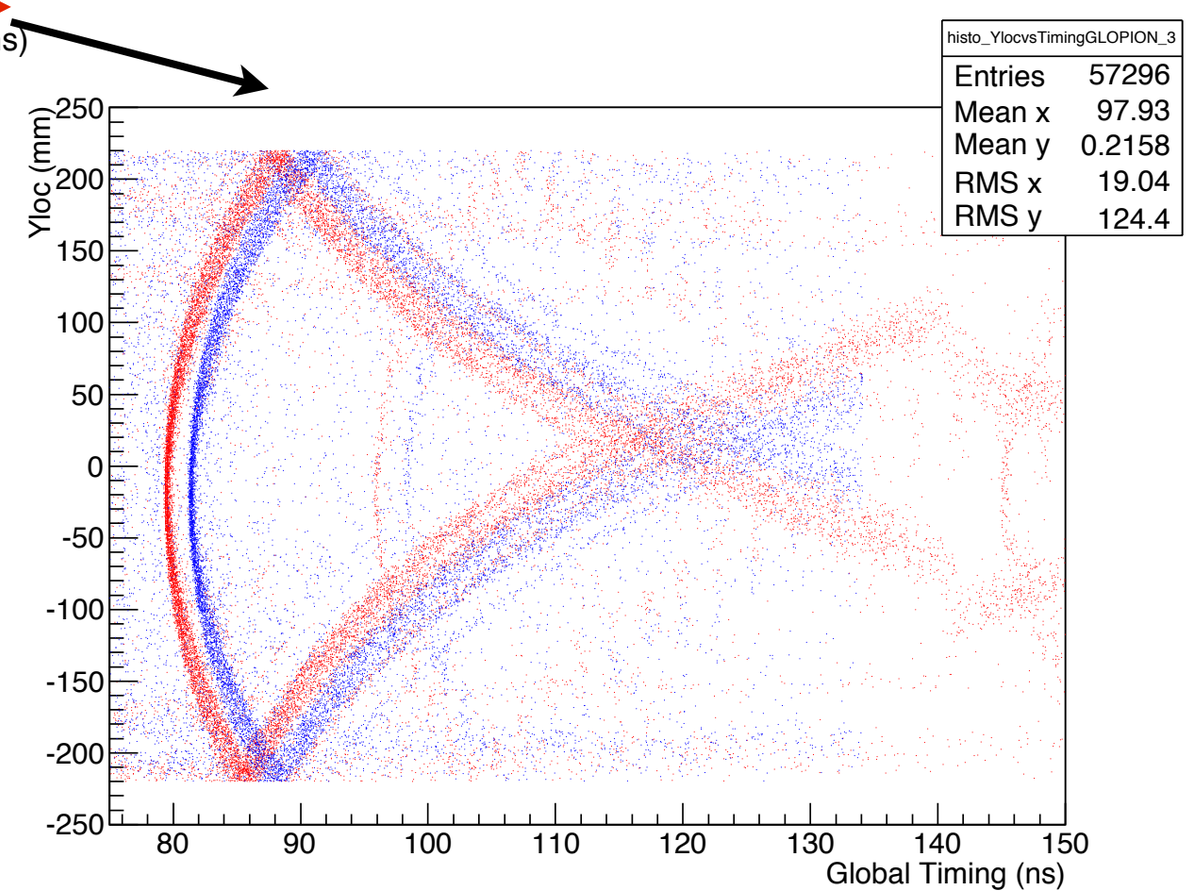
p=2 GeV

Pion Kaon



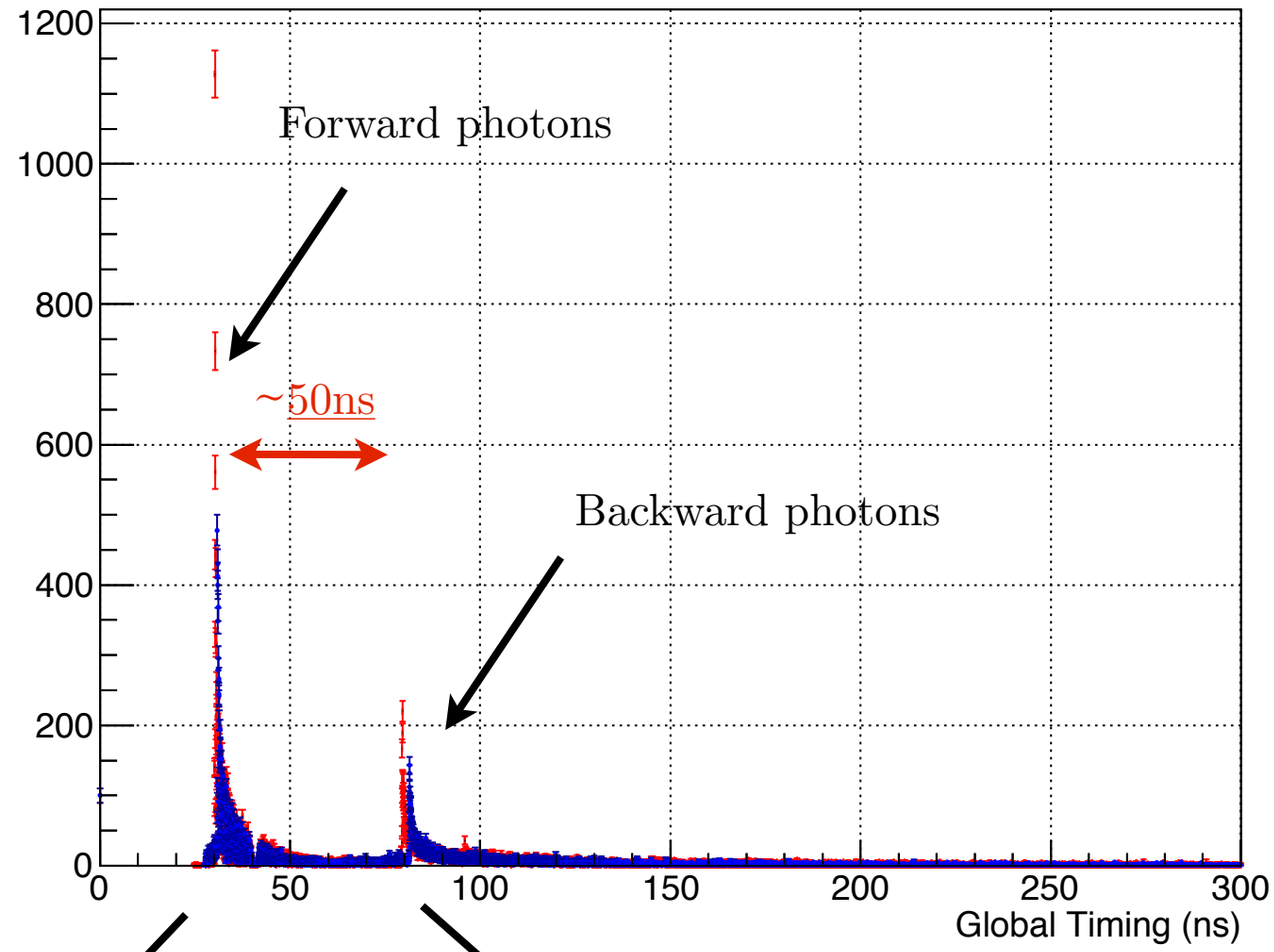


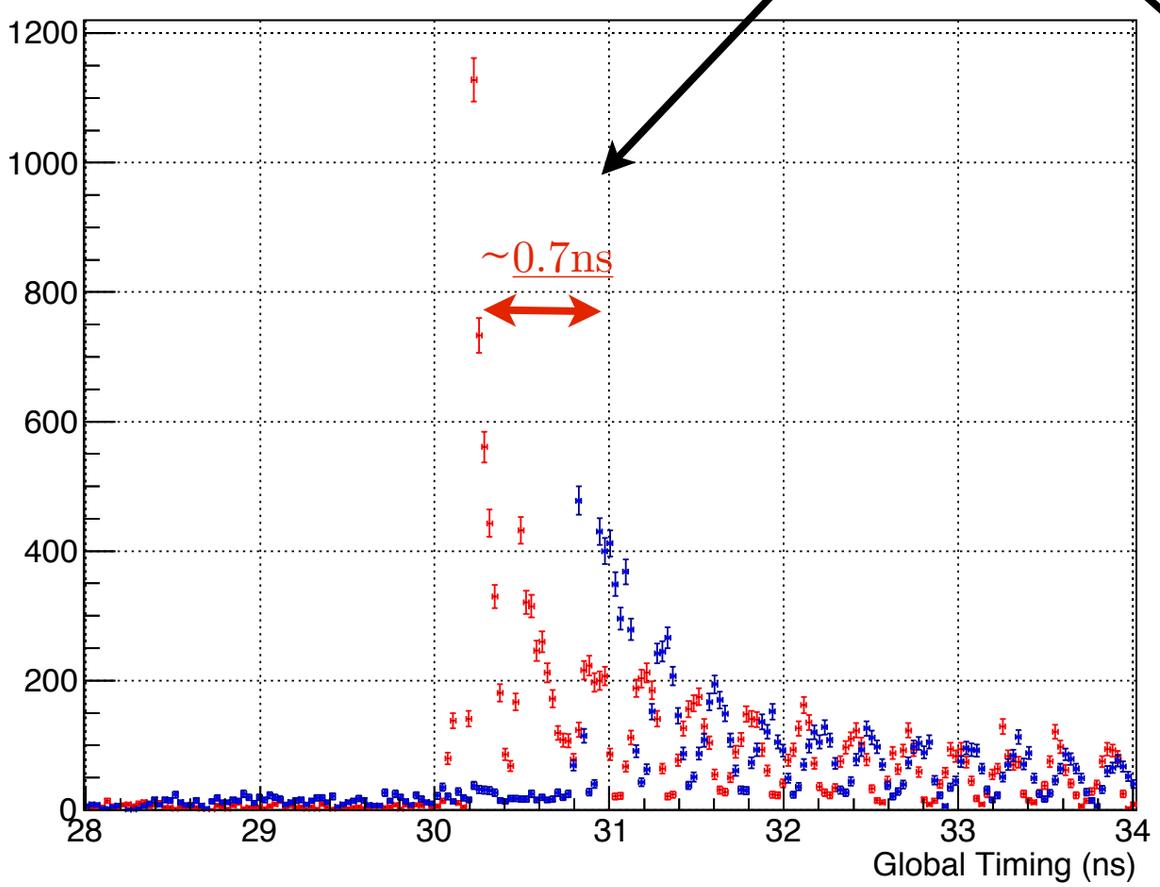


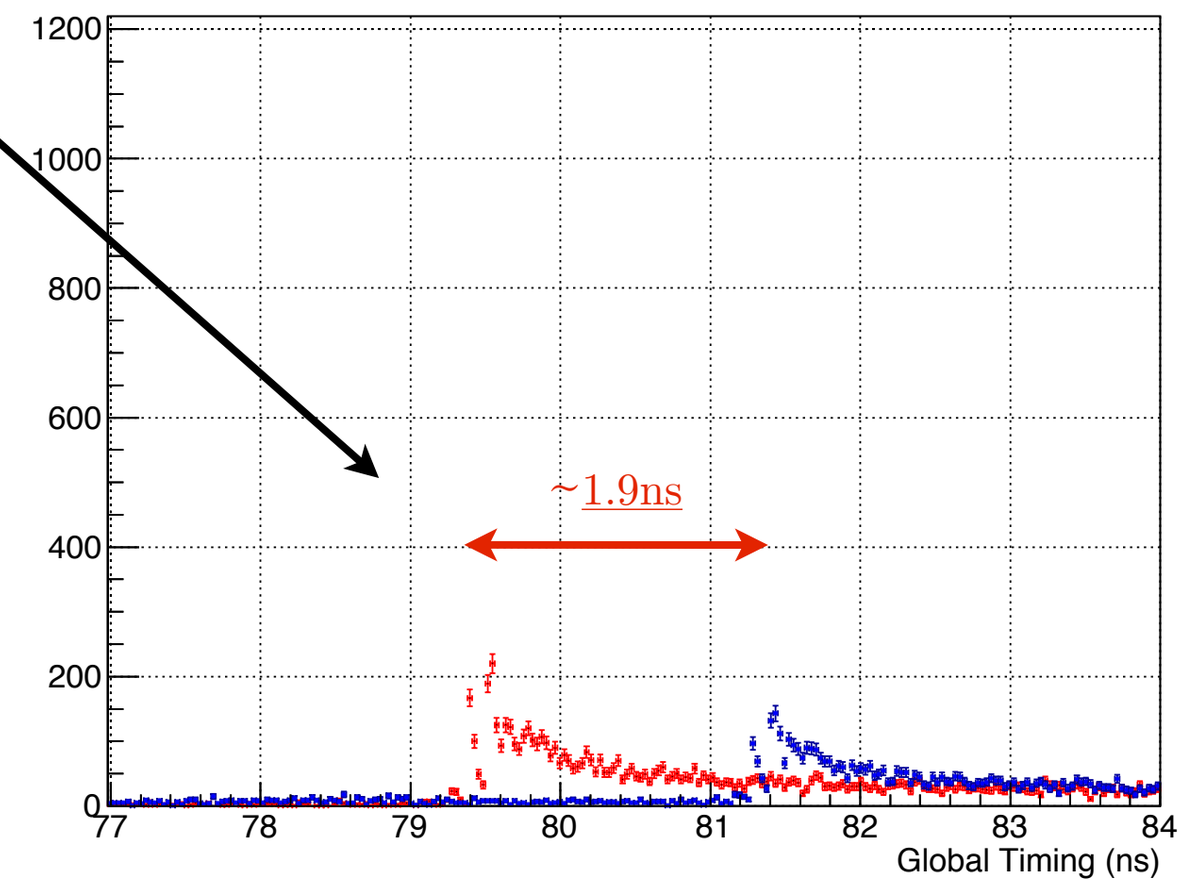


p=2 GeV

Pion Kaon

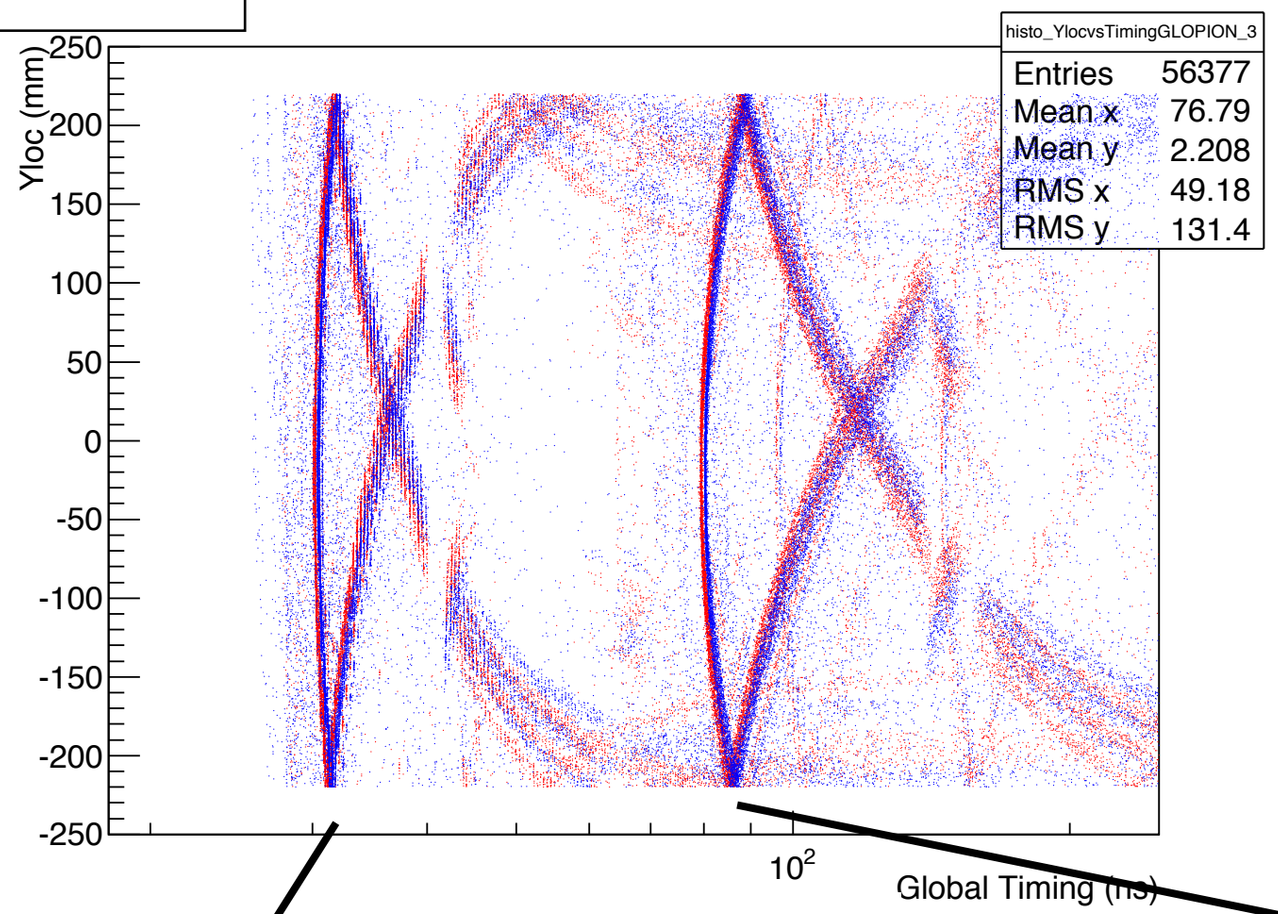


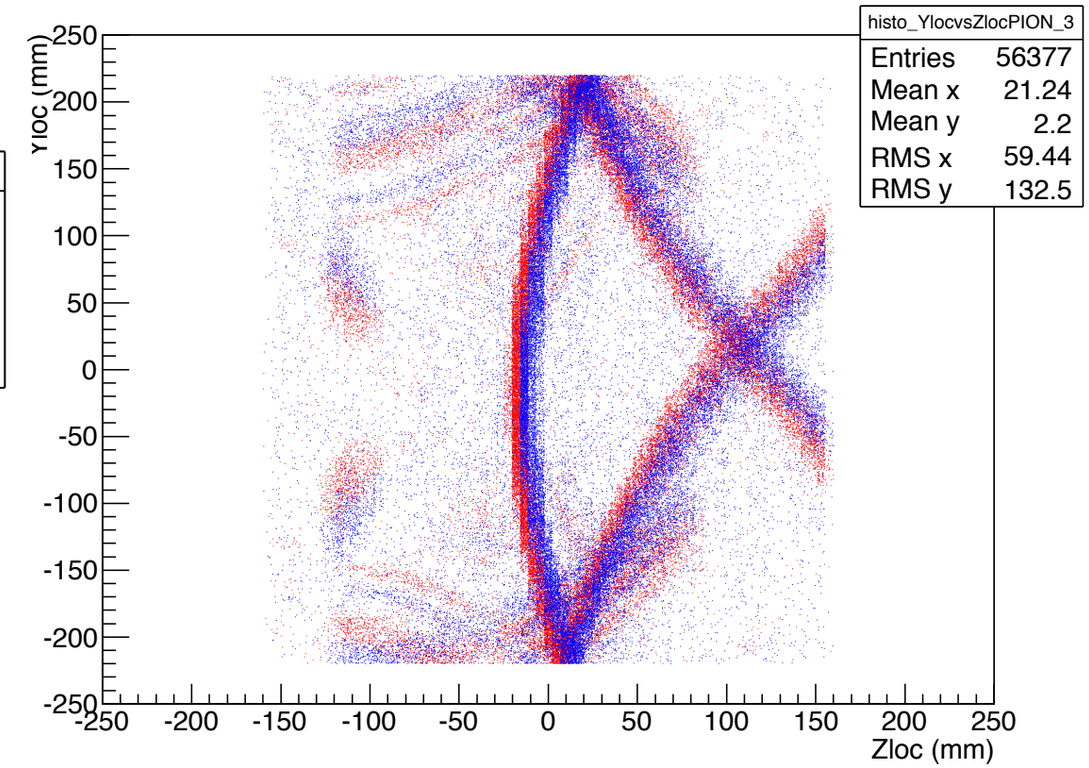


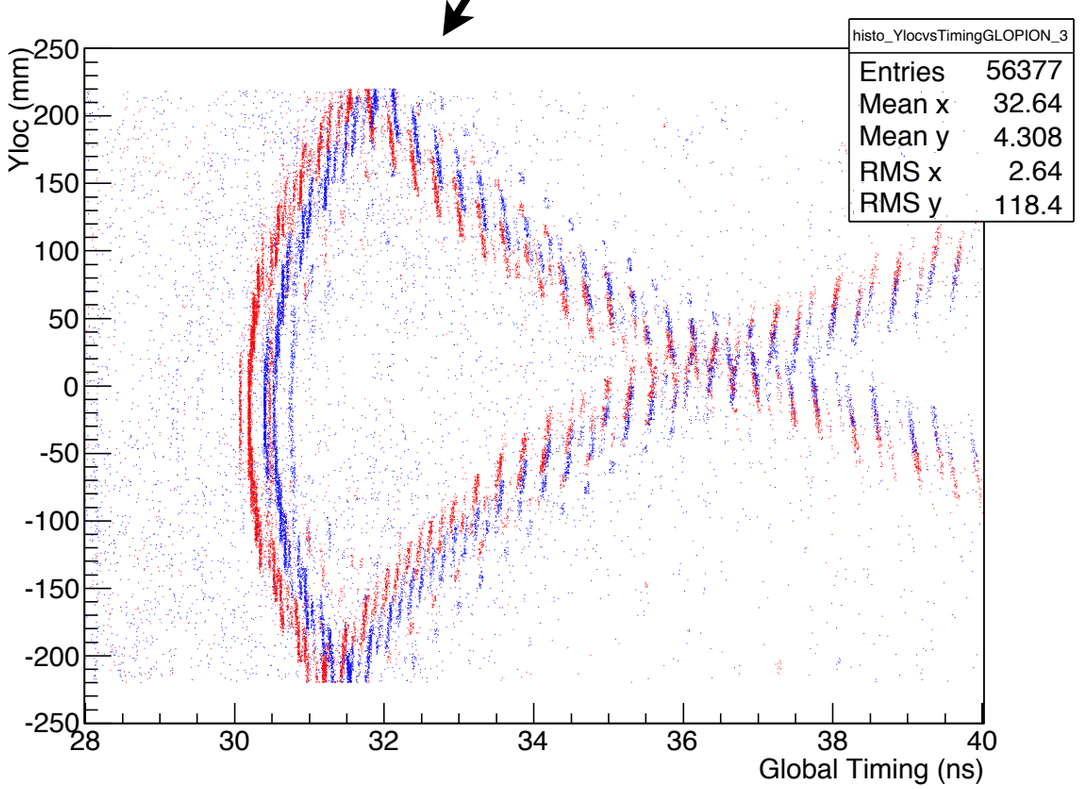


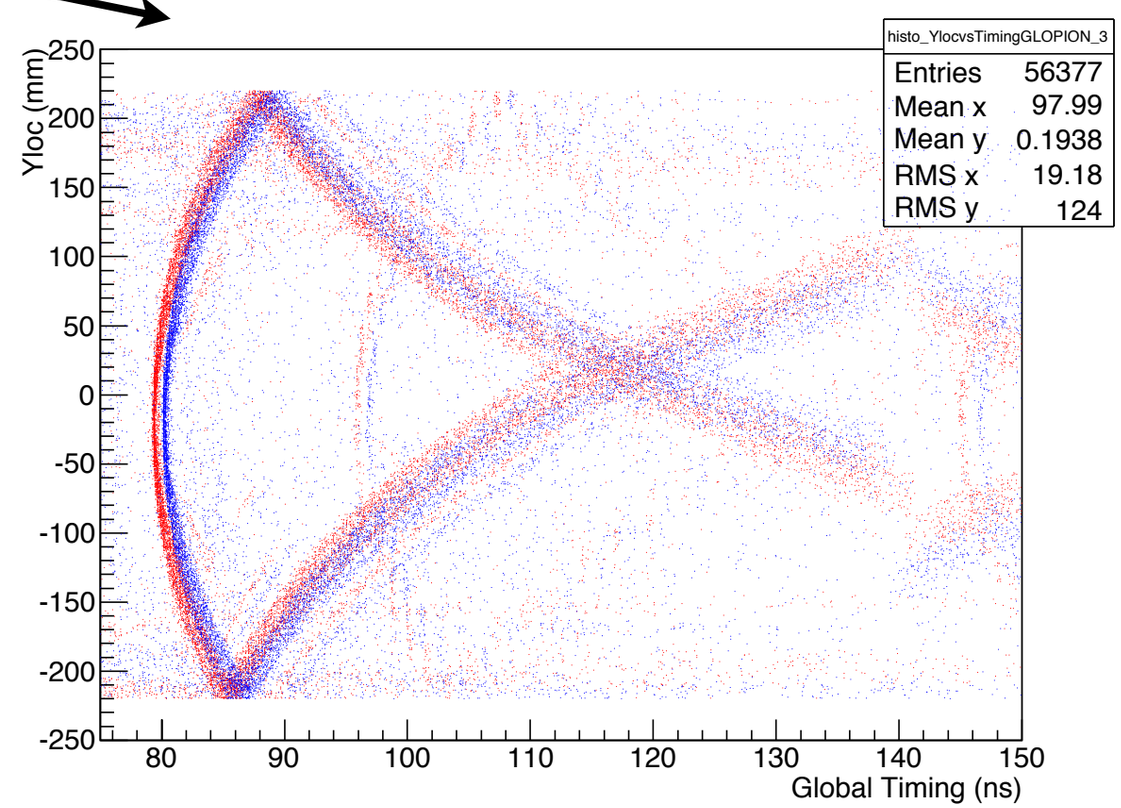
p=3 GeV

Pion Kaon



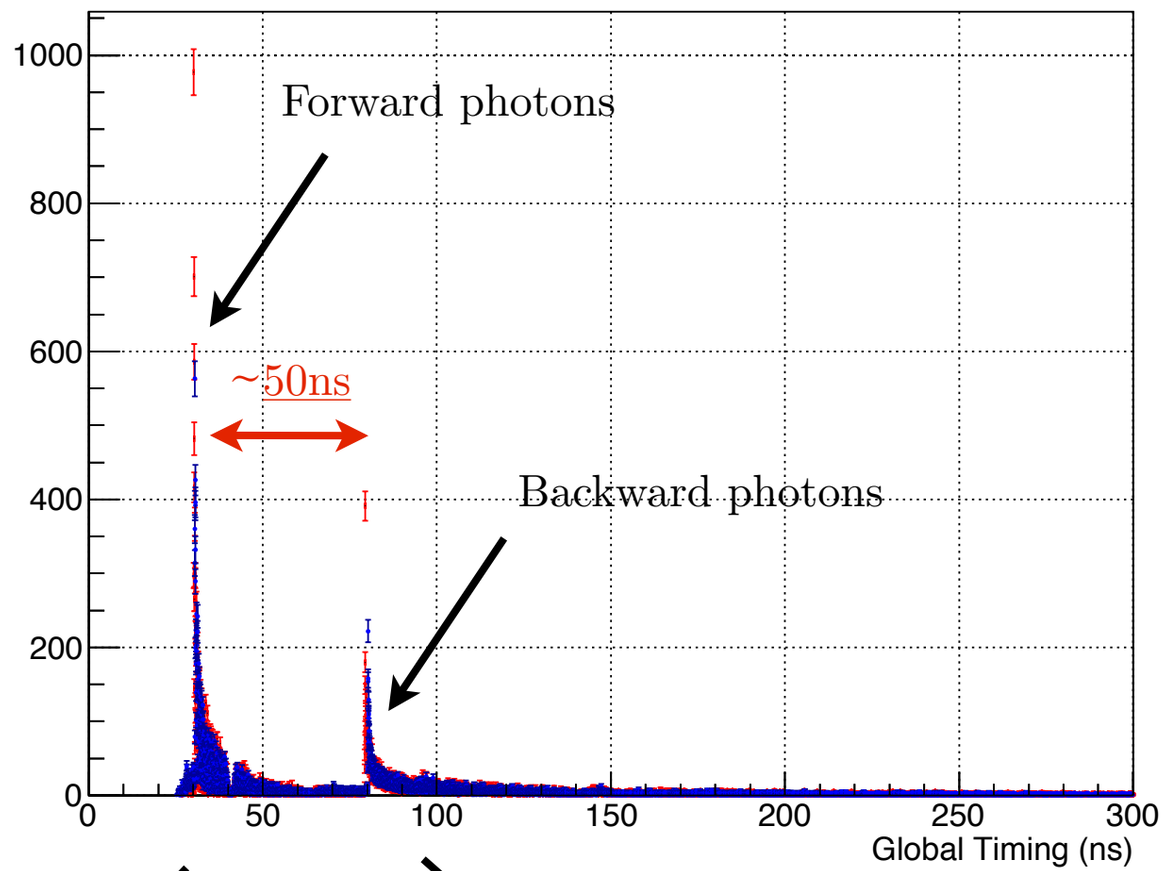


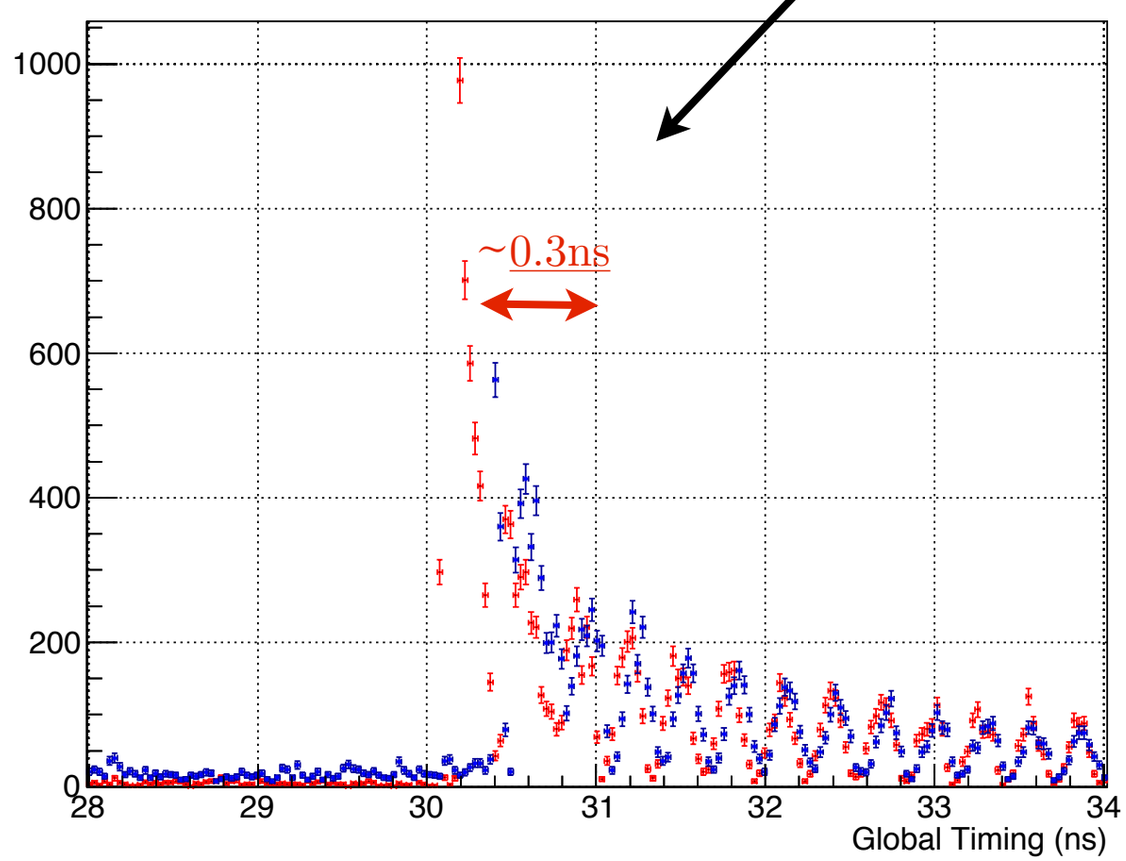


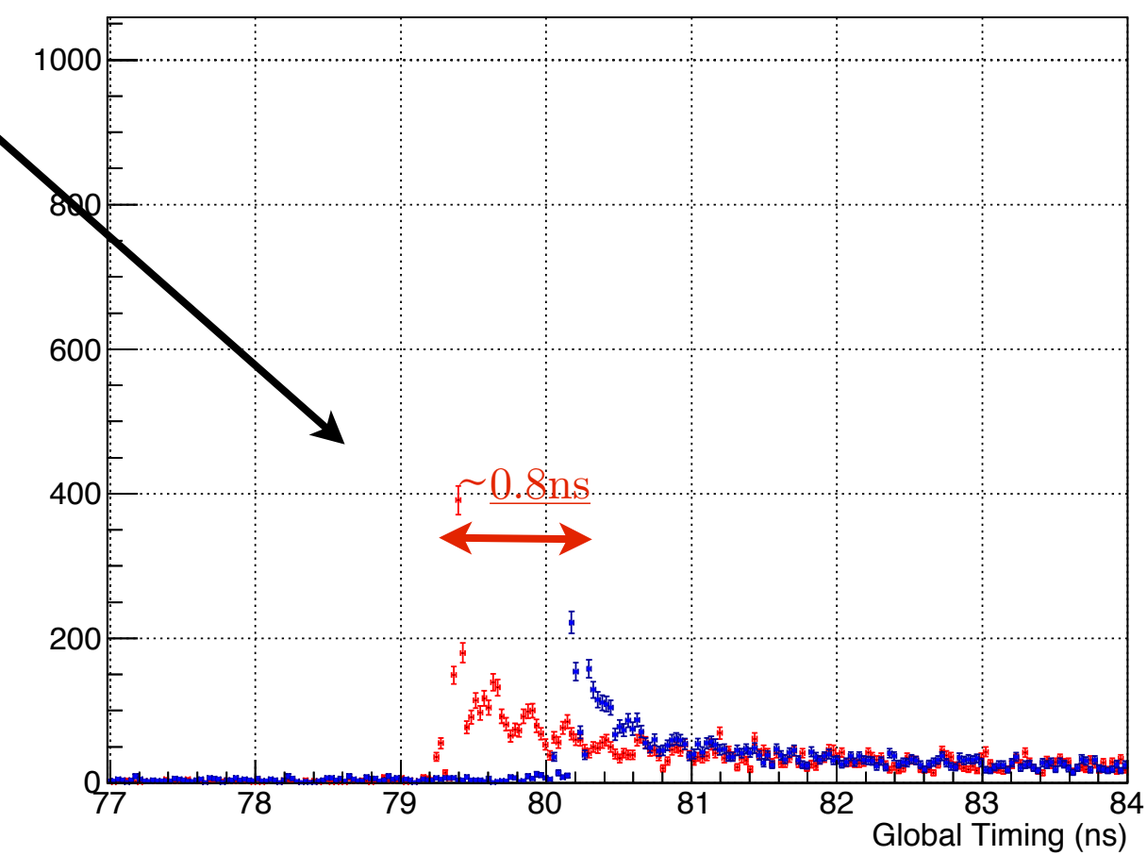


p=3 GeV

Pion Kaon

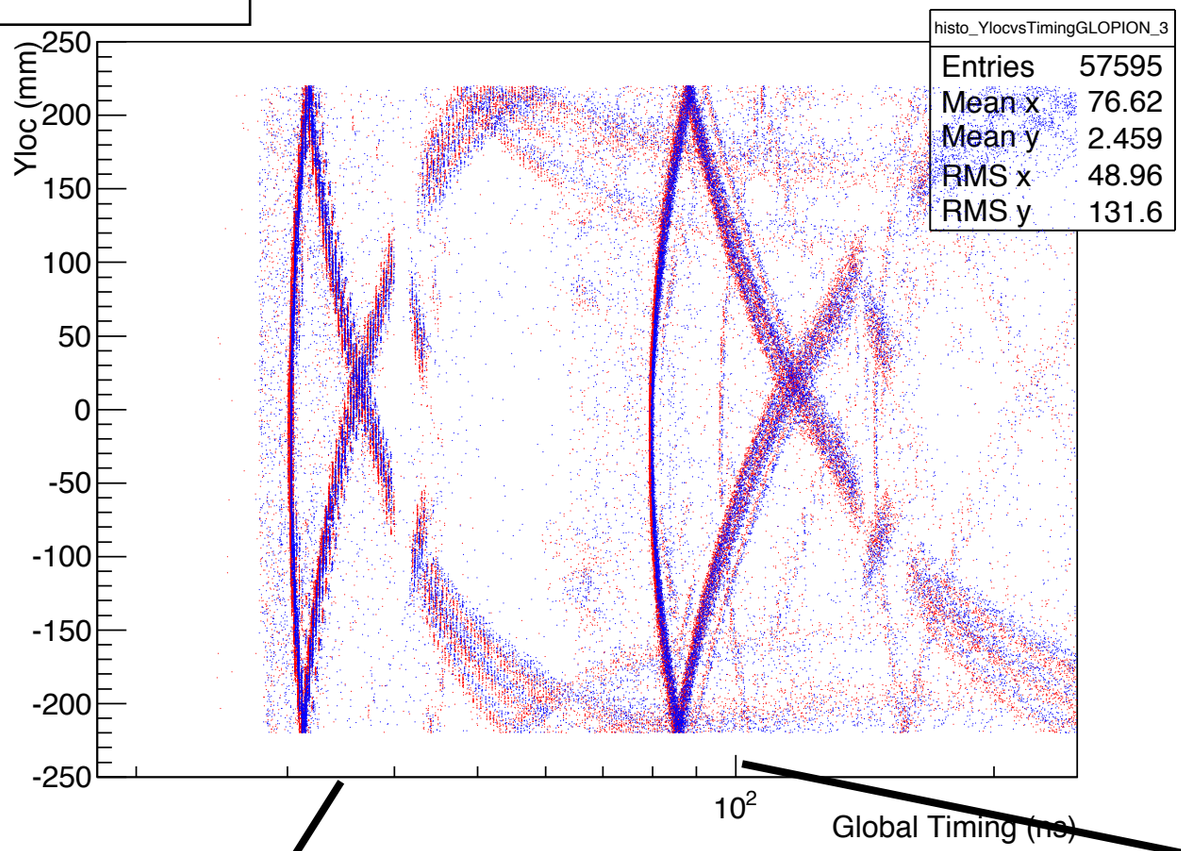


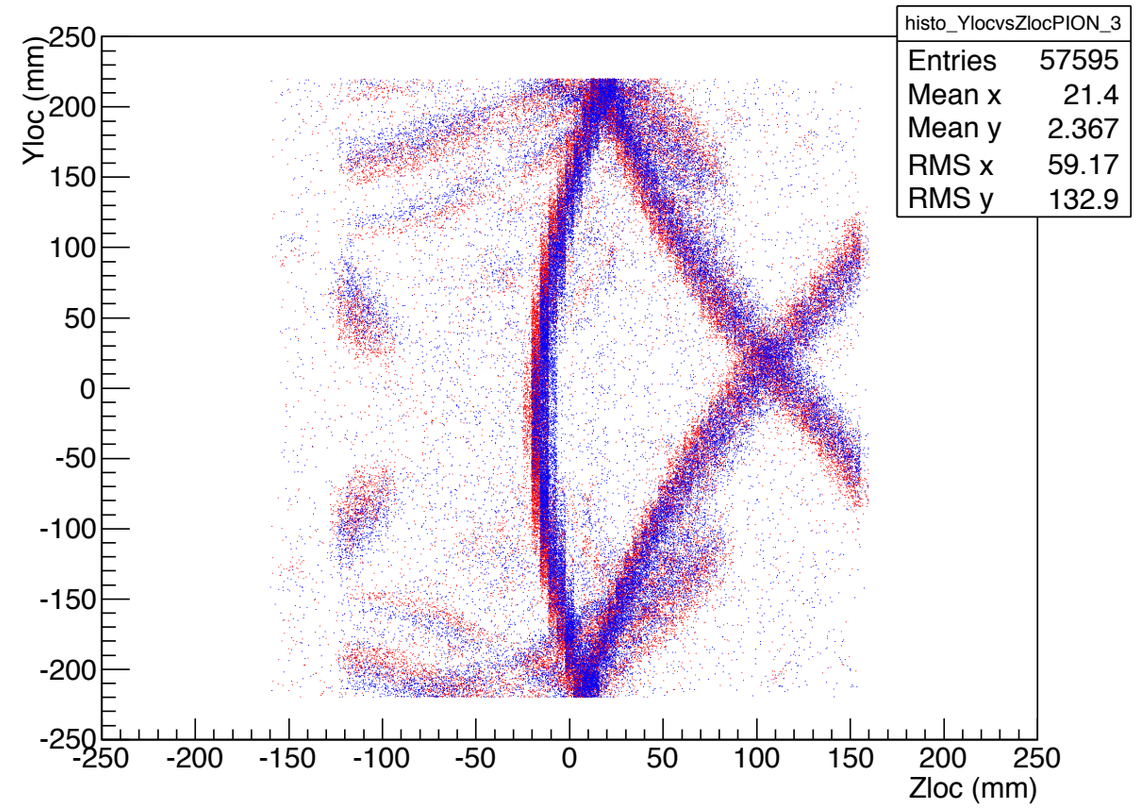


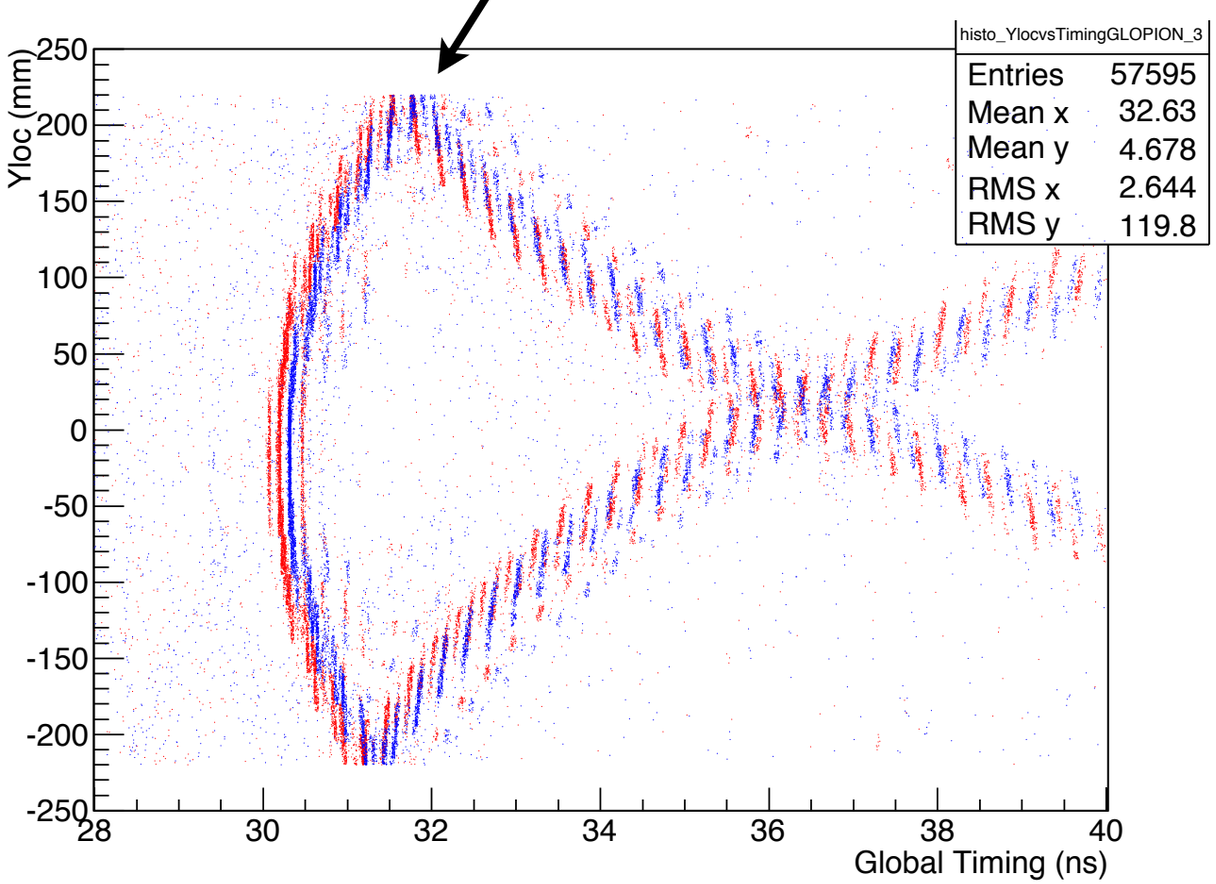


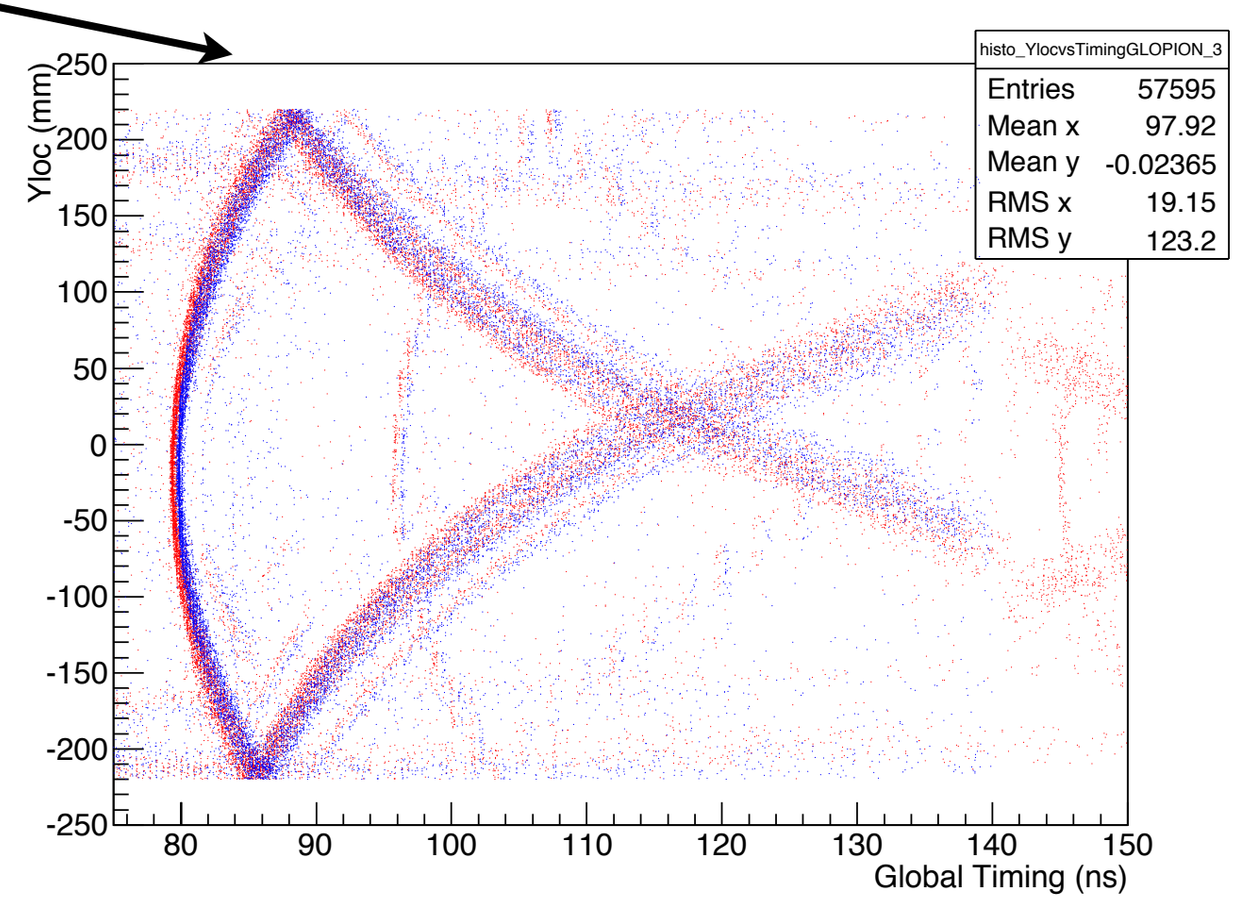
p=4 GeV

Pion Kaon



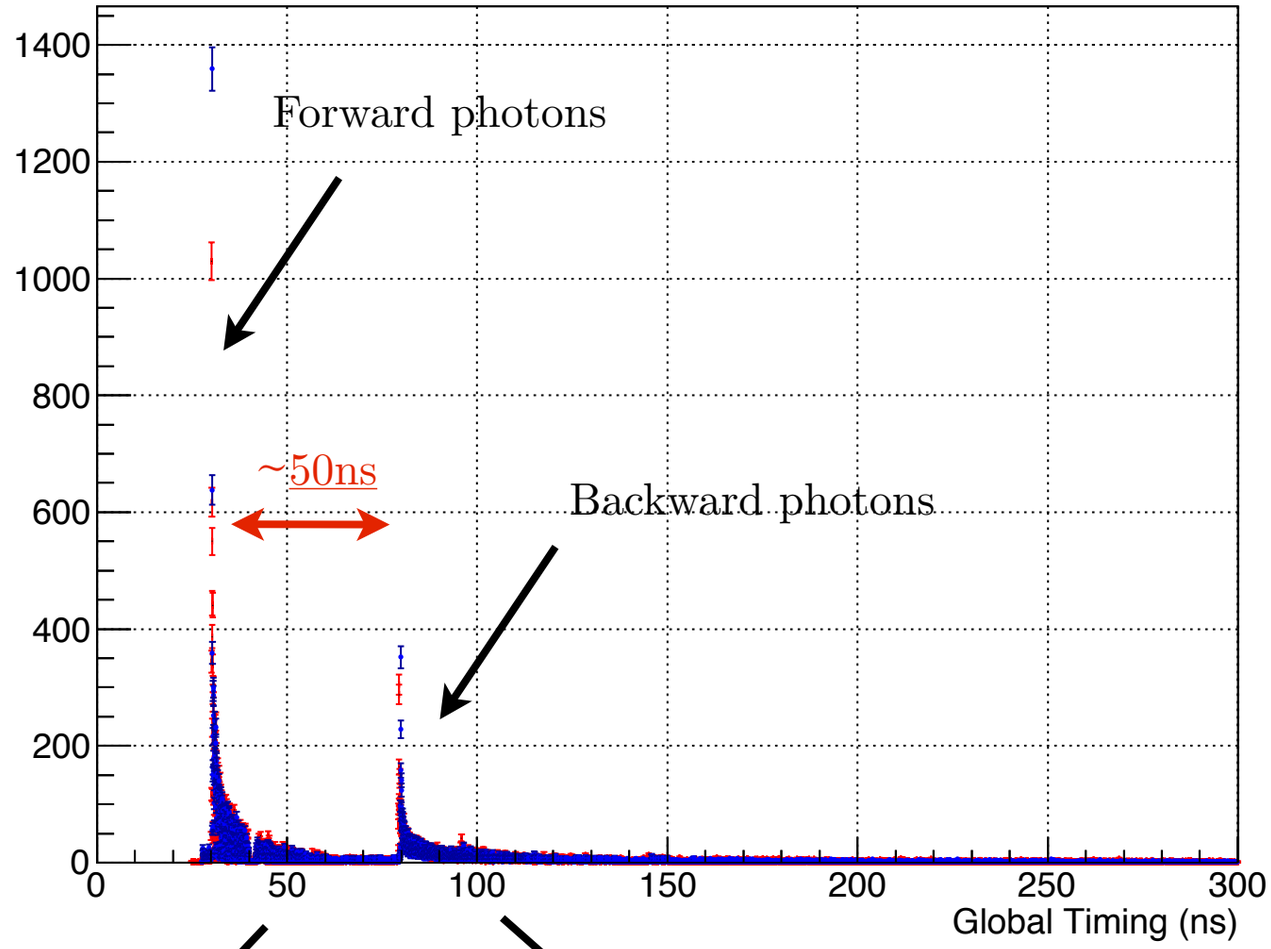


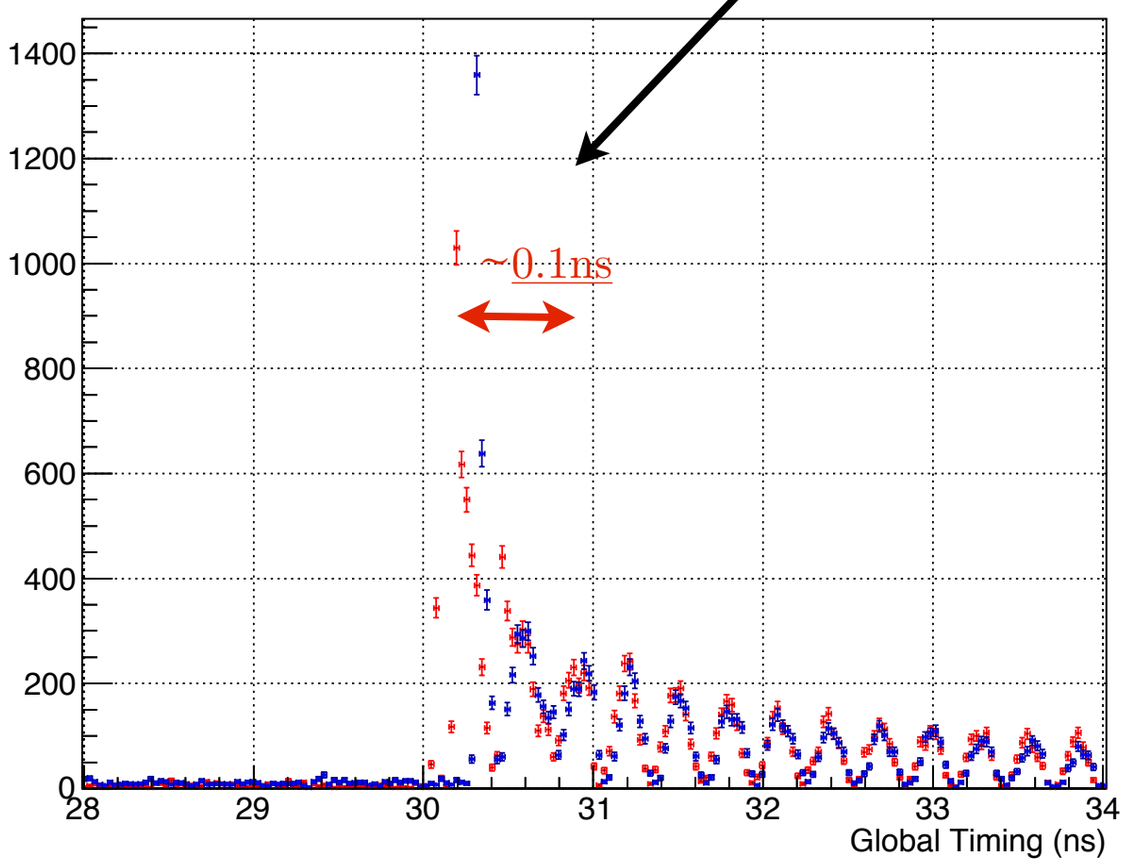


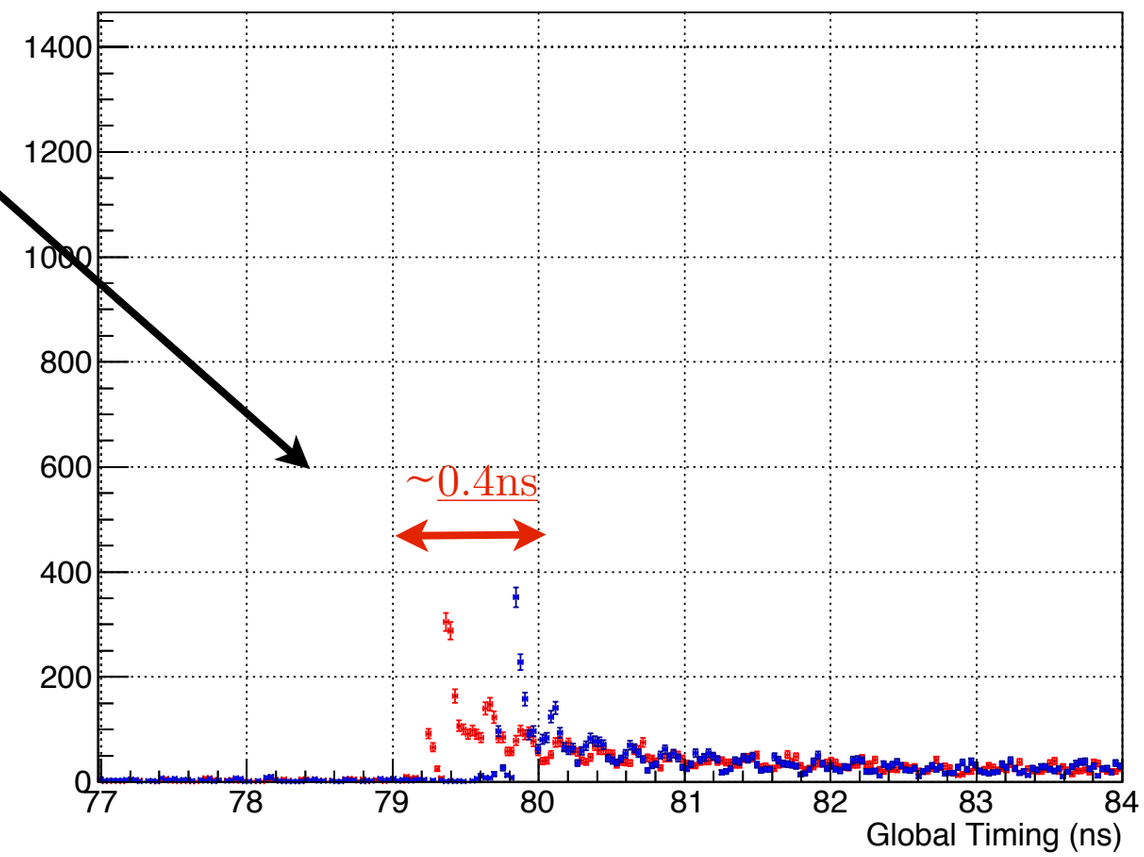


p=4 GeV

Pion Kaon

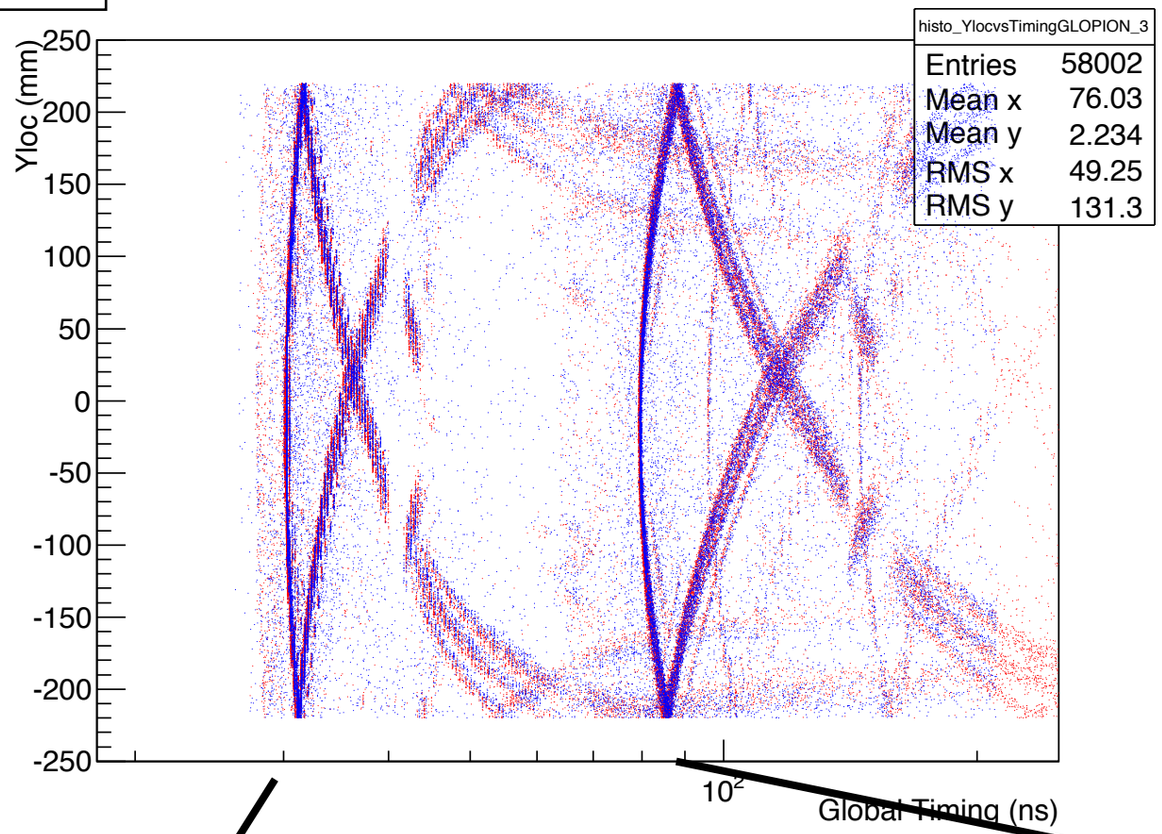


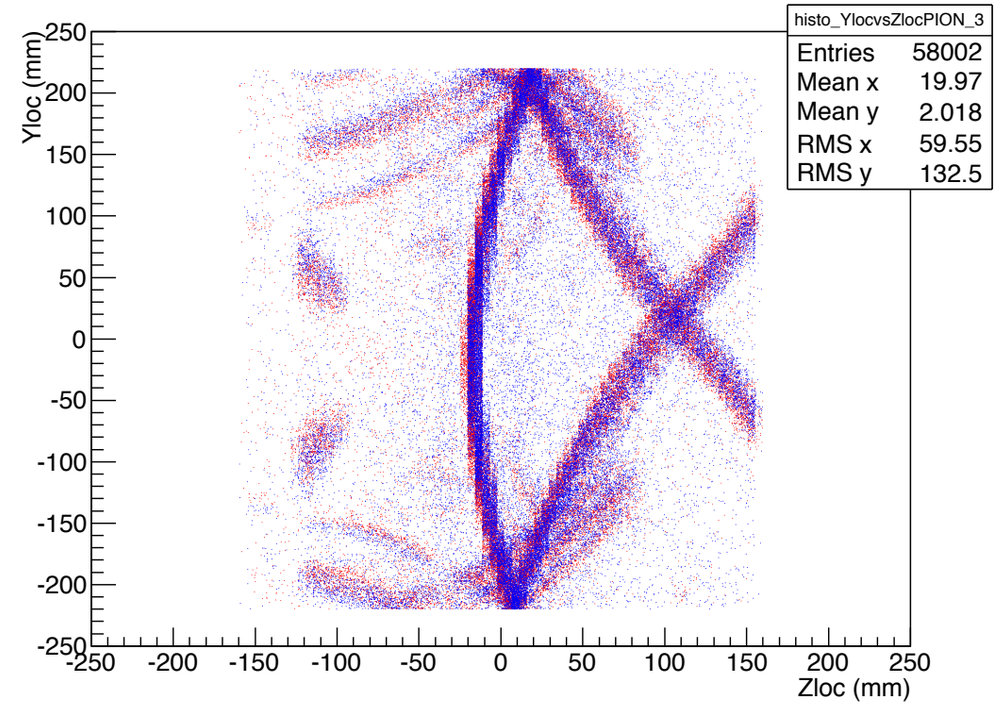


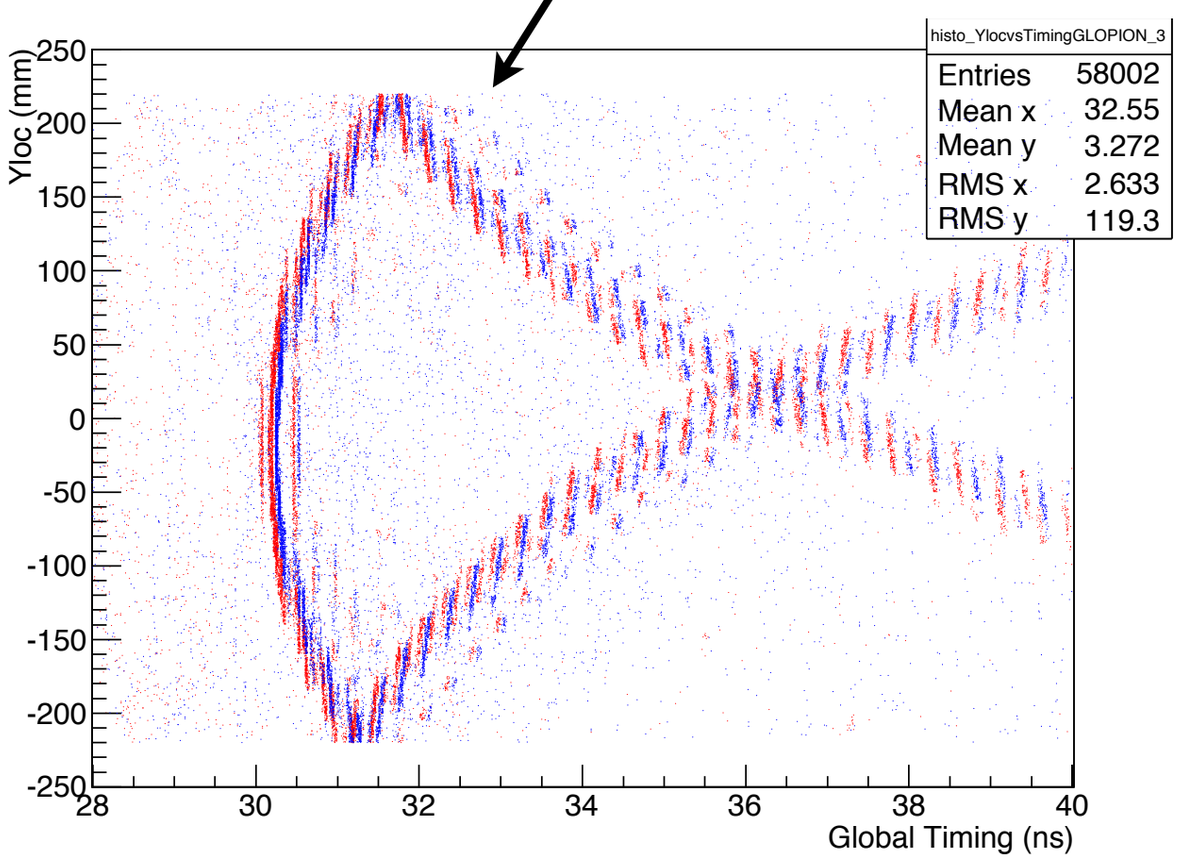


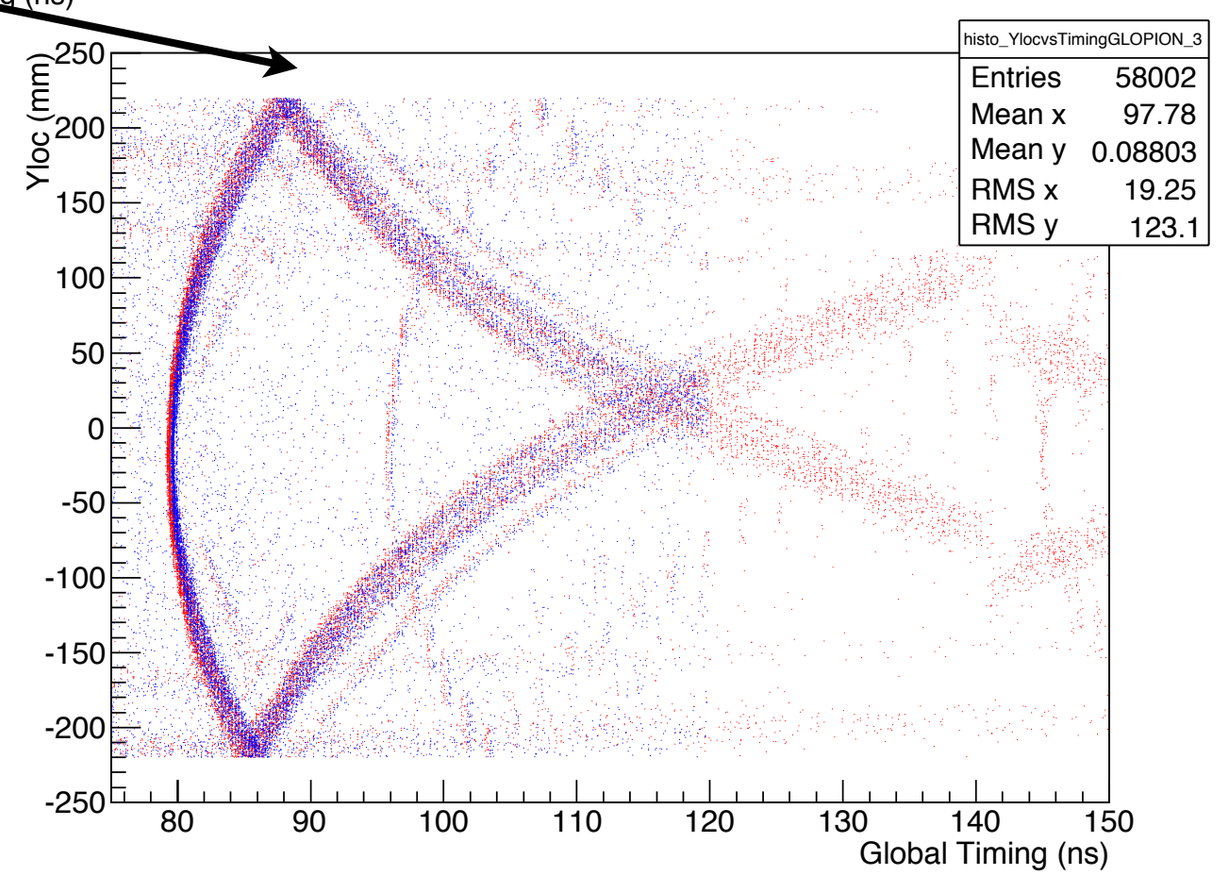
p=5 GeV

Pion Kaon



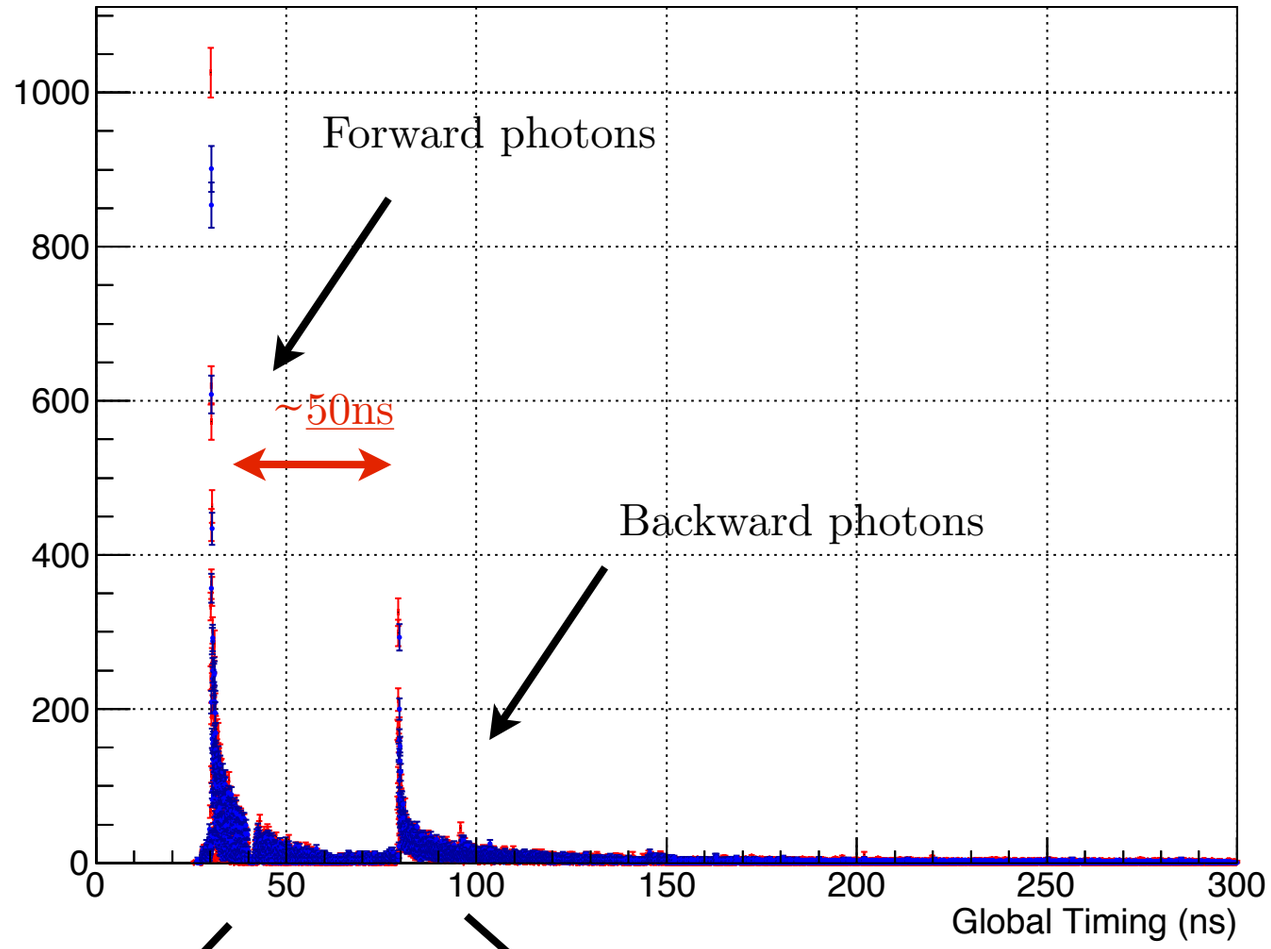


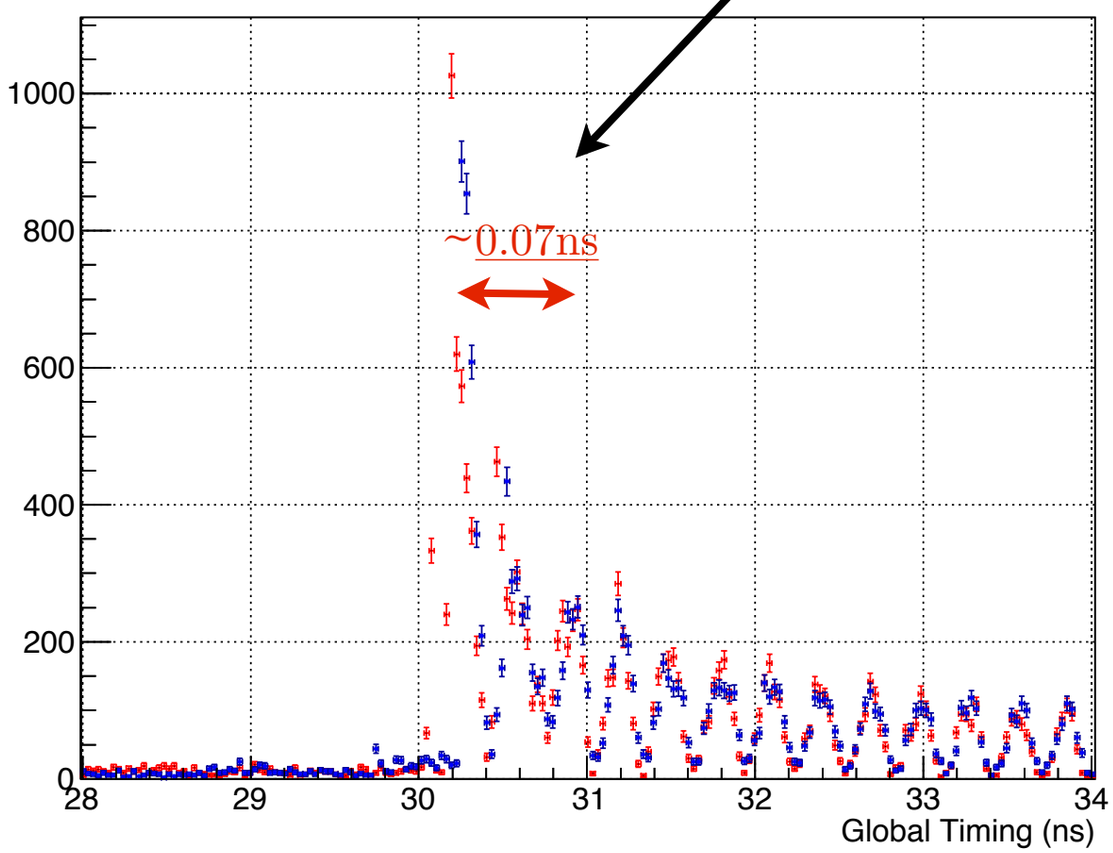


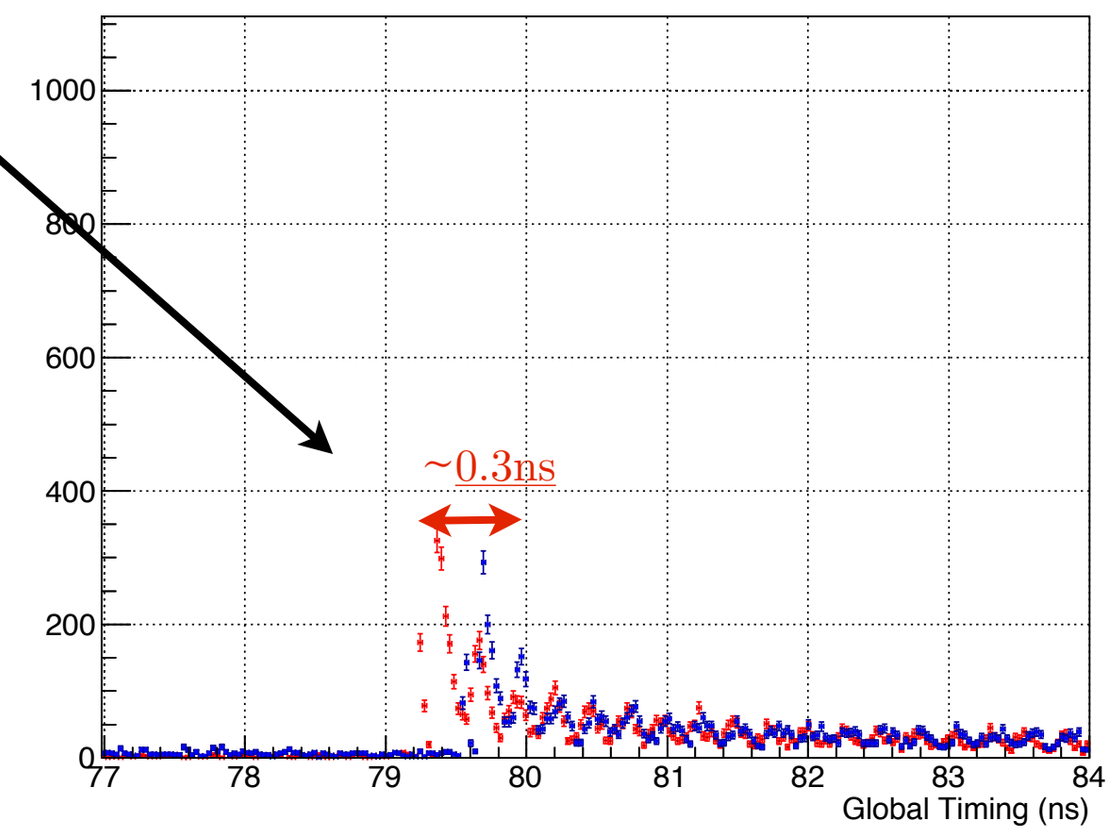


p=5 GeV

Pion Kaon







Next step:

- Smearing the momentum
- Smearing the angle
- Material properties
- PMT testing and geant4 implementation