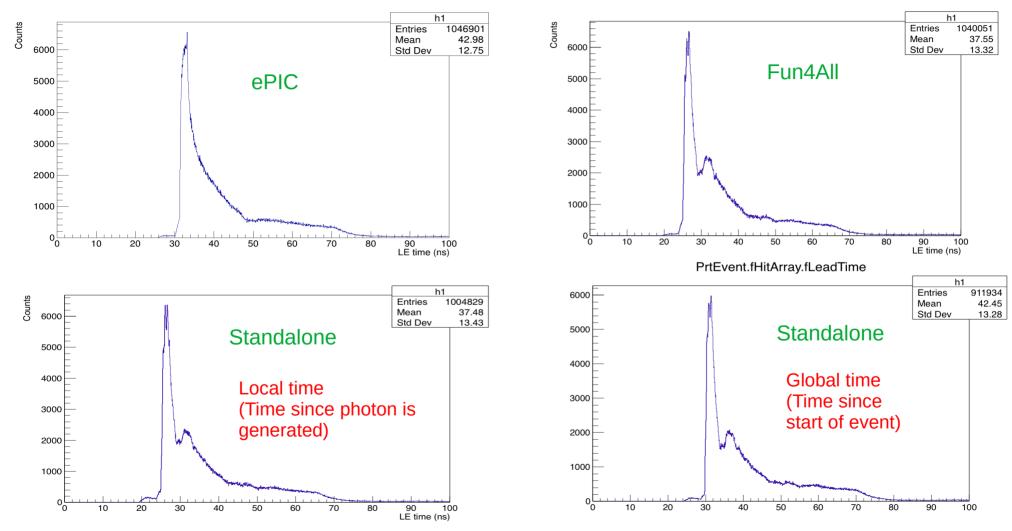
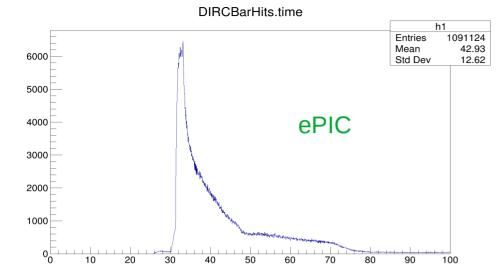
Simulation settings used

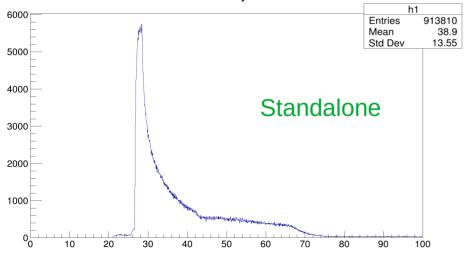
- 1000 pi+ events
- 6 GeV/c momentum
- Theta = 30 deg
- Phi = 0
- Magnetic field off
- No track smearing
- Same geometry for hpDIRC
 - Only 1 MCP and 1 pixel for Standalone and Fun4All
- No QE for sensors
- No photon transport efficiency

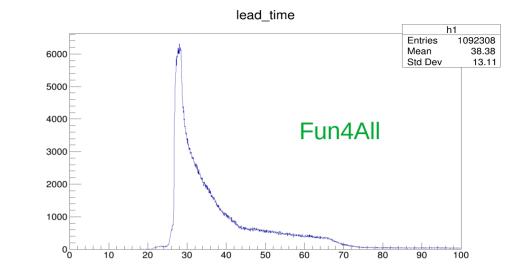
Discrepancy in photon arrival time





PrtEvent.fHitArray.fLeadTime

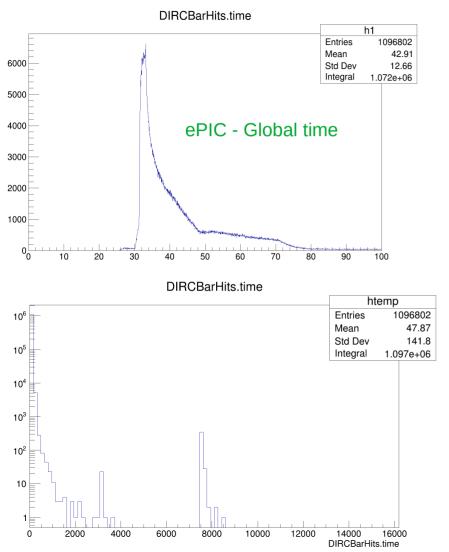


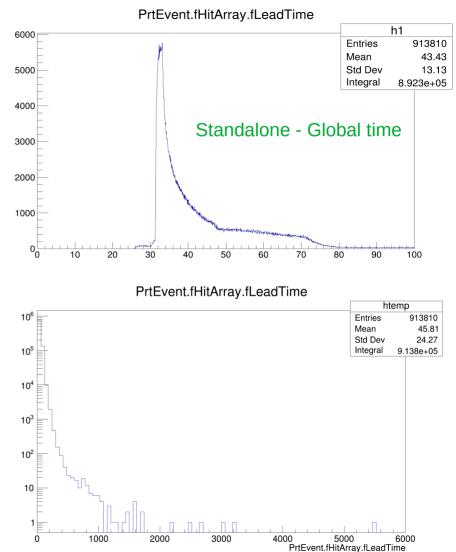


- Found a geometry overlap in versions of Standalone / Fun4All simulations for 1 MCP, 1 pixel configuration
- After fixing, the shapes of timing distributions agree better!

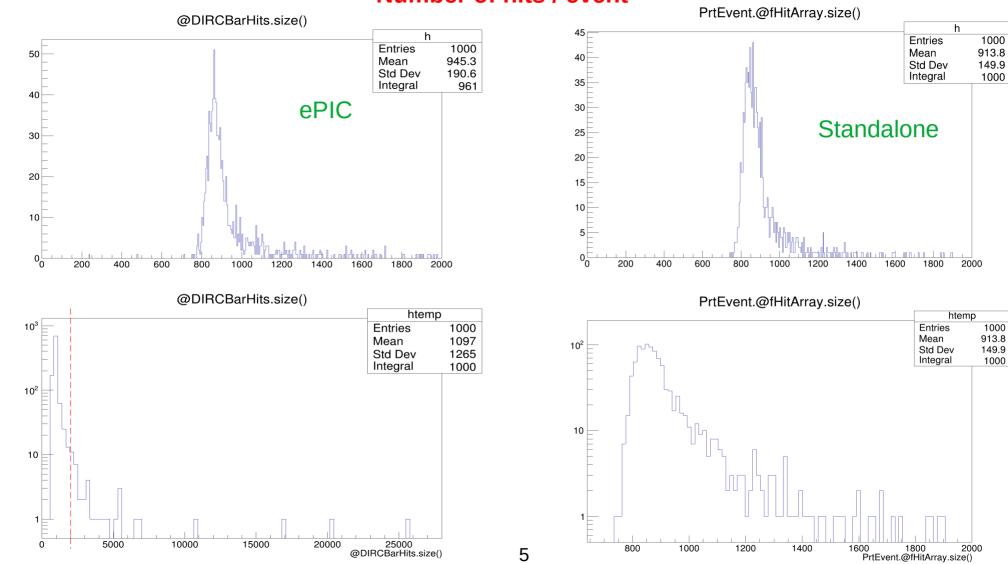
ePIC / Standalone comparison – photon time

4





Number of hits / event



Next steps

- Find the source(s) for events producing > 2000 hits in ePIC simulation
 - Check physics list
 - Reproduce in standalone simulation