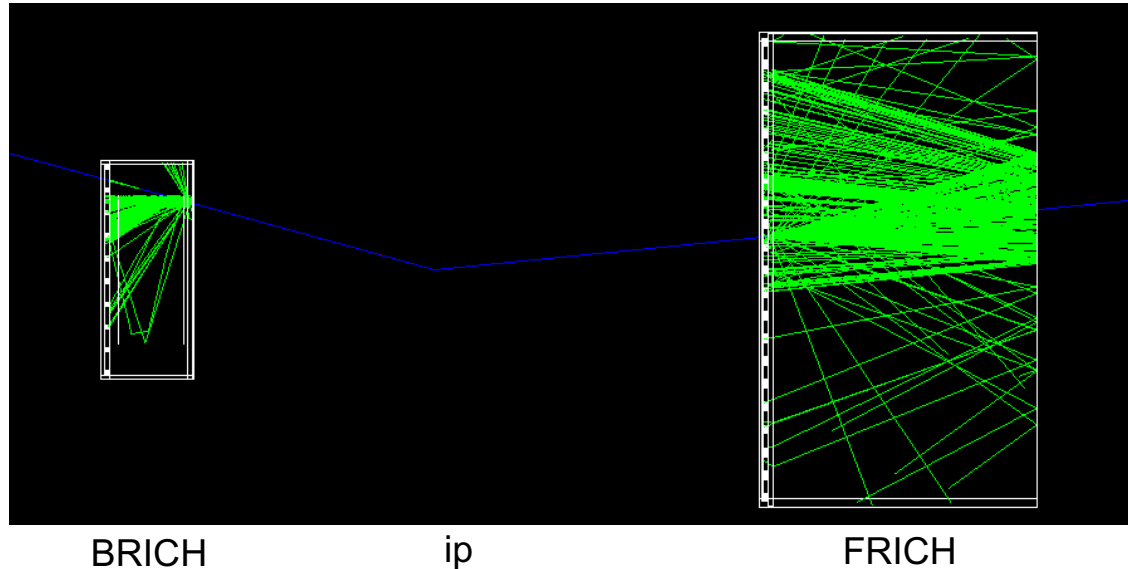


QRICH -> BRICH & FRICH

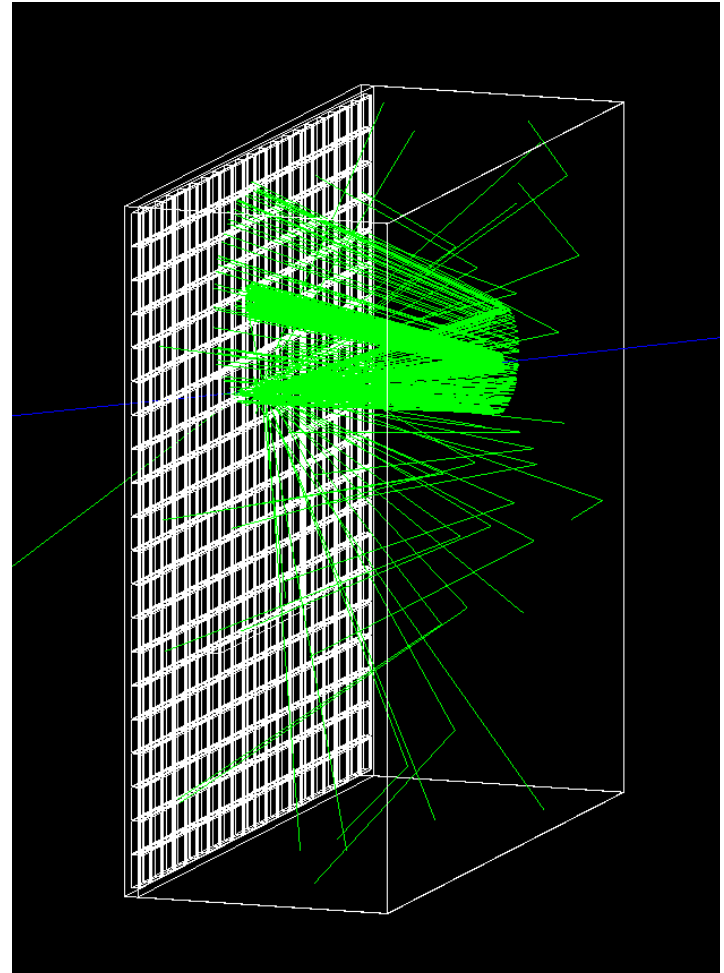
- QRICH sandbox geometry description split into BRICH and FRICH source files
 - Became impractical to keep pfRICH-like and dRICH-like geometry in one code
- Started modifying FRICH geometry to a dRICH-like one (added a reflection)
- Made sure BRICH & FRICH can be served by a unified RICH-IRT plugin at once
 - Appeared to be a bit trickier than expected, but eventually works fine



FRICH sandbox status

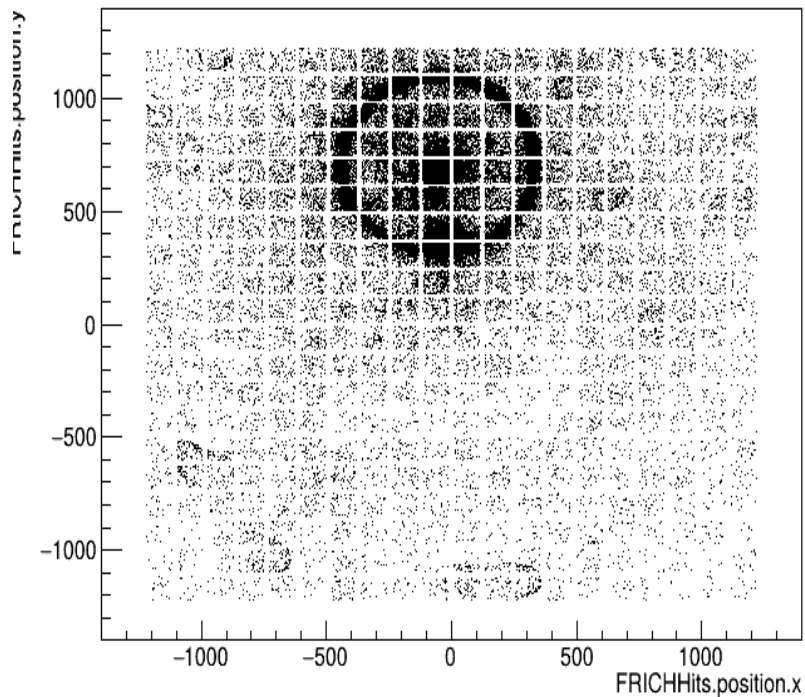
- Started adjusting FRICH geometry to a dRICH-like one
 - Added a reflection (flat mirror)
 - SiPM QE (yet HRPPD geometry)
 - Aerogel with $\langle n \rangle \sim 1.019$
 - C_2F_6 , dRICH acrylic
- Optics description is functional
- Have ElCrecon hit maps and standalone IRT 2.0 script working *for aerogel radiator*

Exchanging flat mirror for a spherical one should be straightforward (for aerogel)

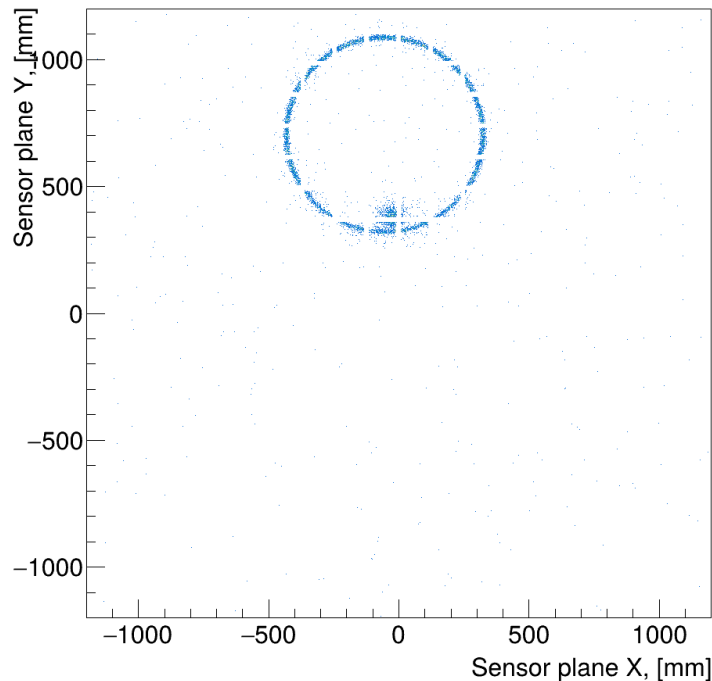


FRICH sandbox status

FRICHHits.position.y:FRICHHits.position.x

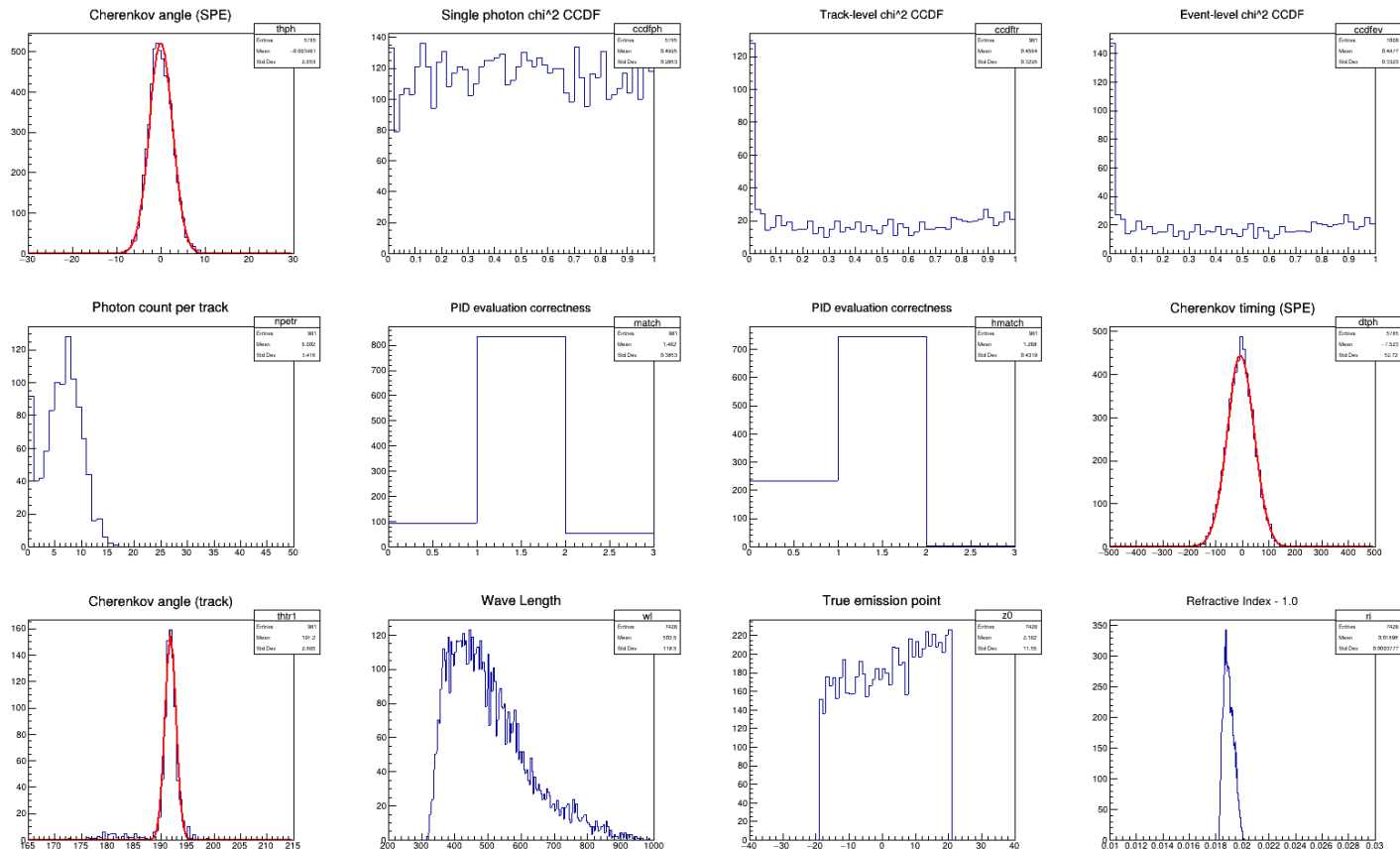


Hits after npsim pass
(no QE cut; gas hits present)



Hits after EICrecon pass
(QE accounted; no gas hits yet)

FRICH IRT 2.0 standalone script QA panel



$\langle N_e \rangle$ is perhaps too low, and several tracks with 0 hits

SiPM QE effect

$\langle n \rangle \sim 1.019$