Shielding studies

Borysova Maryna (KINR) 9/06/21 LUXE weekly technical meeting

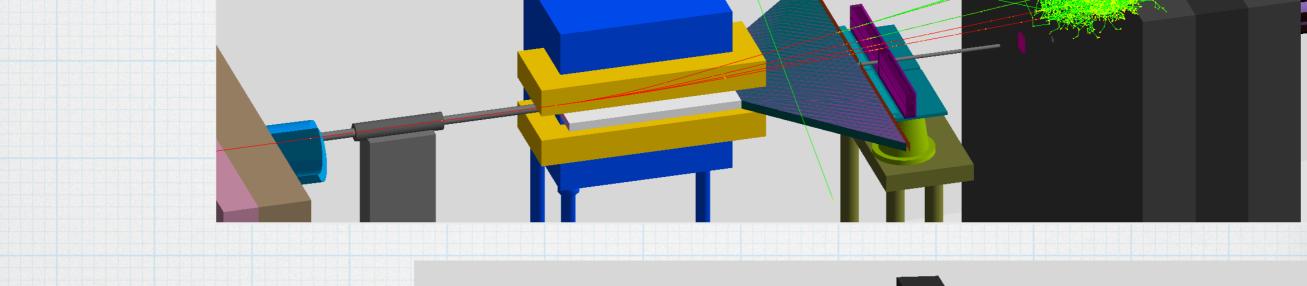
LUXE

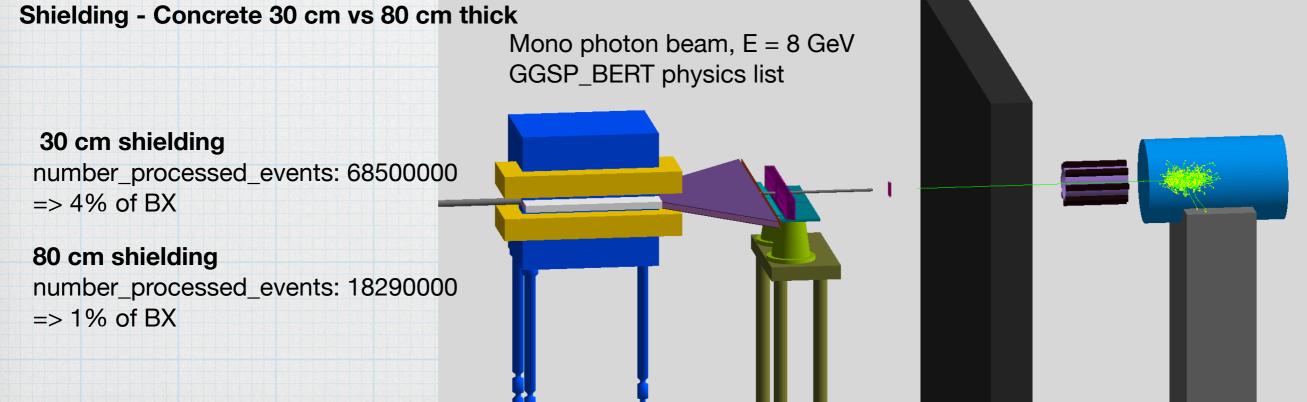
Forward detector system with triangular chamber

Beam Pipe 4.2 cm +
Triang chamber
Al window 0.5 mm

MC HICS photon beam,
E e= 16.5 GeV
number_processed_bx: 4722

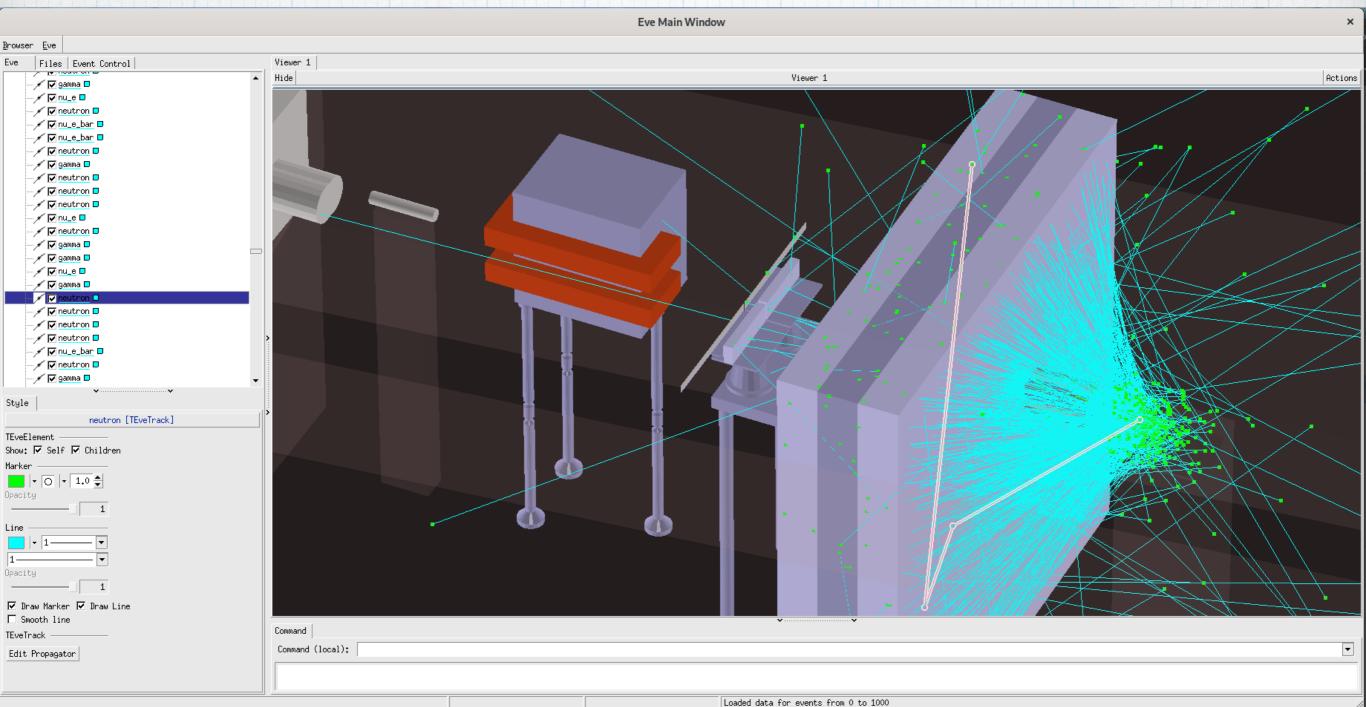
Shielding - 3-layer Fe-Al-Fe 90 cm thick



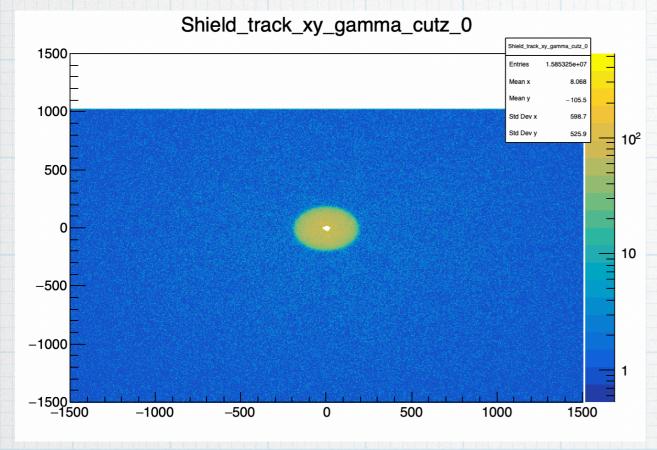


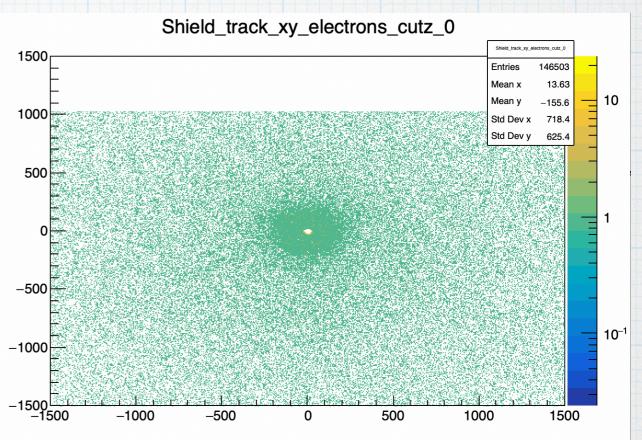
Event display

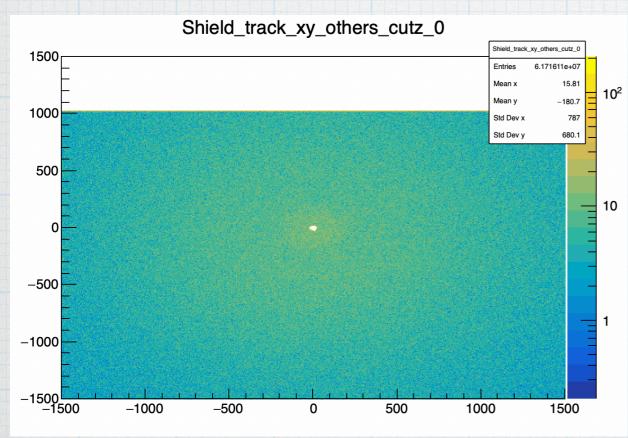
1000 photons of 8 GeV energy

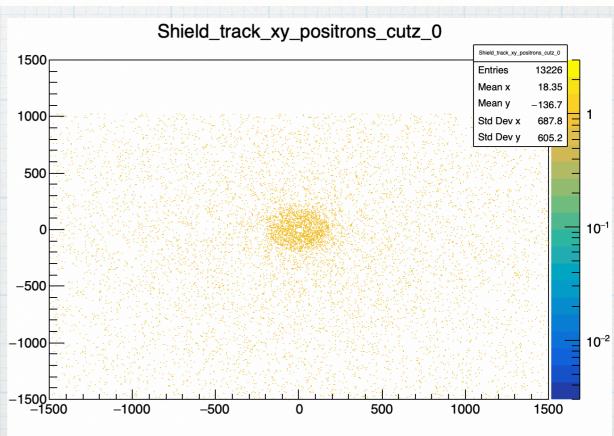


Tracks xy, rear surface

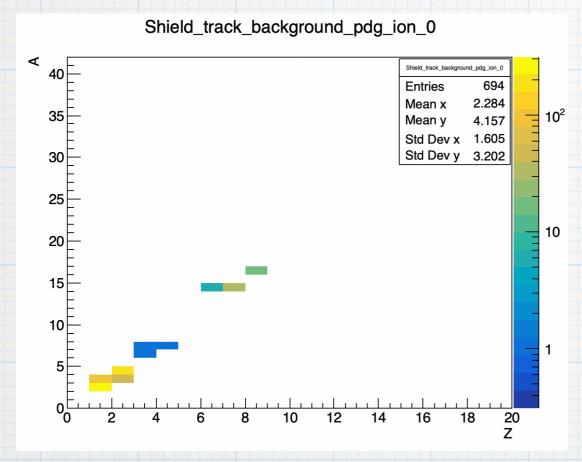


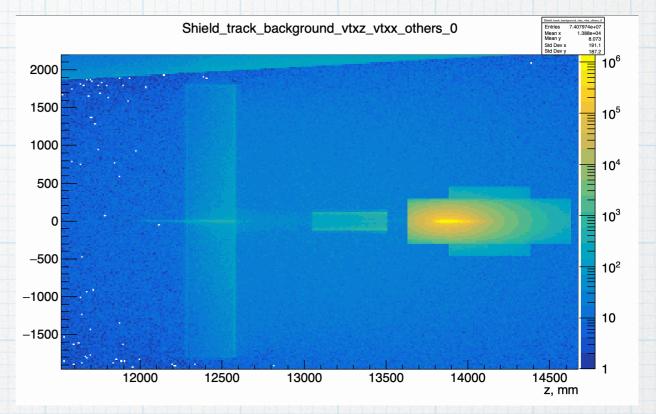




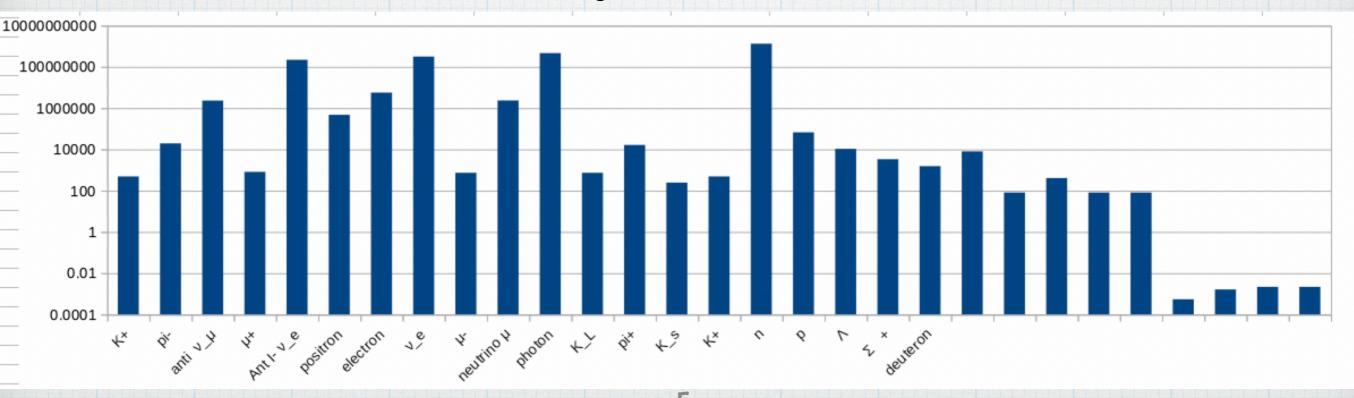


lons & other particles in Shielding

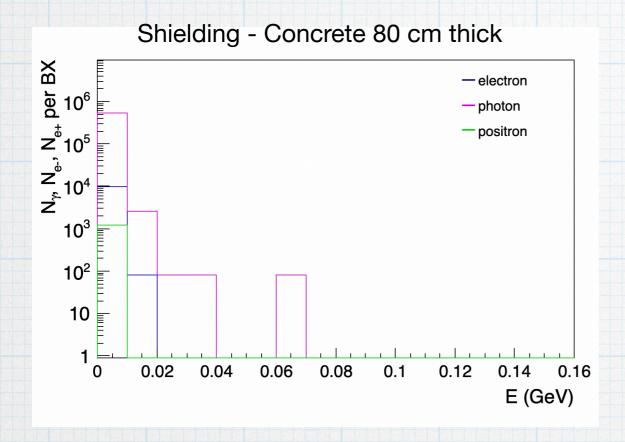


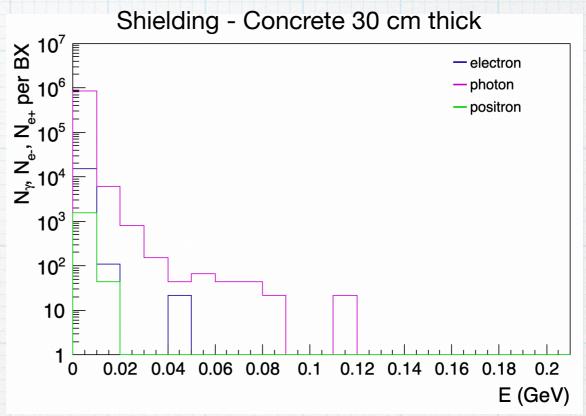


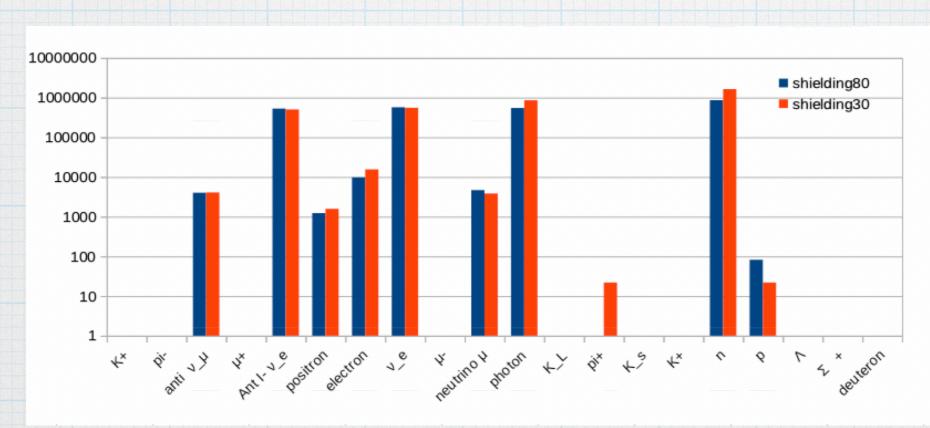
Shielding - Concrete 30 cm thick



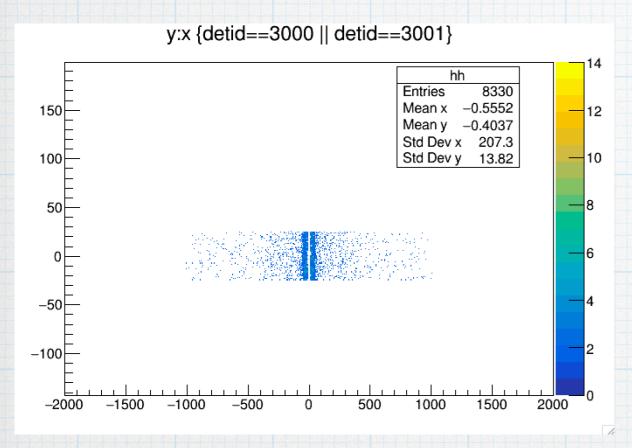
Dump induced background in photon spectrometer

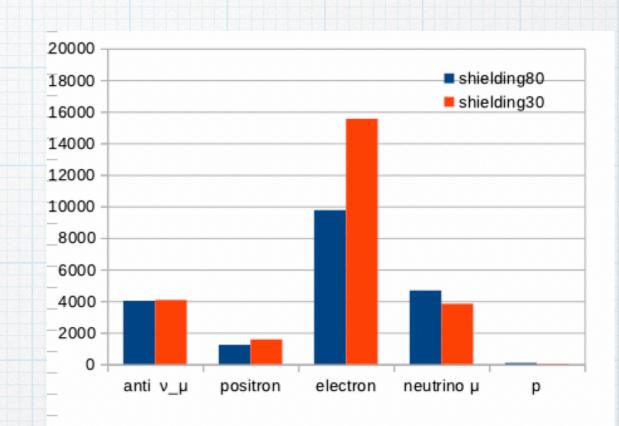


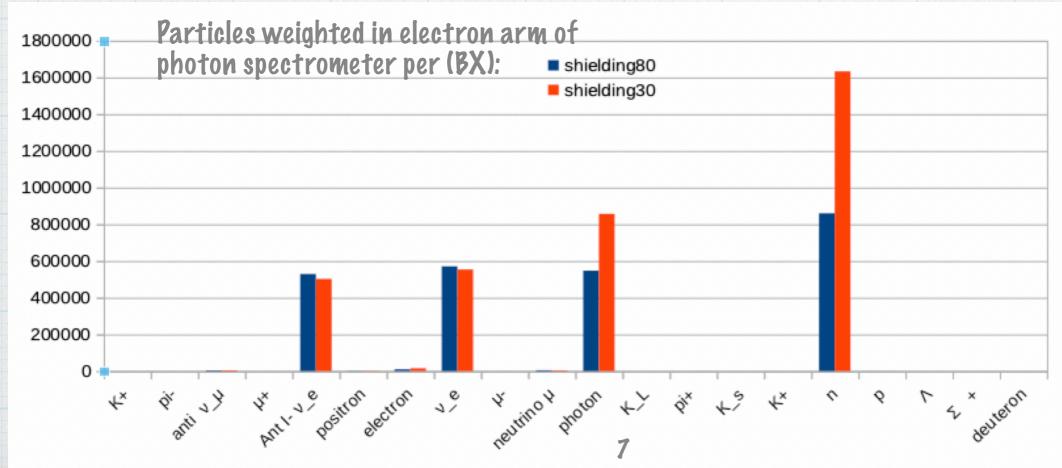




Dump induced background in photon spectrometer

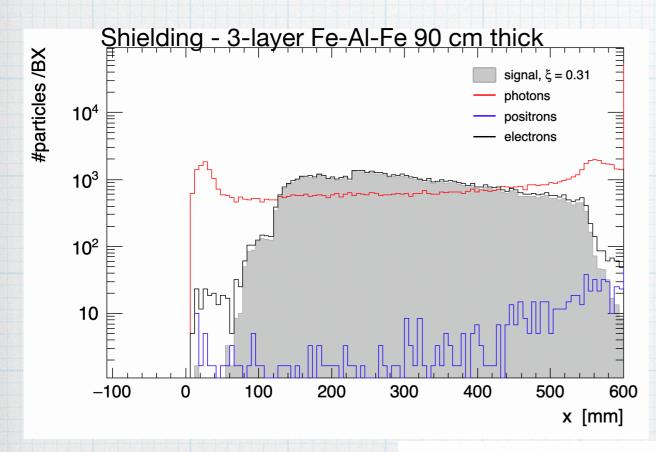


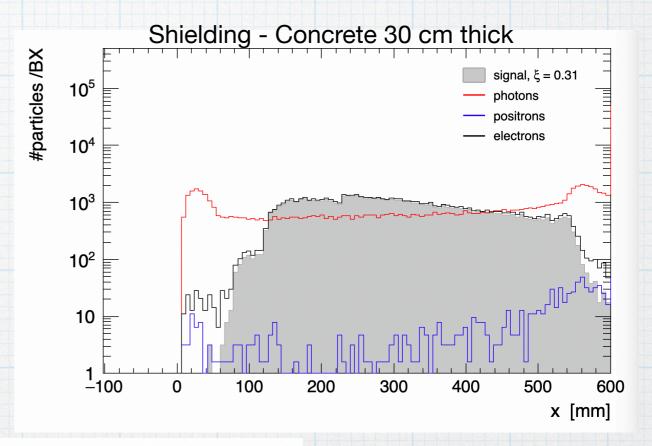


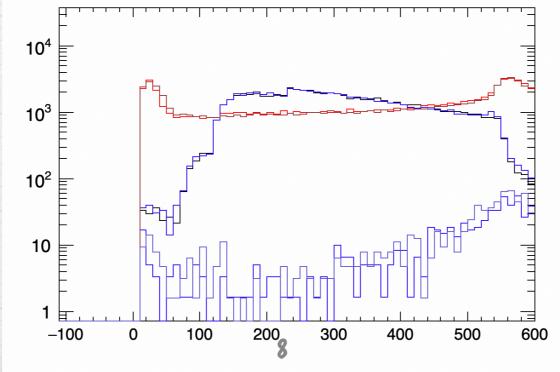


Comparing signal in lanex

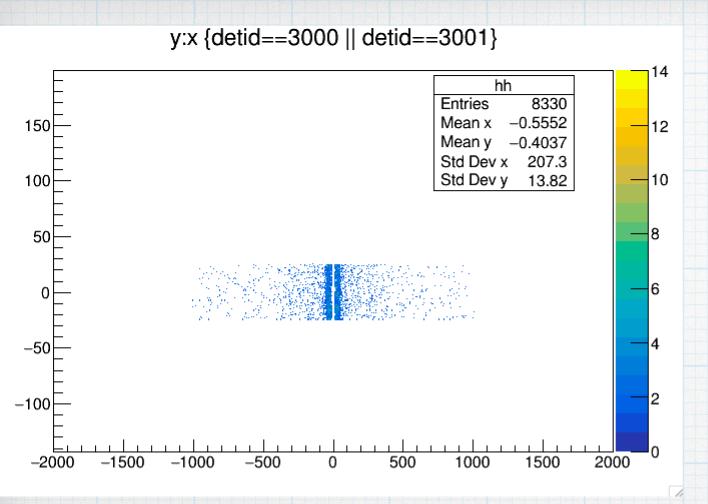
MC HICS photon beam, E e= 16.5 GeV number_processed_bx: 4722



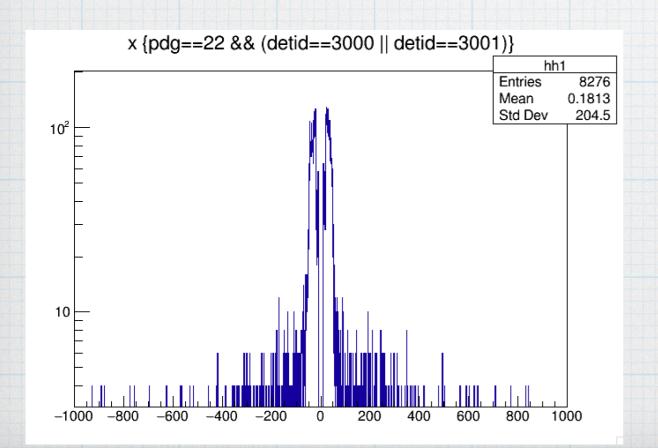


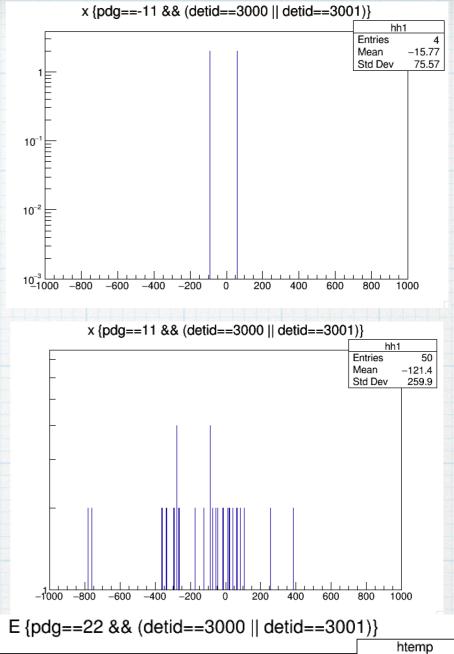


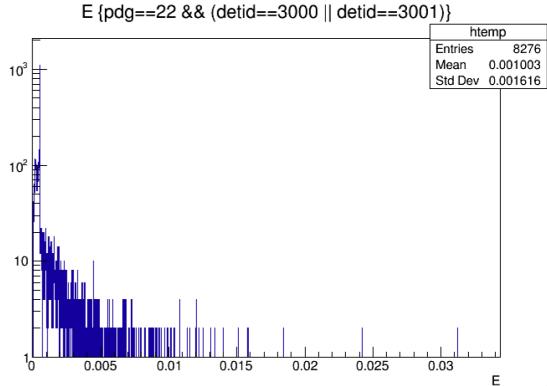
Back up



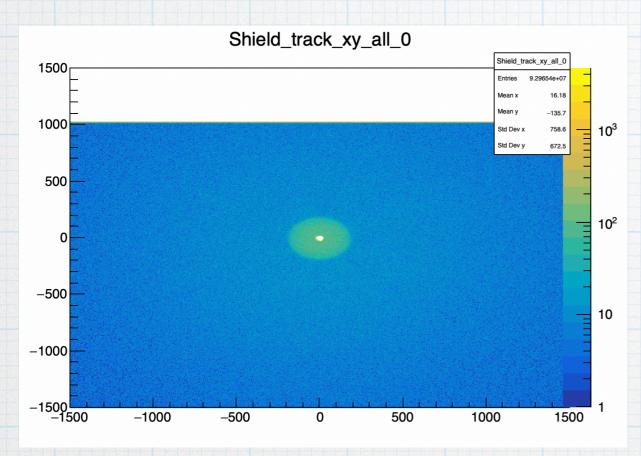
Mono photon beam, E = 8 GeV

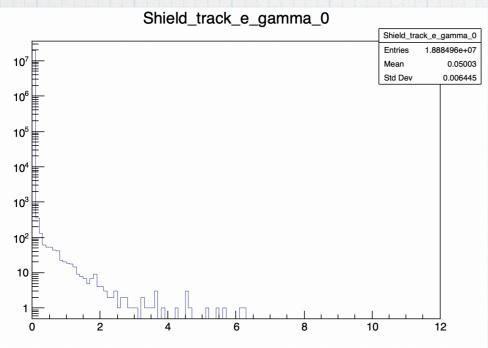


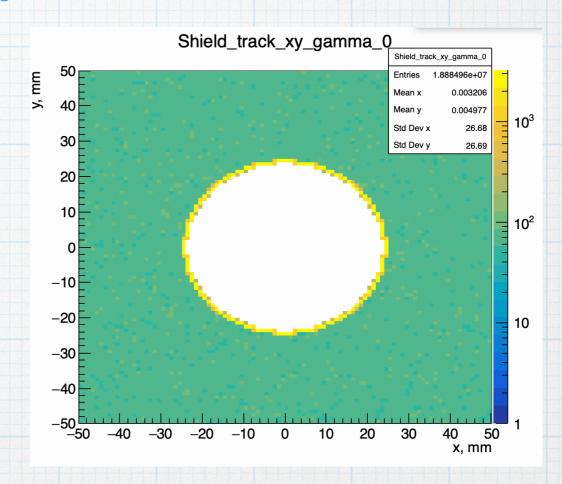




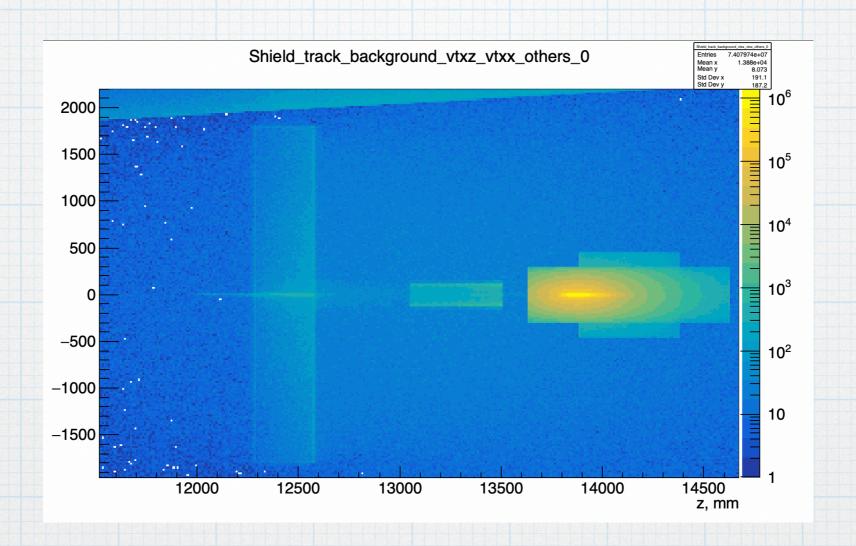
Tracks at the front plane of Shielding







Vertex



In shielding

