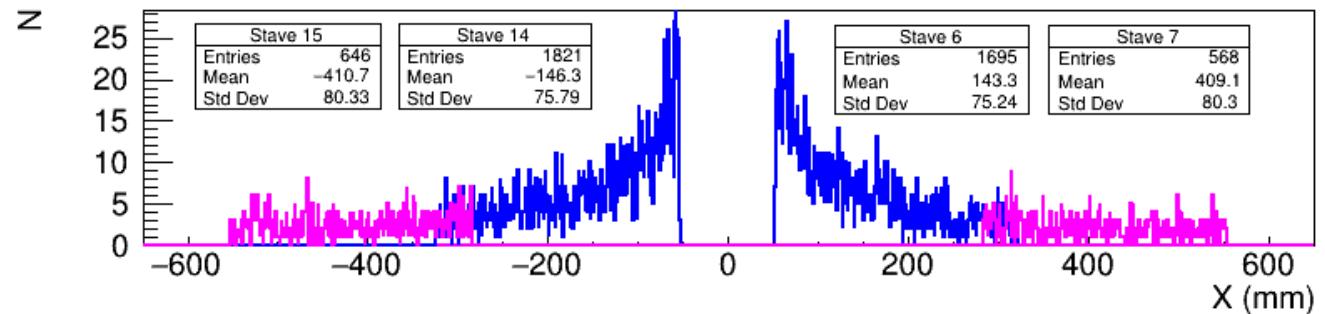
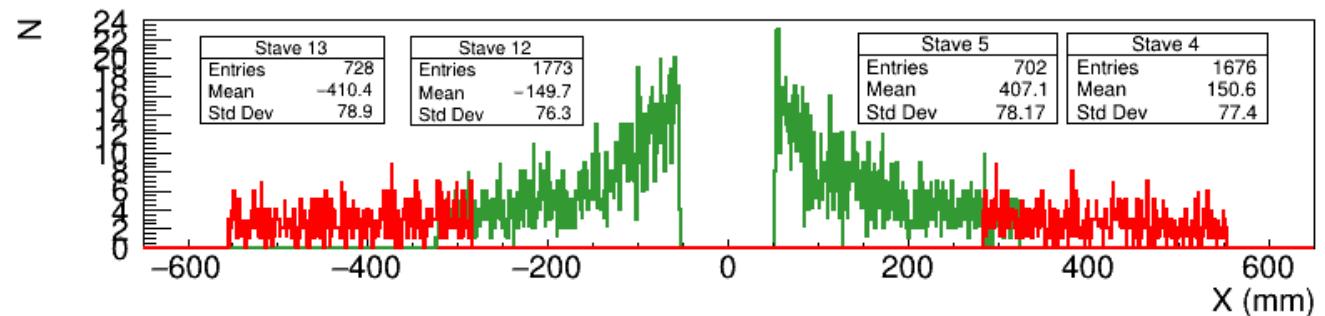
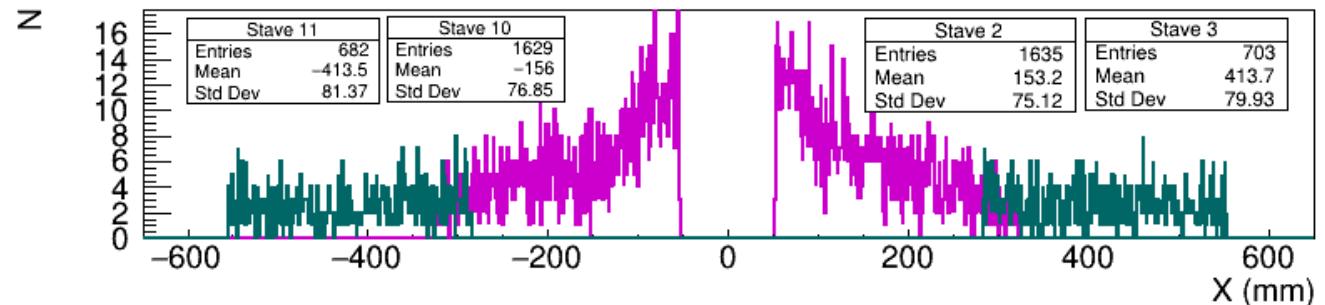
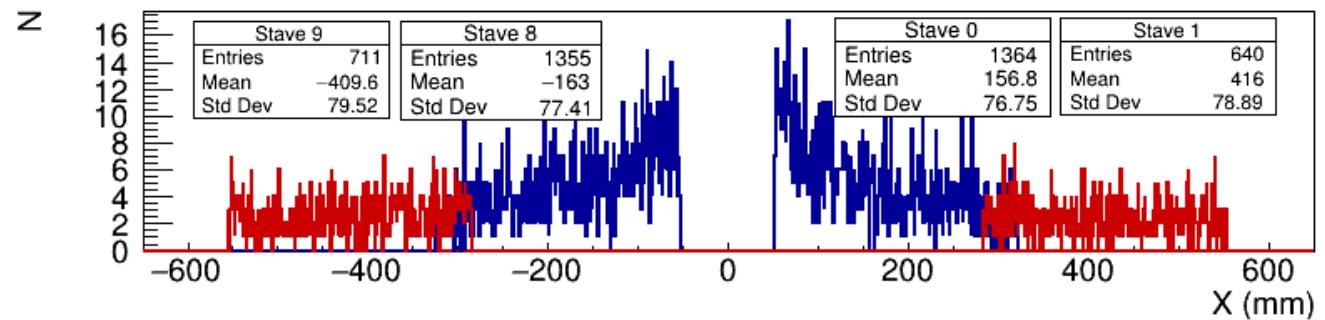


# Update on Background Simulation

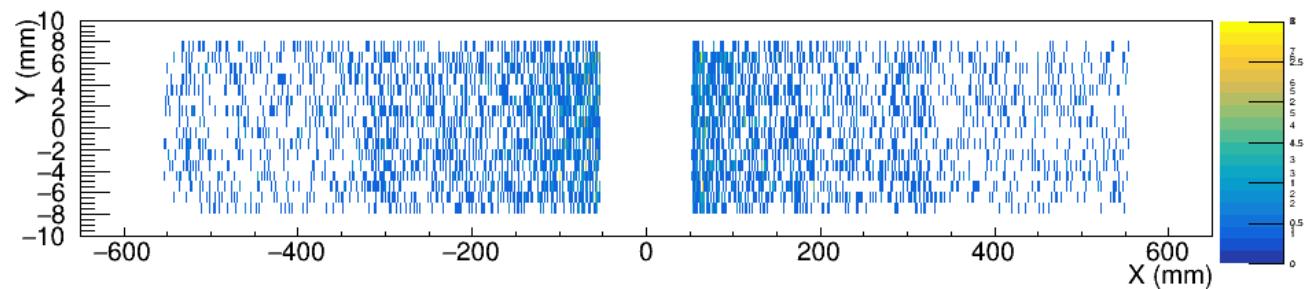
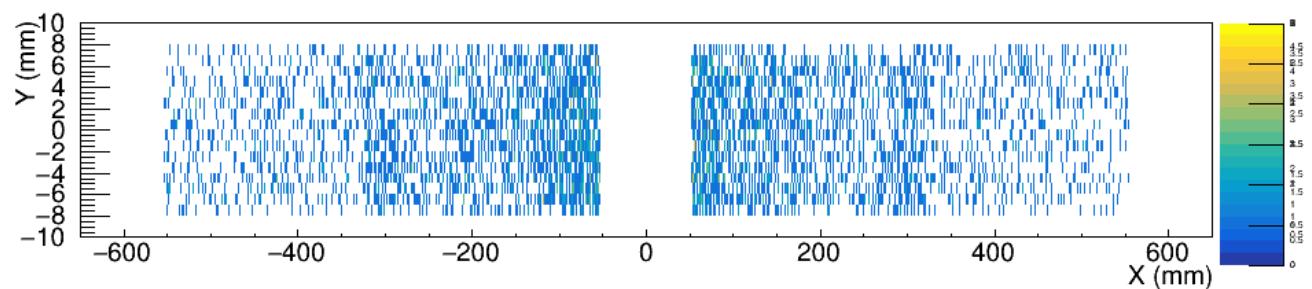
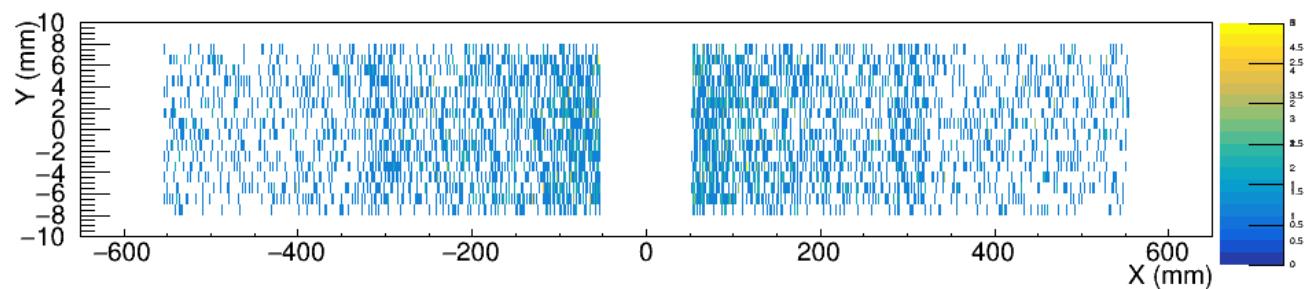
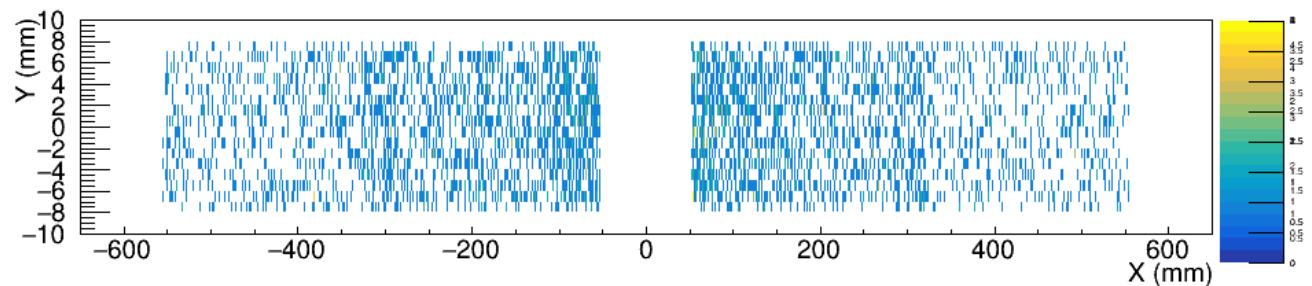
Oleksandr Borysov

LUXE Meeting  
September 1, 2020

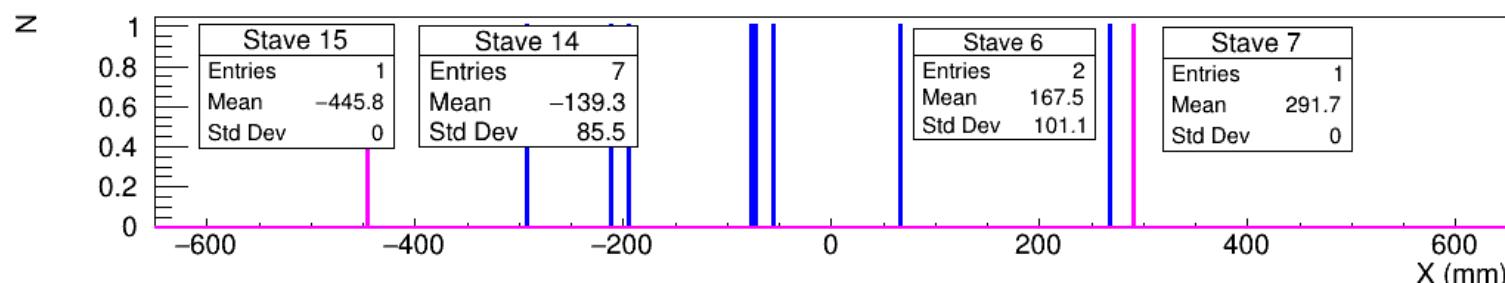
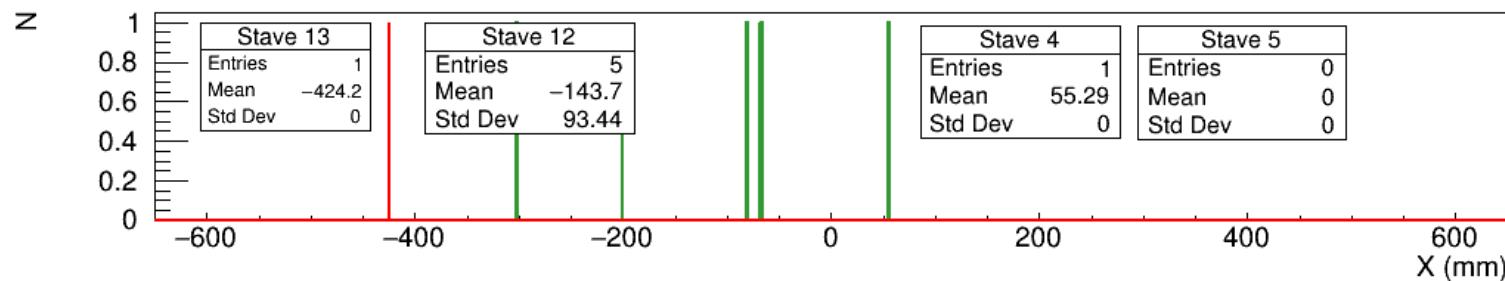
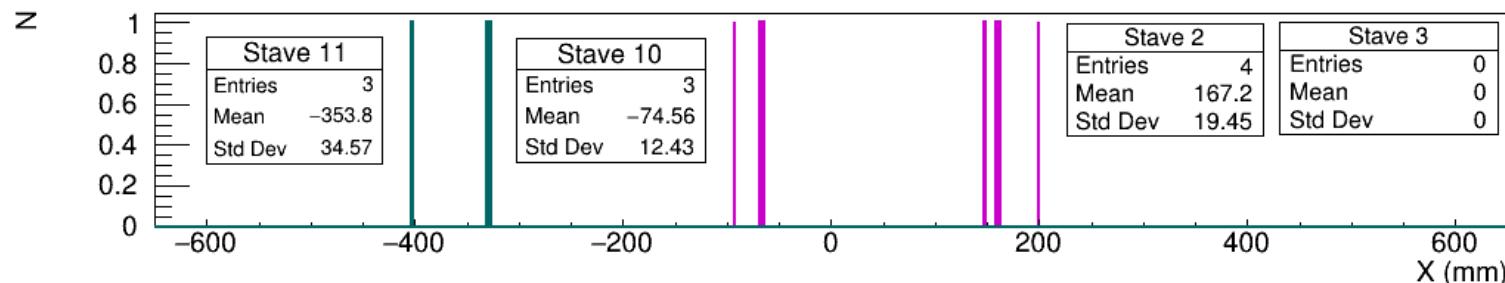
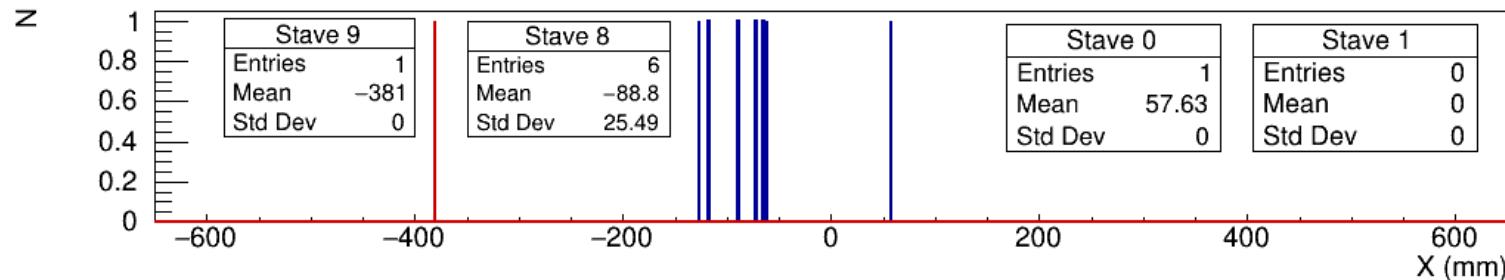
# Electrons in tracking planes



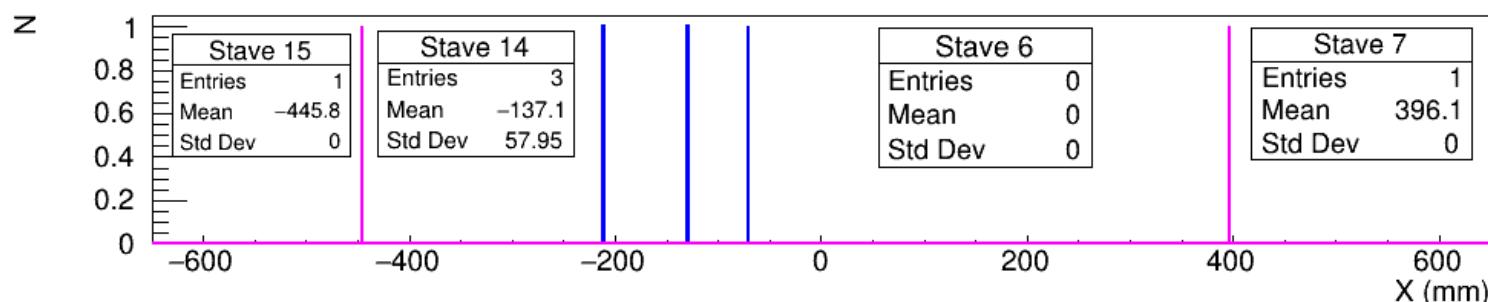
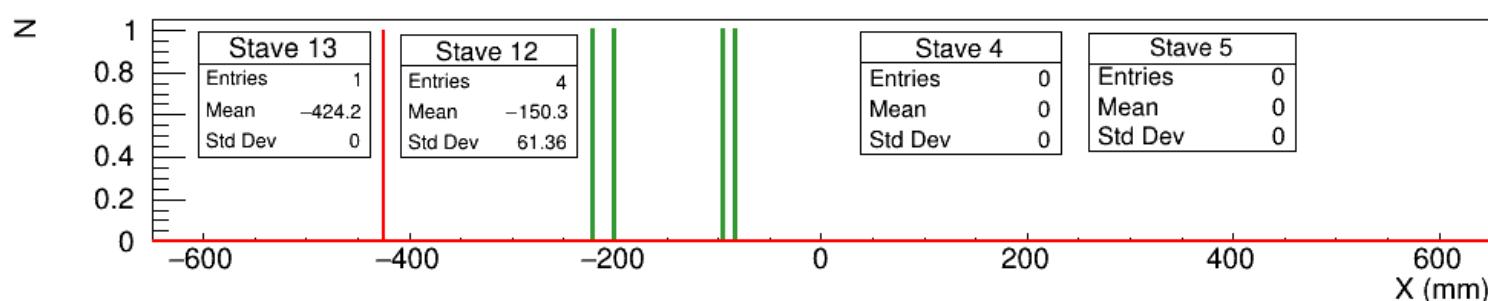
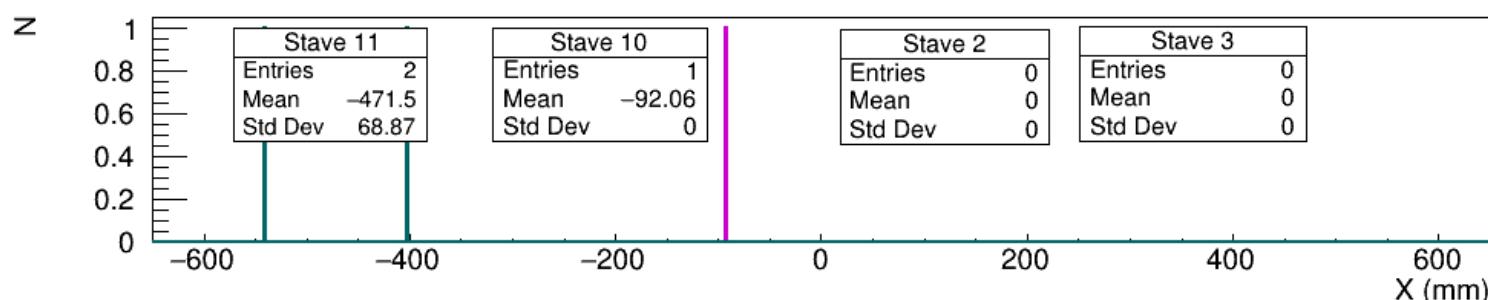
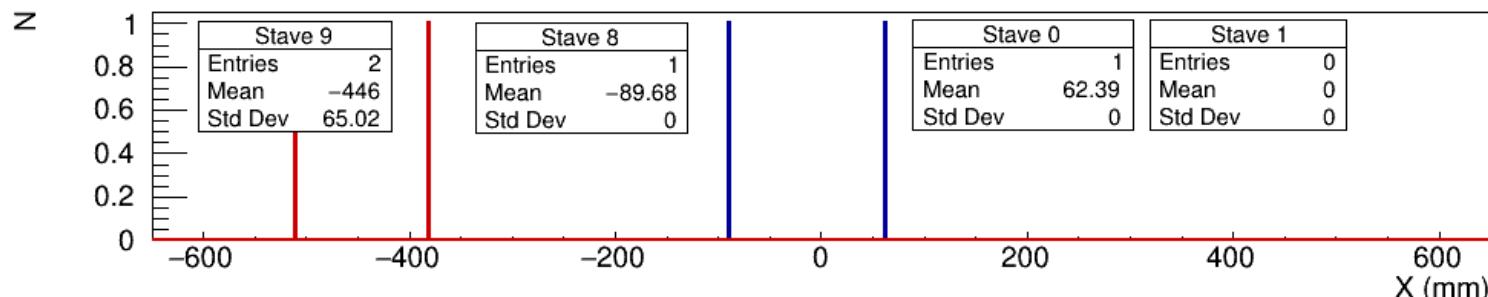
# Tracking planes, all particles



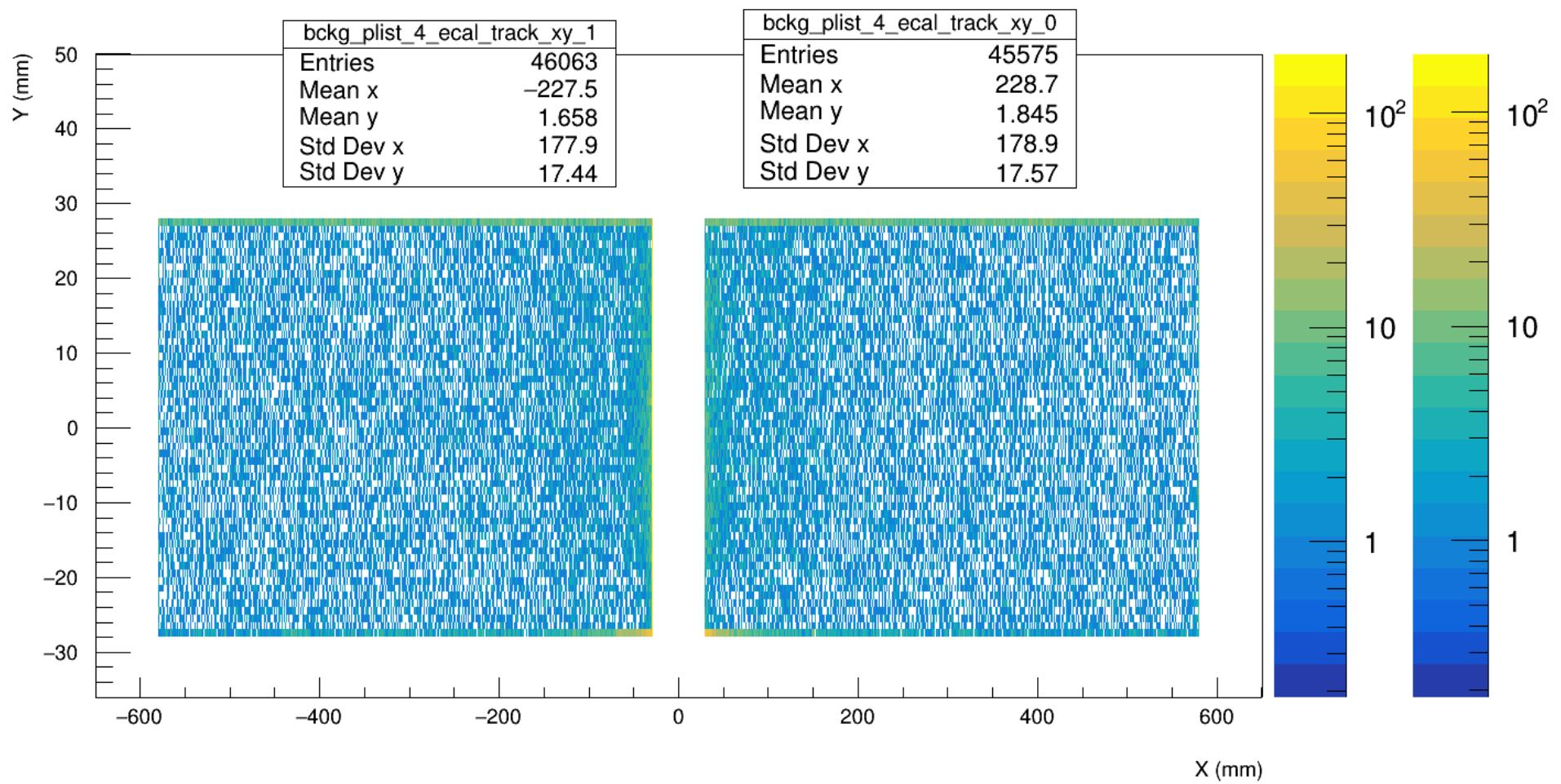
# Electrons with momentum pointing to the magnet aperture



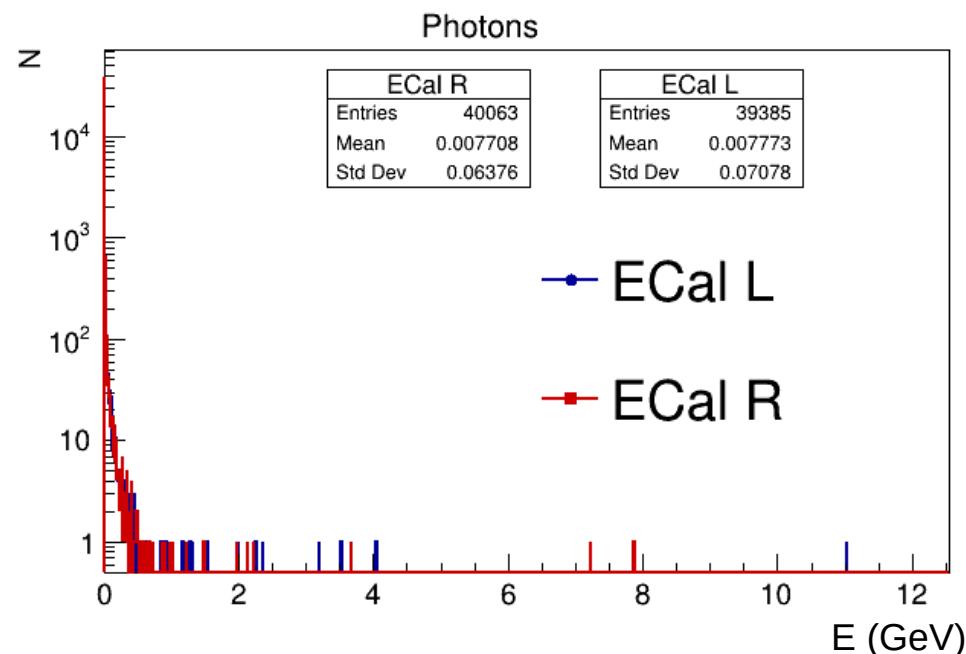
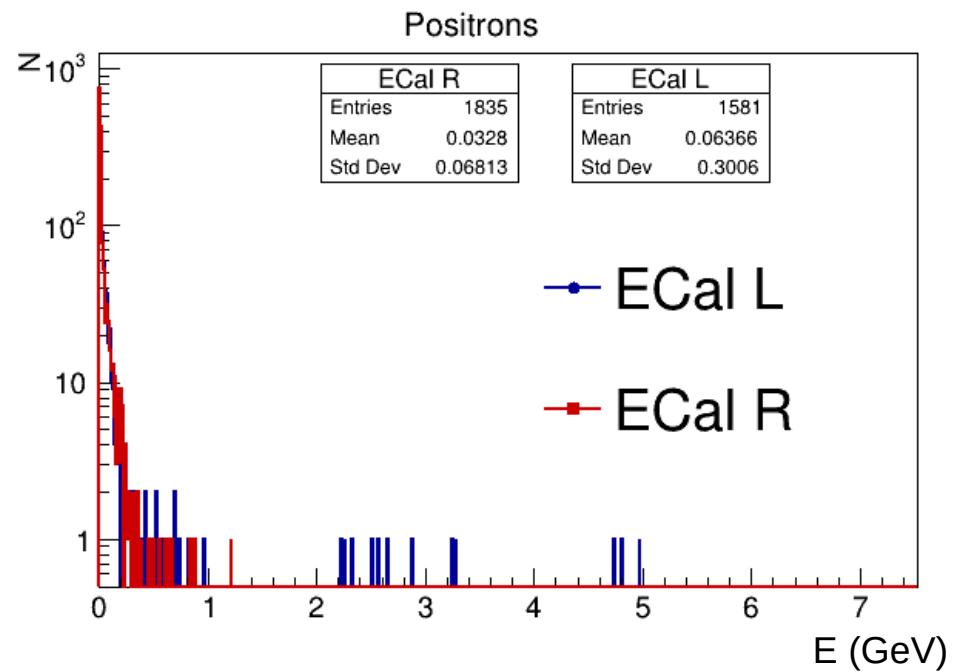
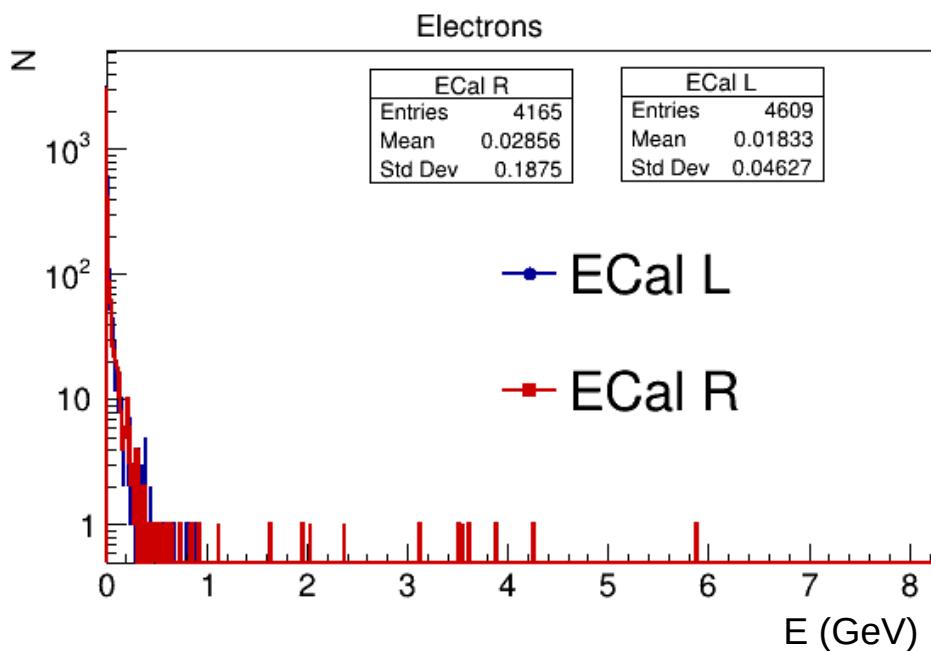
# Electrons with the vertex position “inside” the magnet



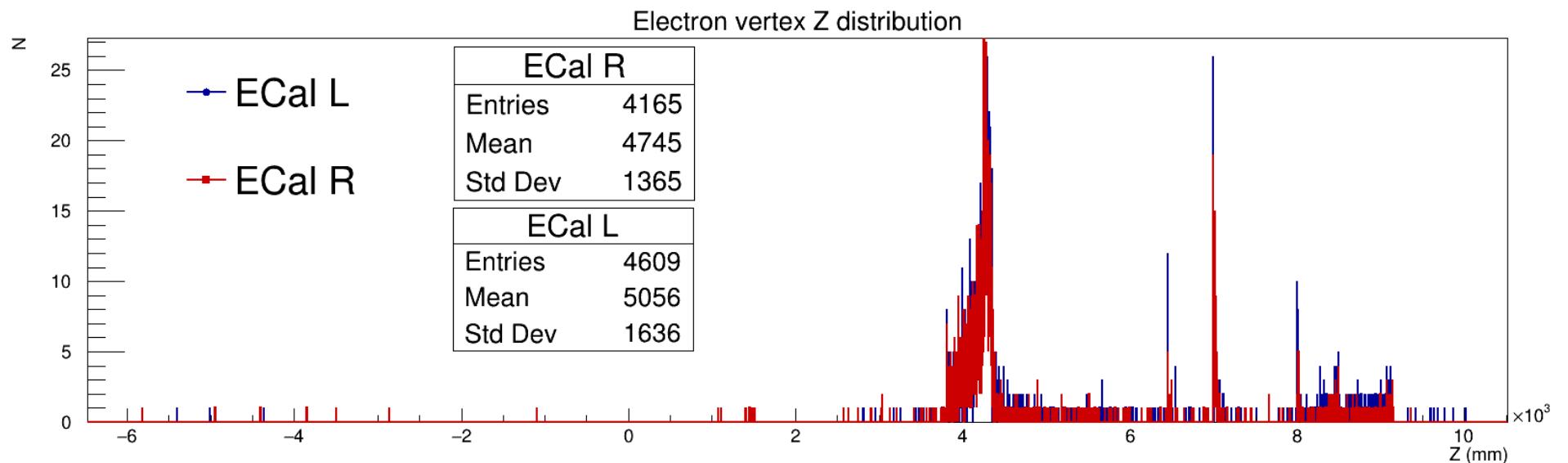
# Calorimeter, all particles



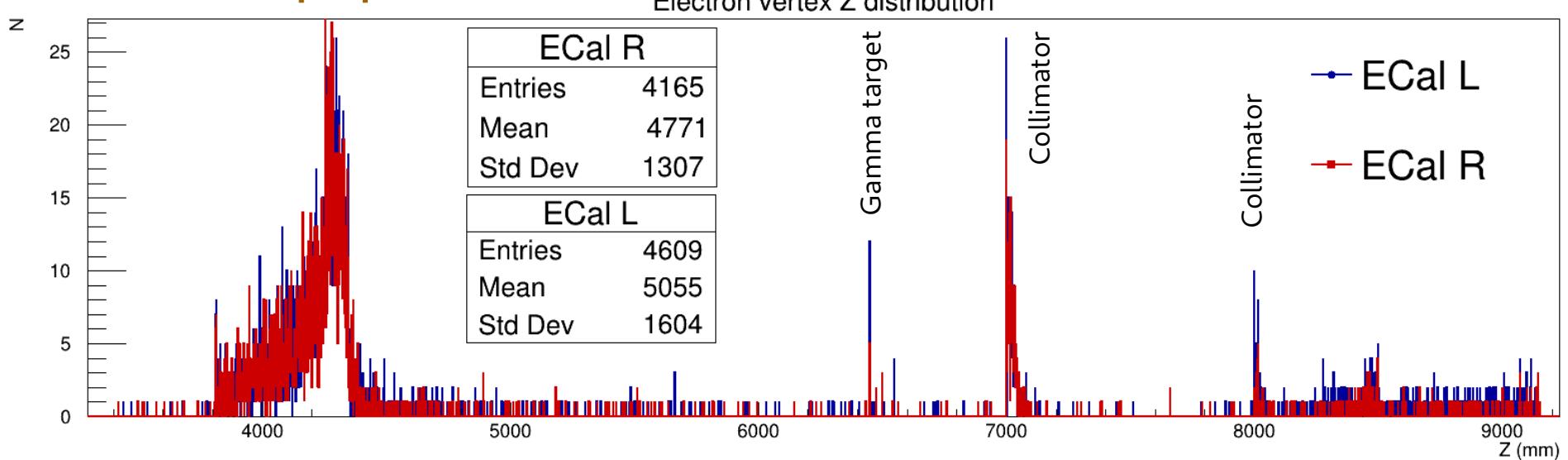
# Spectra of particles crossing calorimeters volumes



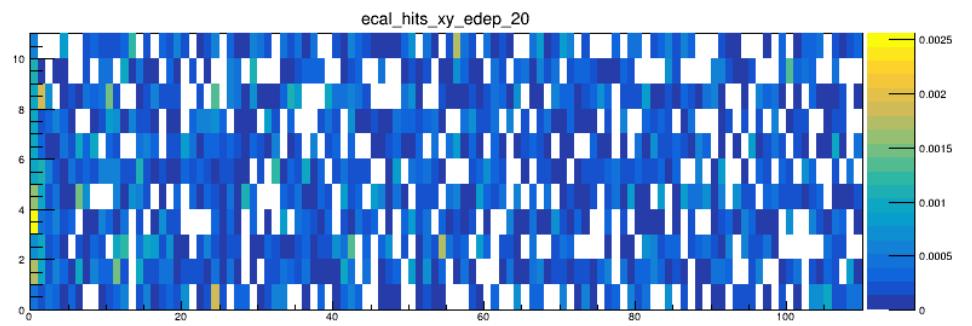
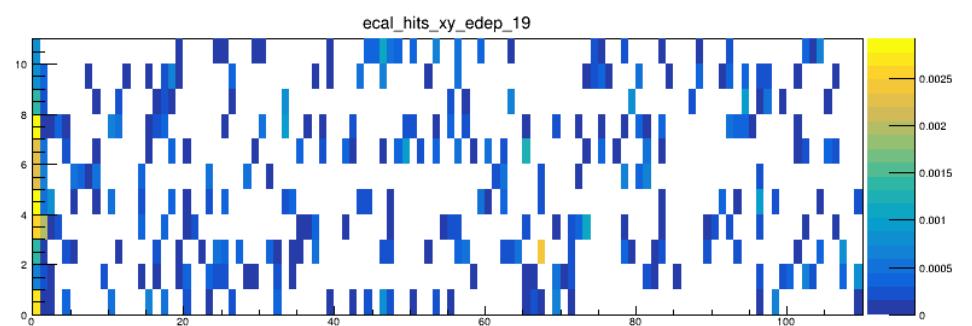
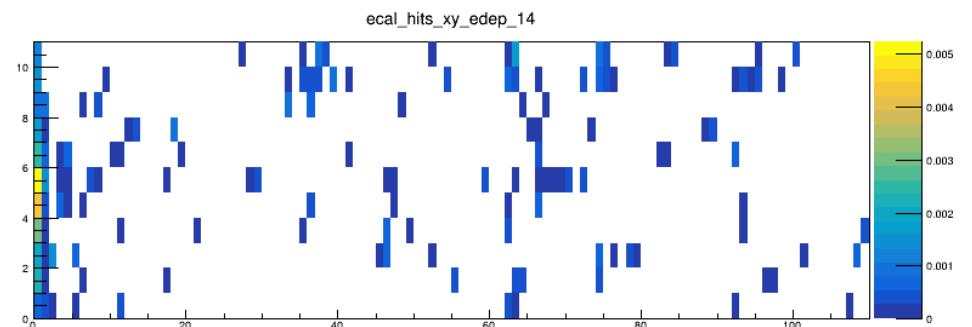
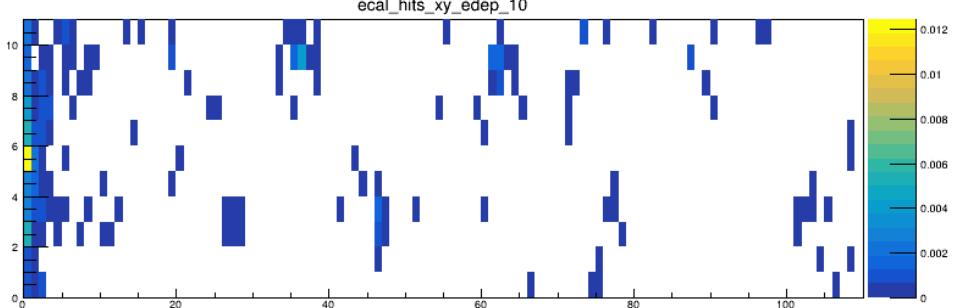
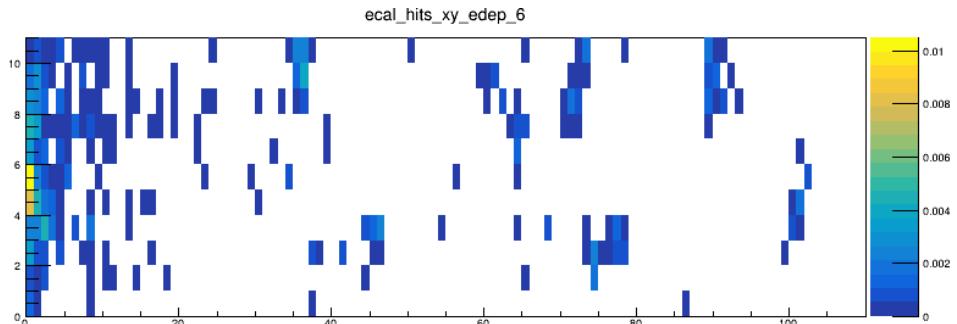
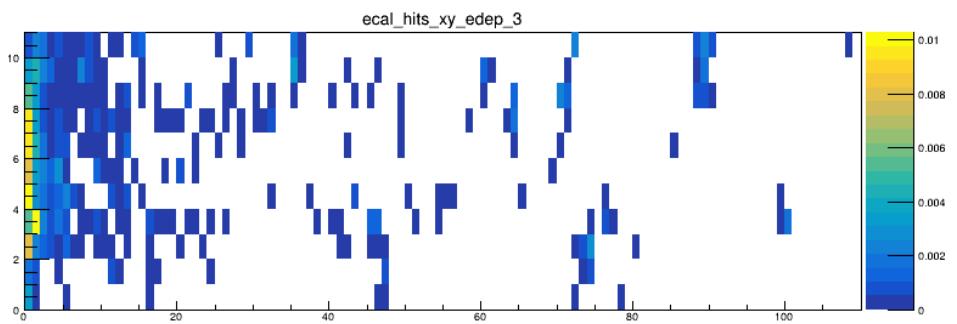
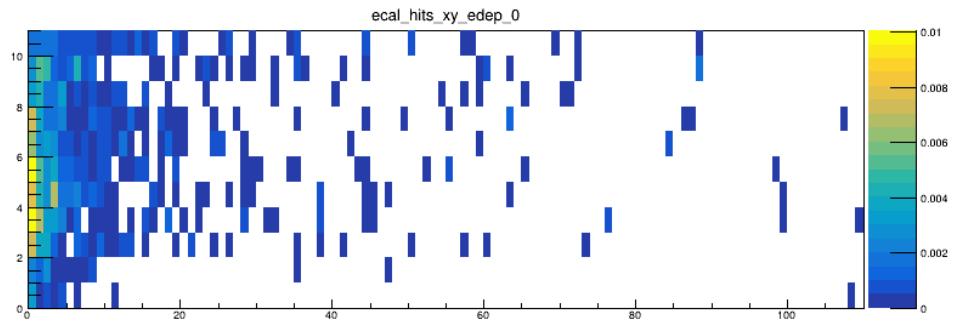
# Vertex distribution of electrons hitting calorimeter



Calorimeter  
4.25 – 4.35 (m)



# Energy deposit in calorimeter layers



# Summary

- About 3 BX are available for background analysis.
- Tracking planes could perform reasonably well.
- Calorimeter might need some shielding to reduce tracks entering its volume from backside, top (and bottom).