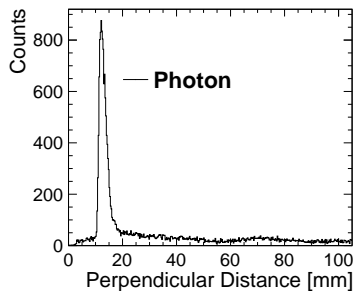
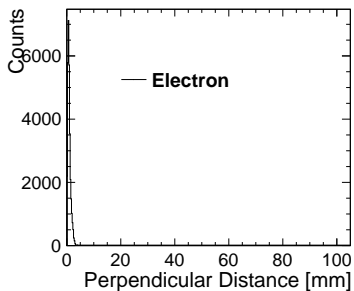
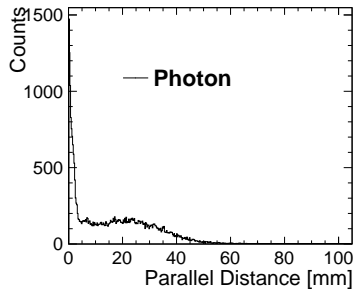
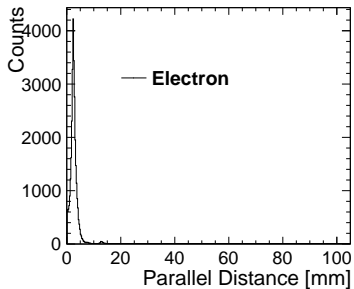
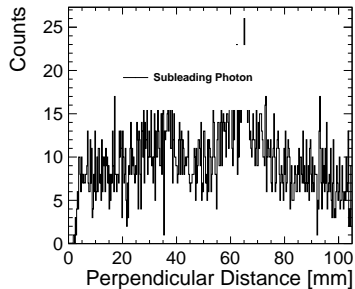
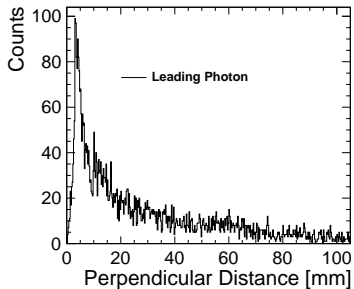
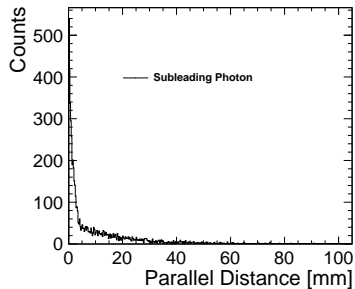
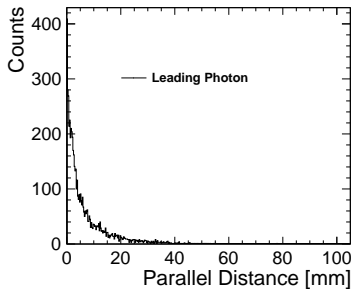


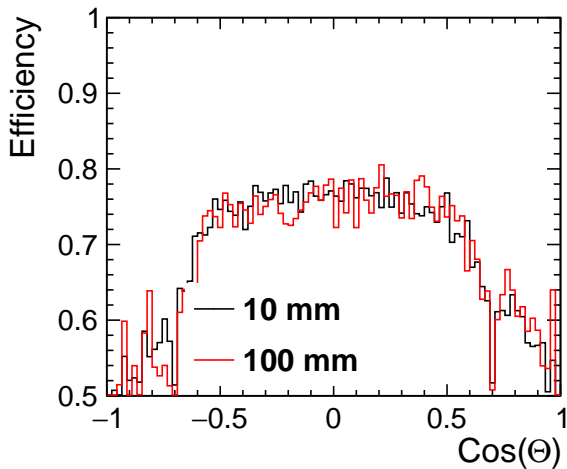
- Investigate track-cluster association done by Pandora to understand low efficiency for low energetic electron
- Pandora calculate 3 variables which are used to decide either track is associated to cluster or not :
 - Opening angle between cluster direction and track state ($\cos(\theta) > 0.0$)
 - Parallel distance between cluster and position of track state on ECAL surface (100 mm)
 - Perpendicular distance between cluster and position of track state on ECAL surface (10 mm)
- attempt to calculate these variables and check their distributions for events when electron reconstruction fails

Events with 1 electron and 1 photon reconstructed



Events with 2 photons reconstructed





- No effect on efficiency from changing cut on perpendicular track-cluster distance