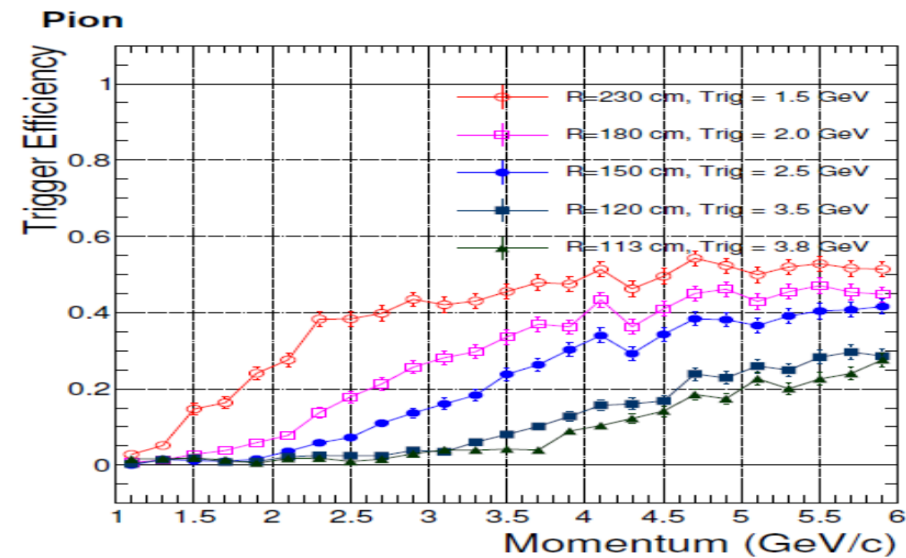
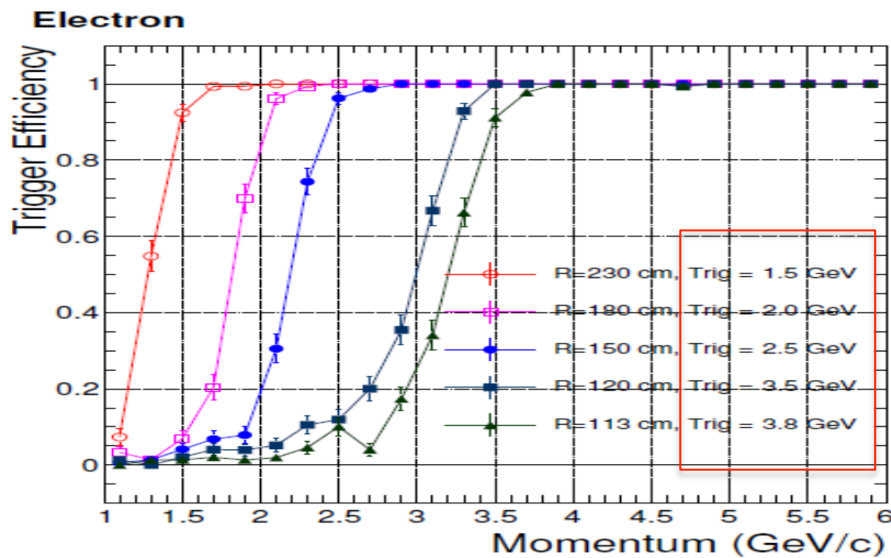


Updates

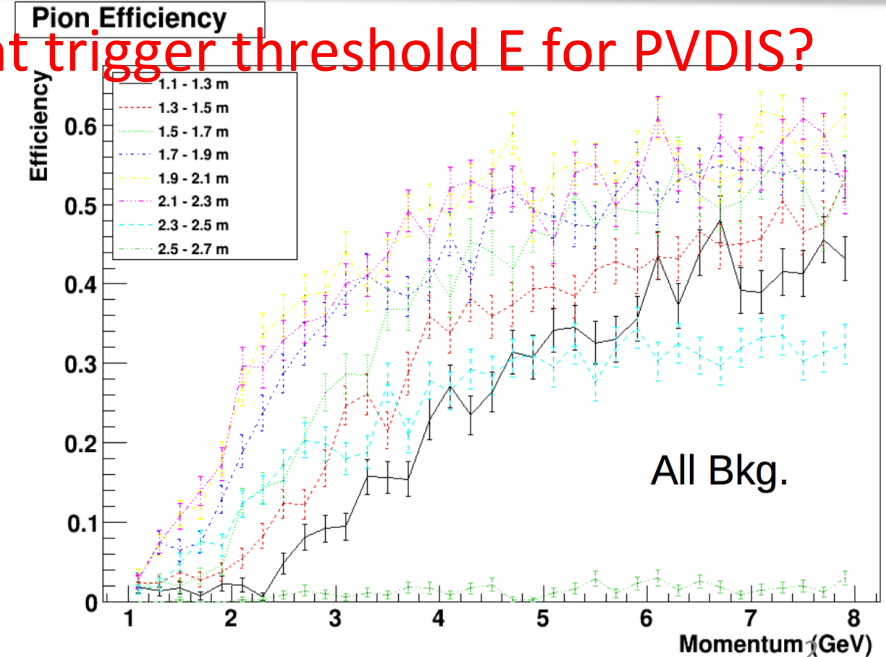
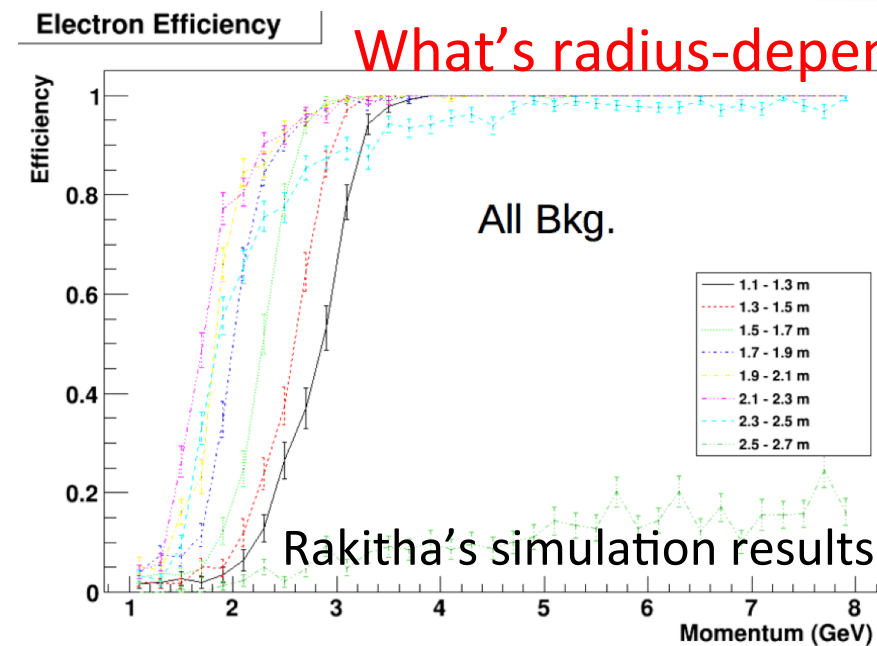
- PVDIS ECAL trigger response comparison: preCDR results, Rakitha's Remoll simulation, and GEMC simulation results.
- Backgrounds: merge individual background file and wait for the whole backgrounds simulation.

09/19/2017

Radial response functions from preCDR



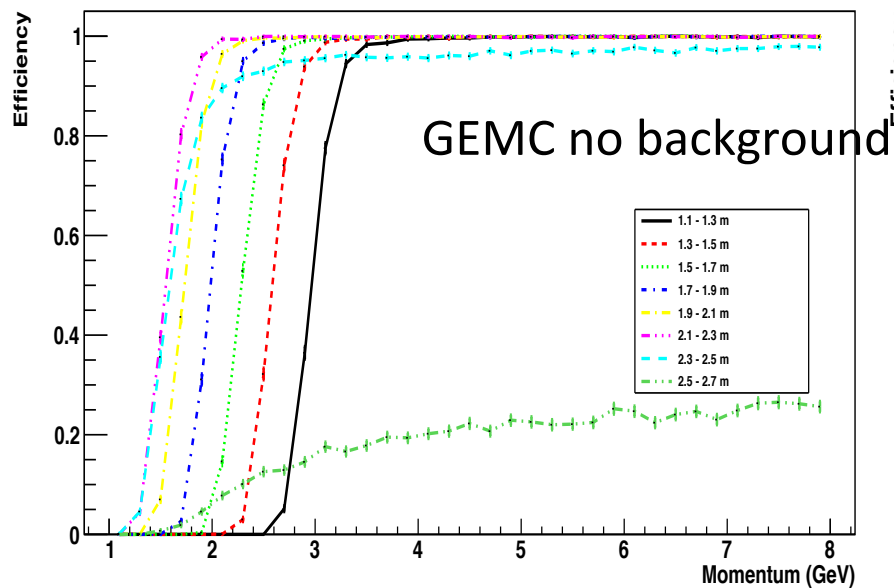
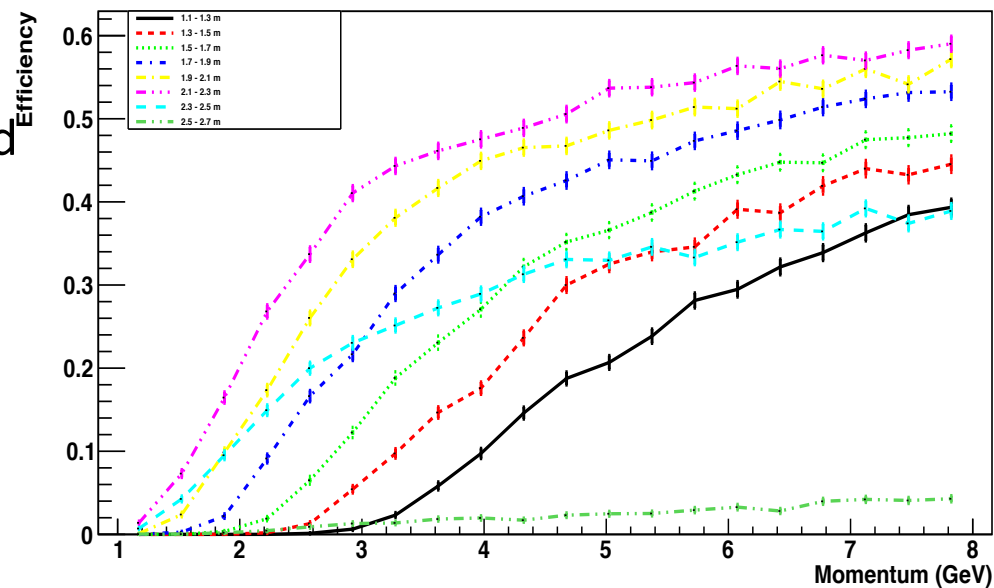
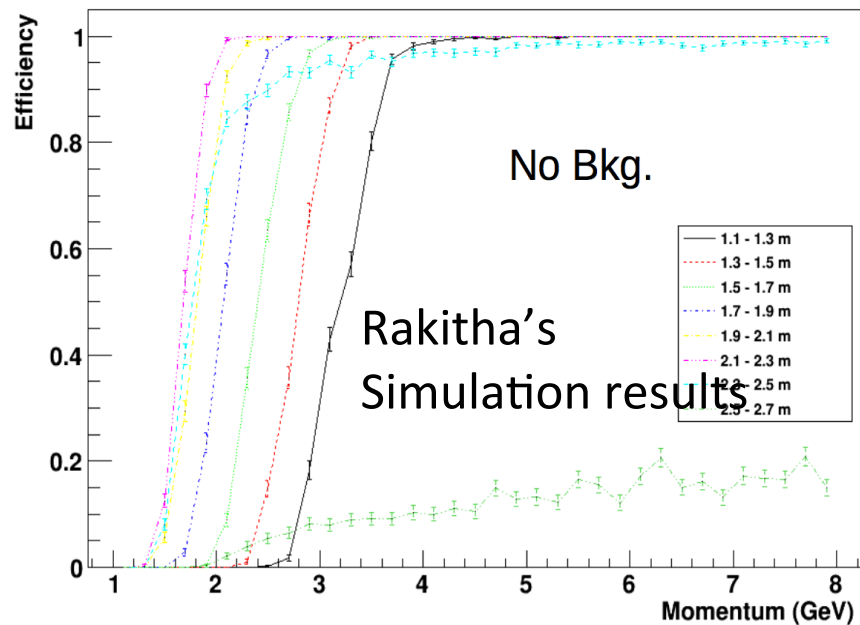
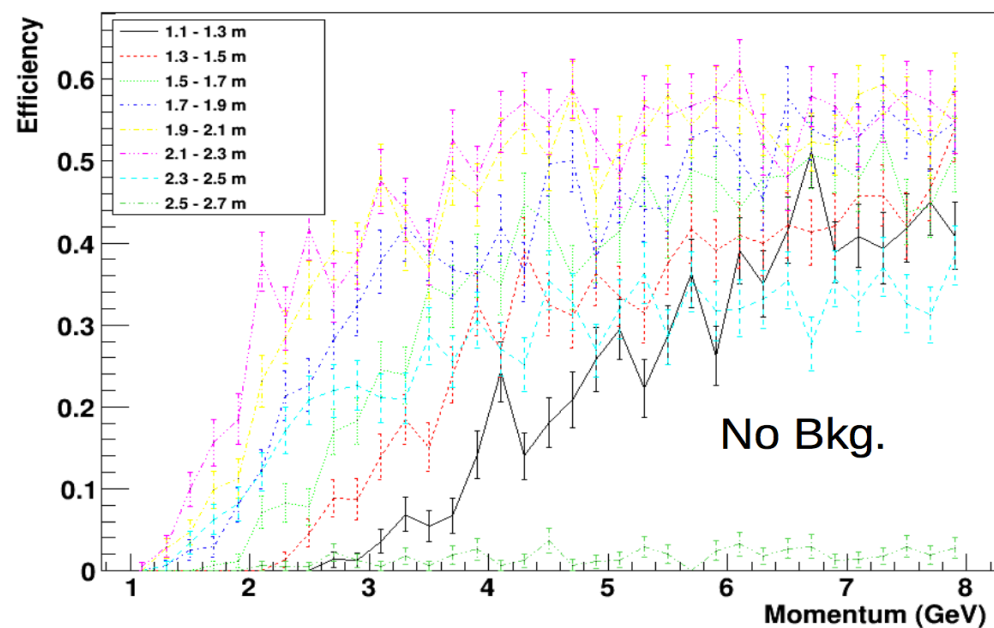
EM, **Wiser** π^- , π^0 , π^+ Background
(a) Higher-radiation azimuthal region



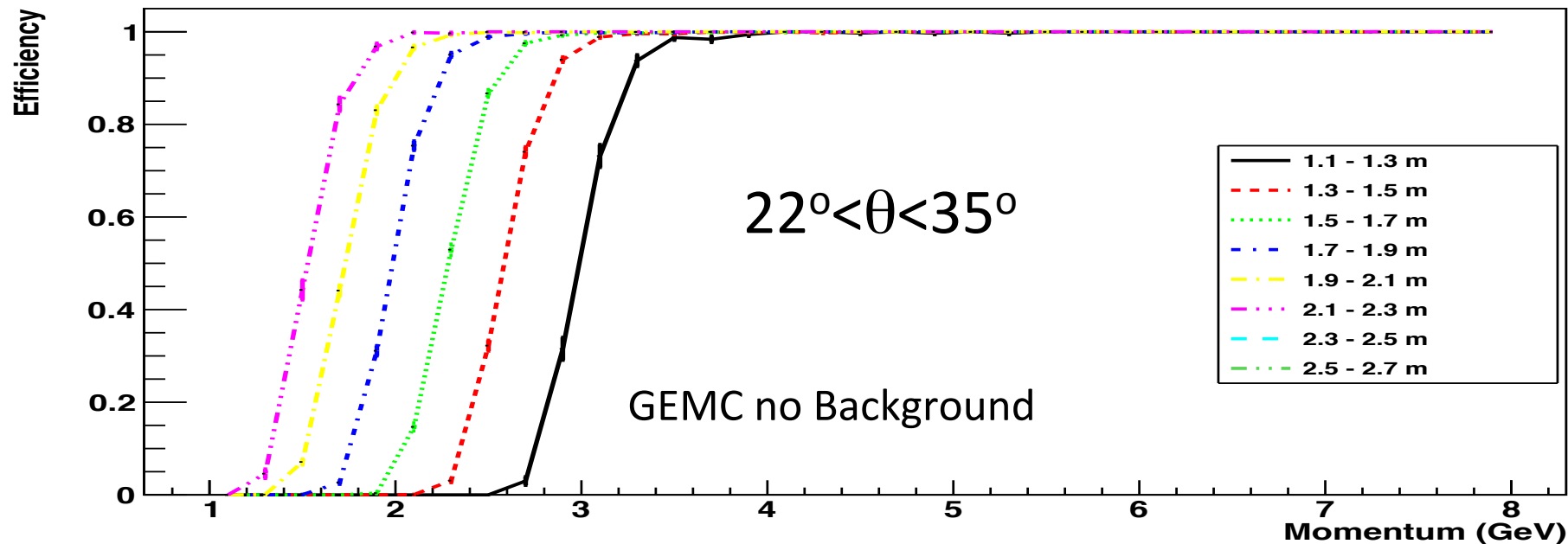
EM, **HalID** π^- , π^0 , π^+ Background

Merge Backgrounds

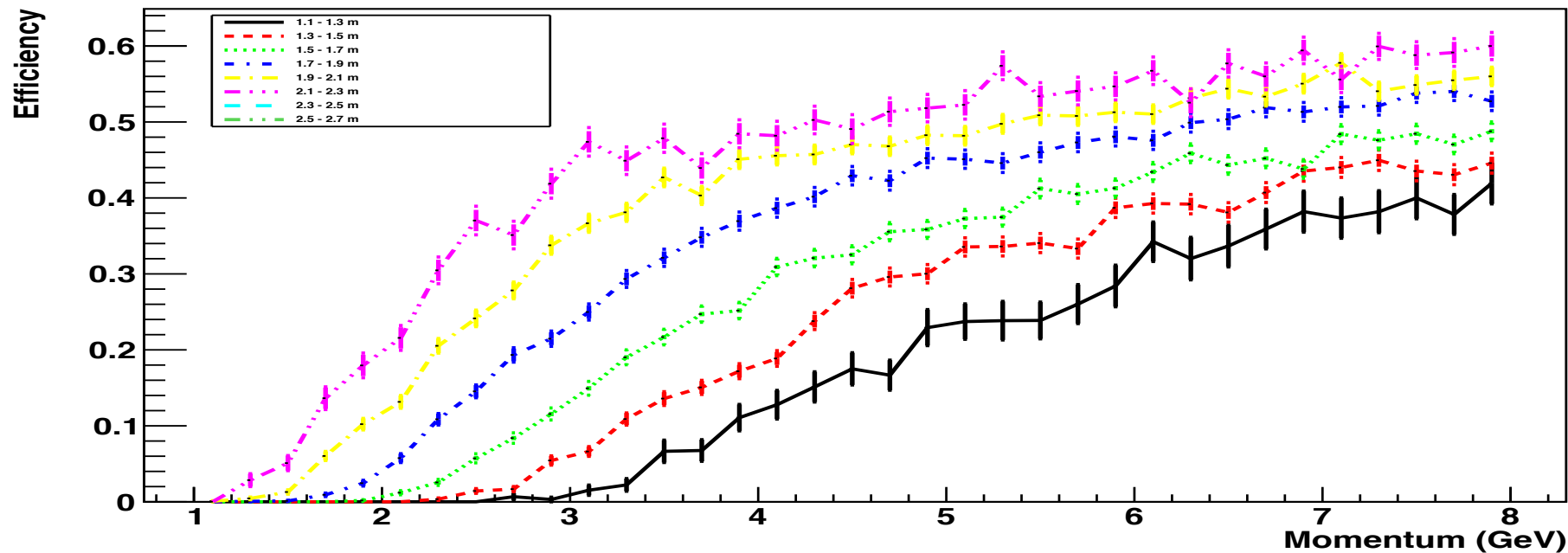
- Vertex rate: π^+ (28.5 GHz), π^0 (27.3 GHz), and π^- (28.5 GHz)
 - EC flux rate: EM (346.0GHz) ? Rakitha's method
-
- Vertex rate: π^+ (28.8 GHz), π^0 (27.5 GHz), and π^- (28.8 GHz)
 - EC flux rate: EM (110.6 GHz) Ye's comparison method
-
- EC hit rate: π^+ (9.564 GHz), π^0 (5.98 GHz), and π^- (9.545 GHz)
 - EC hit rate: EM (109.54 GHz) Ye's method

Electron Efficiency**Pion Efficiency****Electron Efficiency****Pion Efficiency**

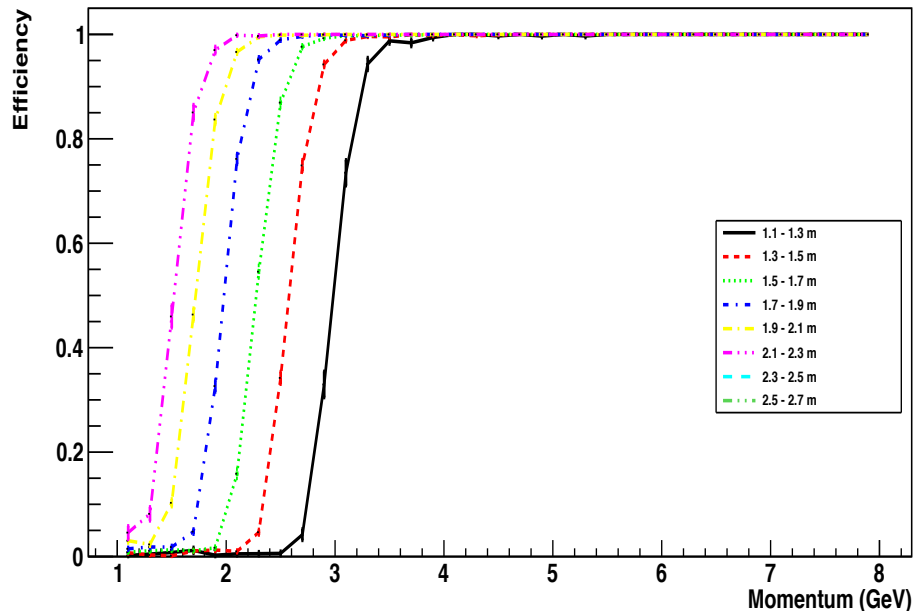
Electron Efficiency



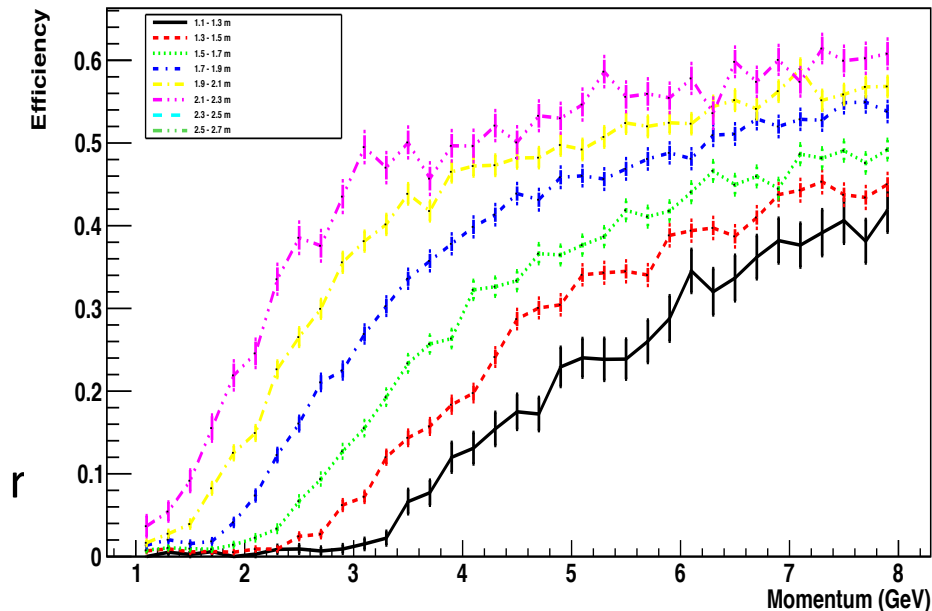
Pion Efficiency



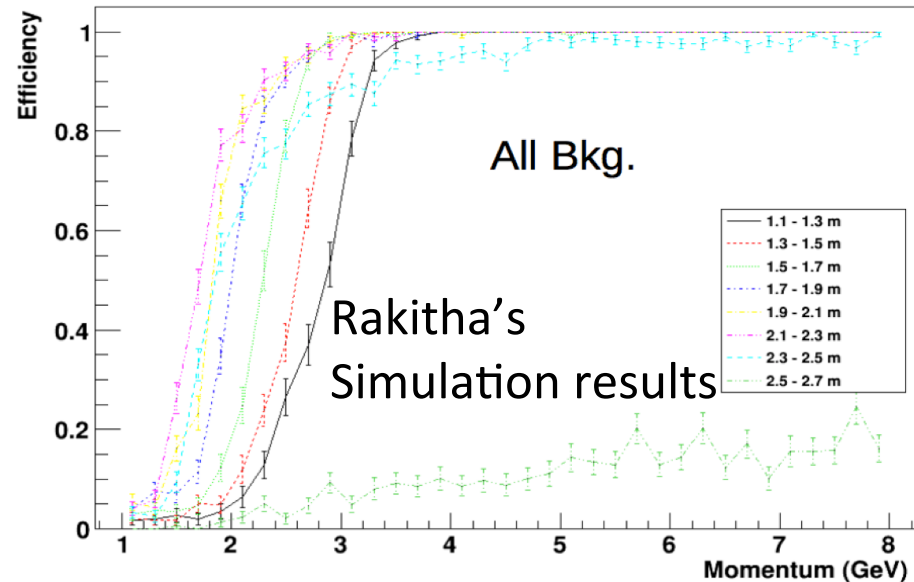
Electron Efficiency



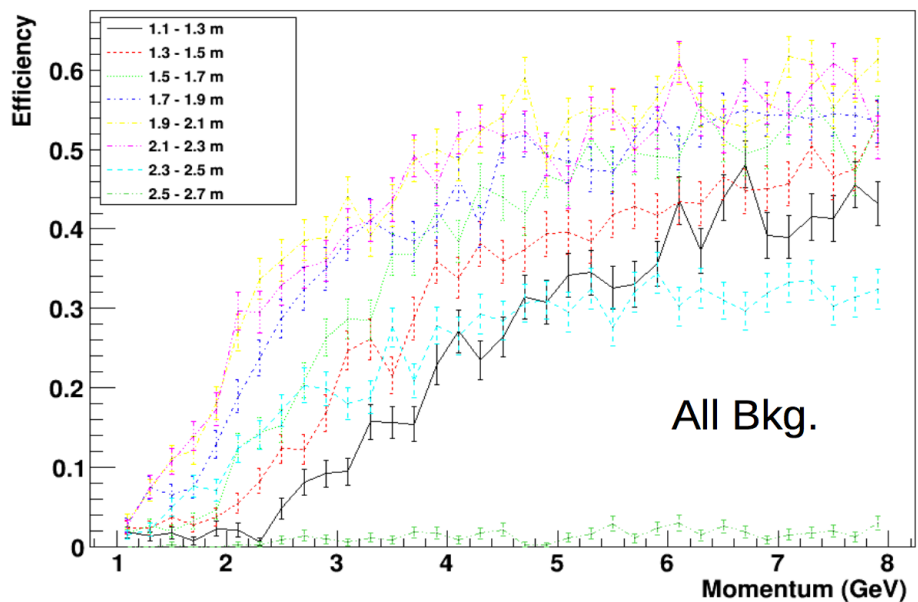
Pion Efficiency



Electron Efficiency



Pion Efficiency



EM, **HalID** π^- , π^0 , π^+ Background

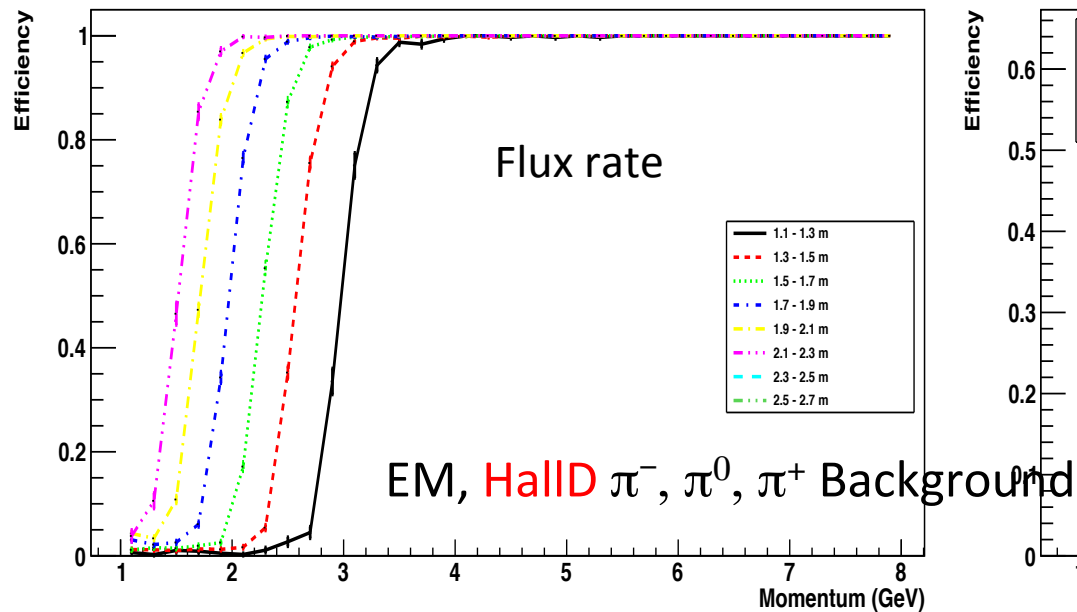
Summary

- The trigger response difference between Rakitha's Remoll simulation and GEMC simulation due to merged backgrounds.
- Need the whole GEANT4 background simulation

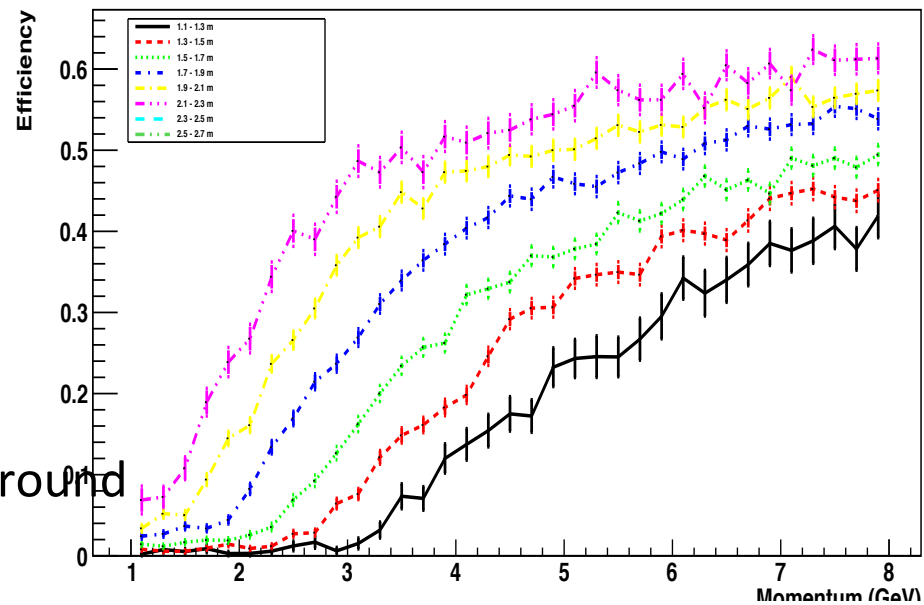
Any comments and suggestions ?

Back up

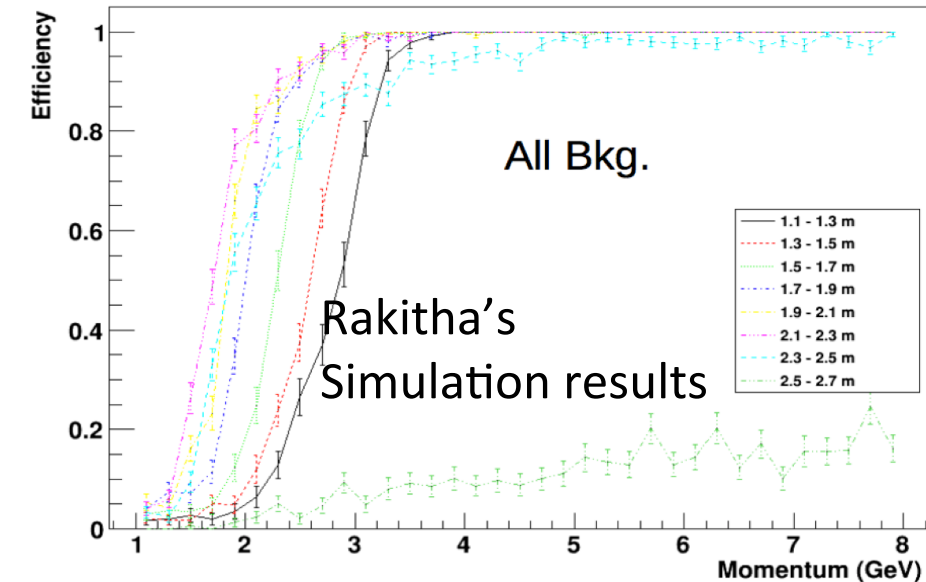
Electron Efficiency



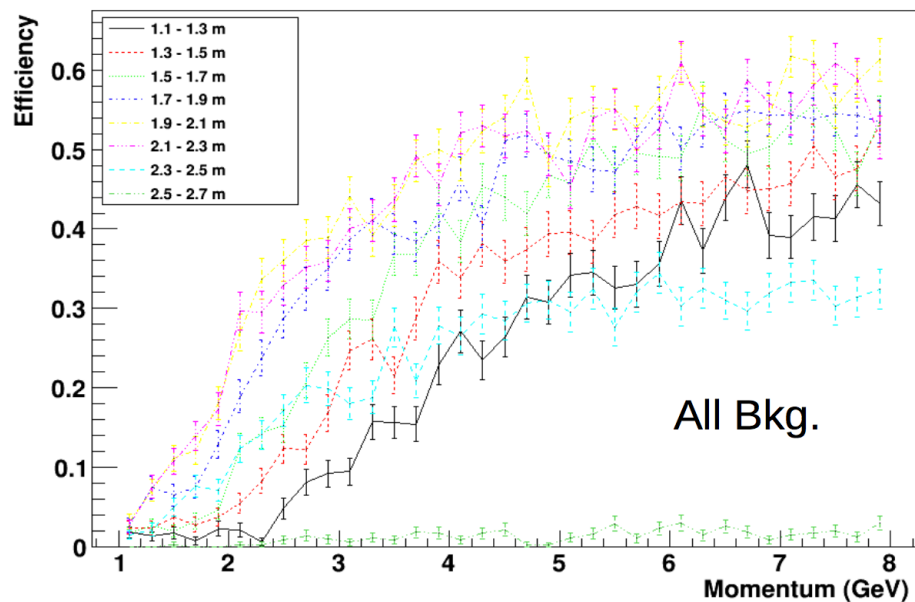
Pion Efficiency



Electron Efficiency

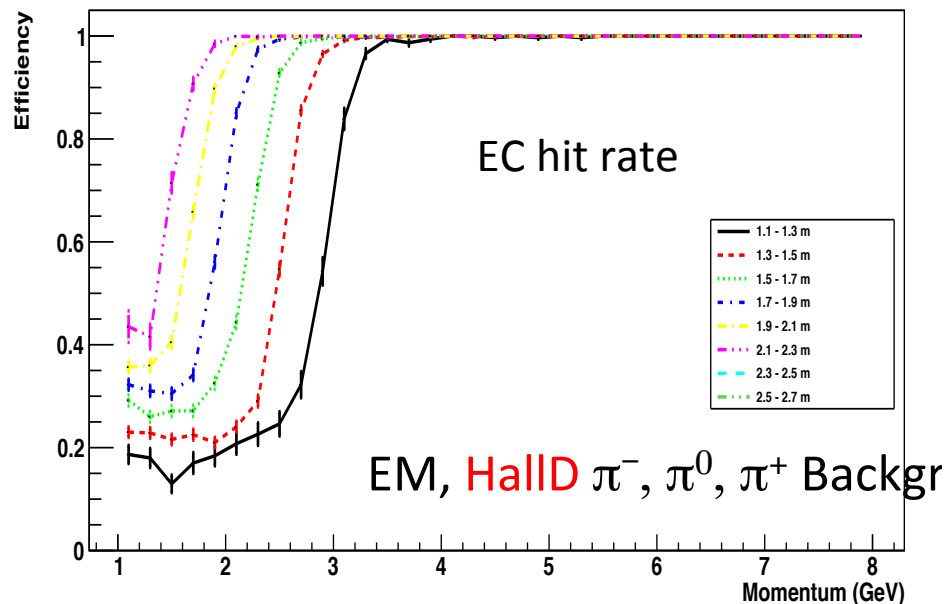


Pion Efficiency

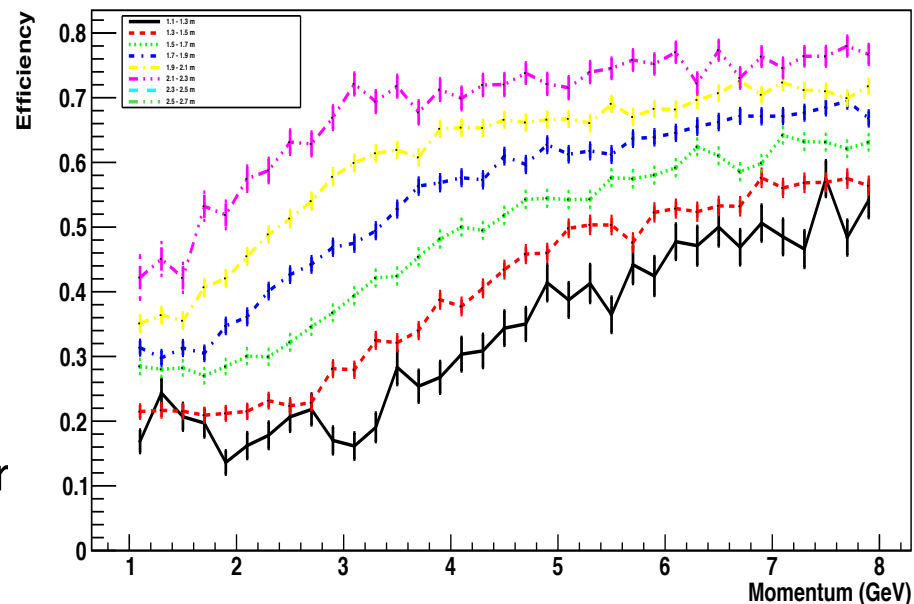


EM, HalID π^- , π^0 , π^+ Background

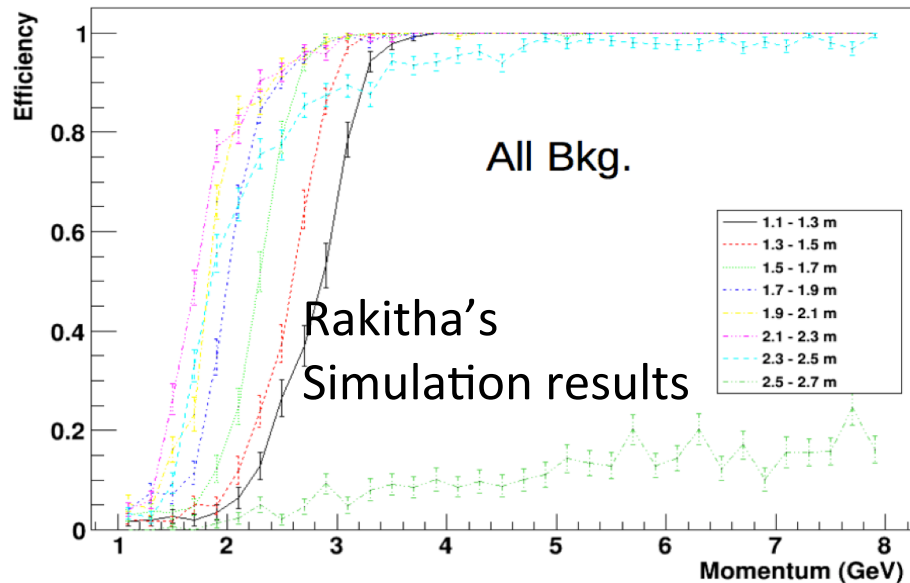
Electron Efficiency



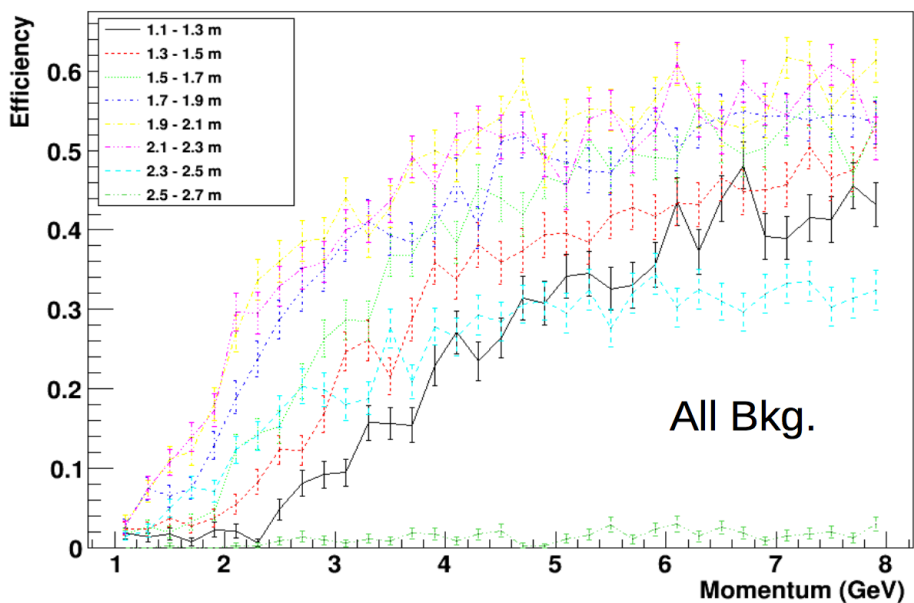
Pion Efficiency



Electron Efficiency



Pion Efficiency



EM, **HalID** π^- , π^0 , π^+ Background