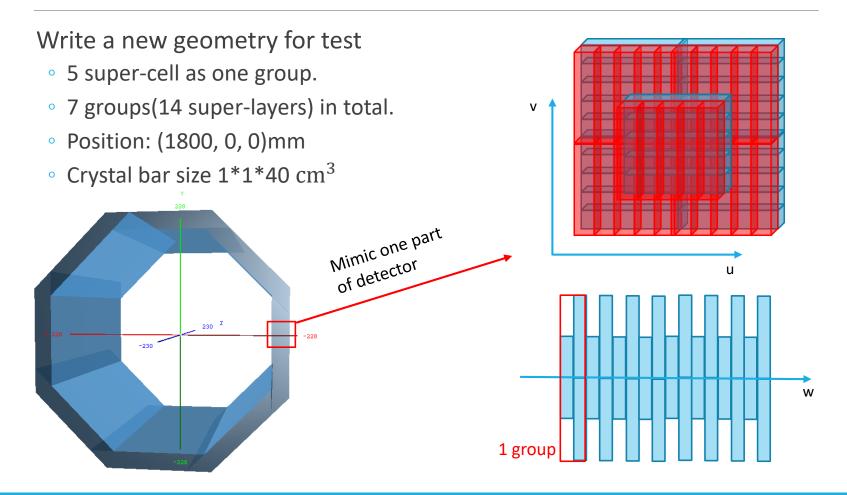
CRD Ecal update

FANGYI GUO

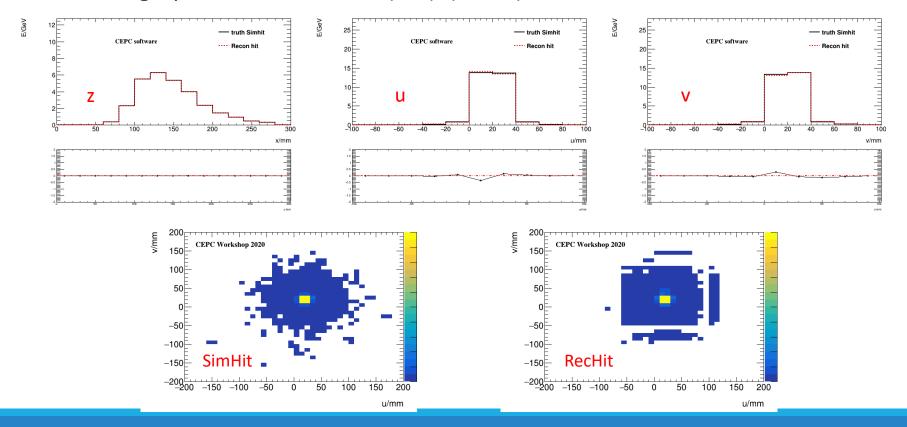
New module for test



New module for test

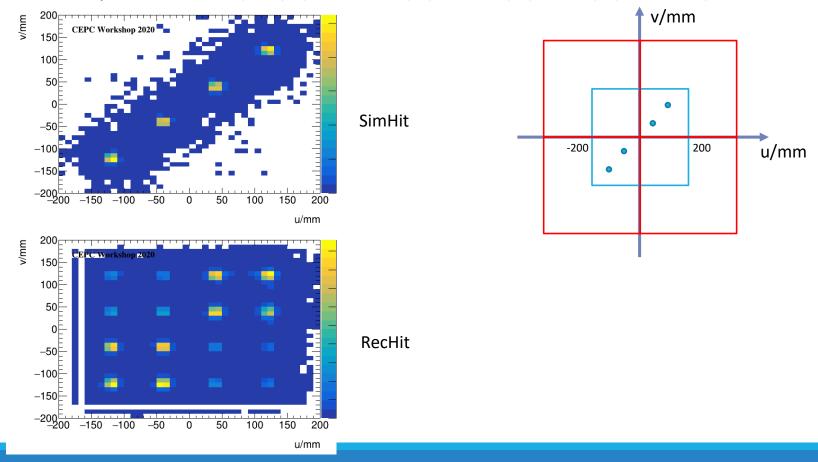
Apply old digitalization and reconstruction into this module.

Single photon, 30GeV, hit at (u, v)=(20, 20) mm



New module for test

4 10GeV photon, hit at (u, v)=(-120, -120) (-40, -40) (40, 40) (120, 120) mm



New reconstruction concept

Use a sandwich structure to reconstruct hit

Hit position in transvers bar depends on hits in previous and following longitude bars.

Pros:

DigiHit size 1*1*1 cm^3

More flexible for crystals' placement.

Further remove ghost hits from wrong combination in one super-cell.

Cons:

New ghost hits in transvers bars due to wrong combination in 2 longitude layers.

 Possible solution: do this reconstruction in Pandora. Use track projection as a seed to remove ghost hits. (position and direction)

