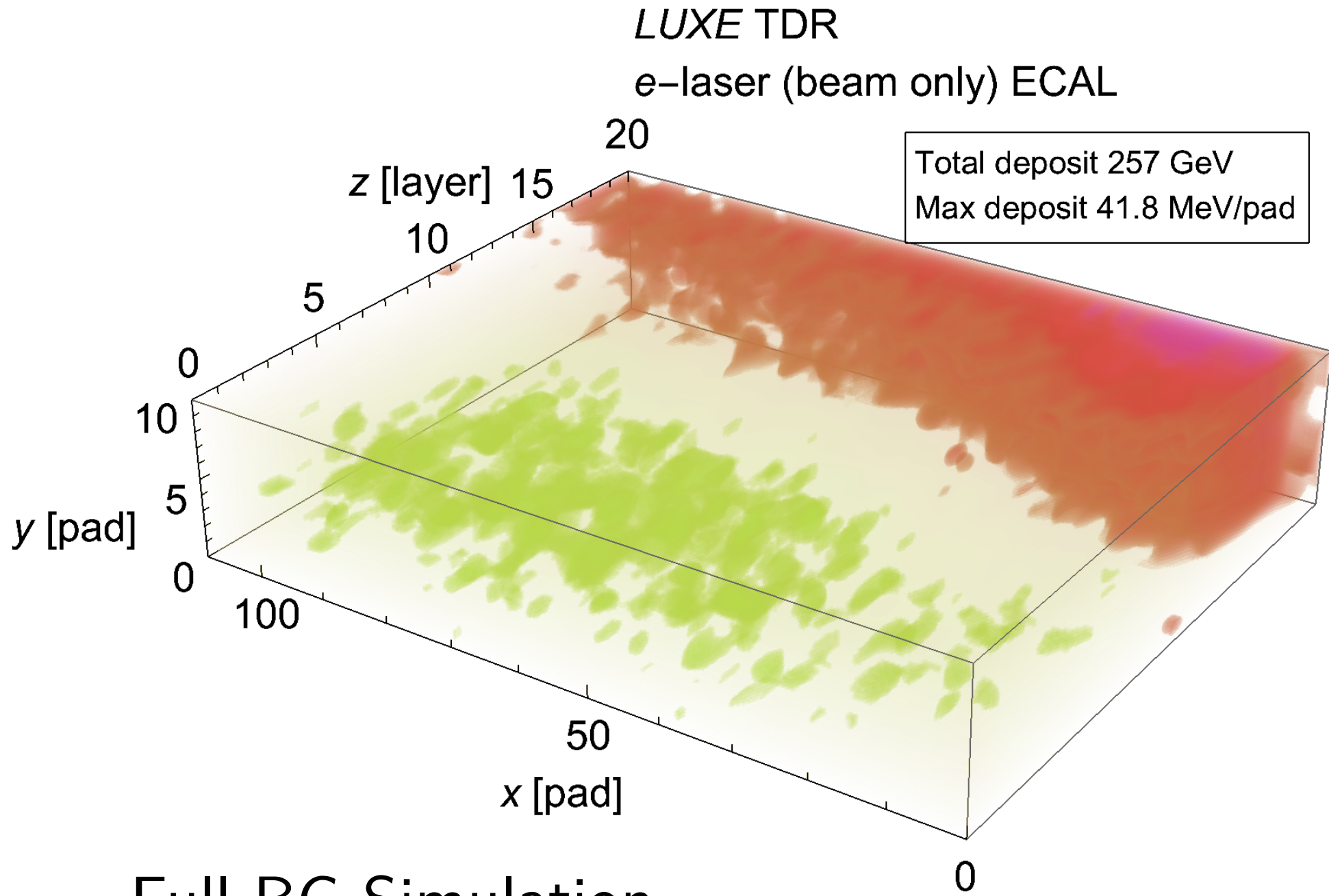


Background Study for ECAL **in TDR geometry**

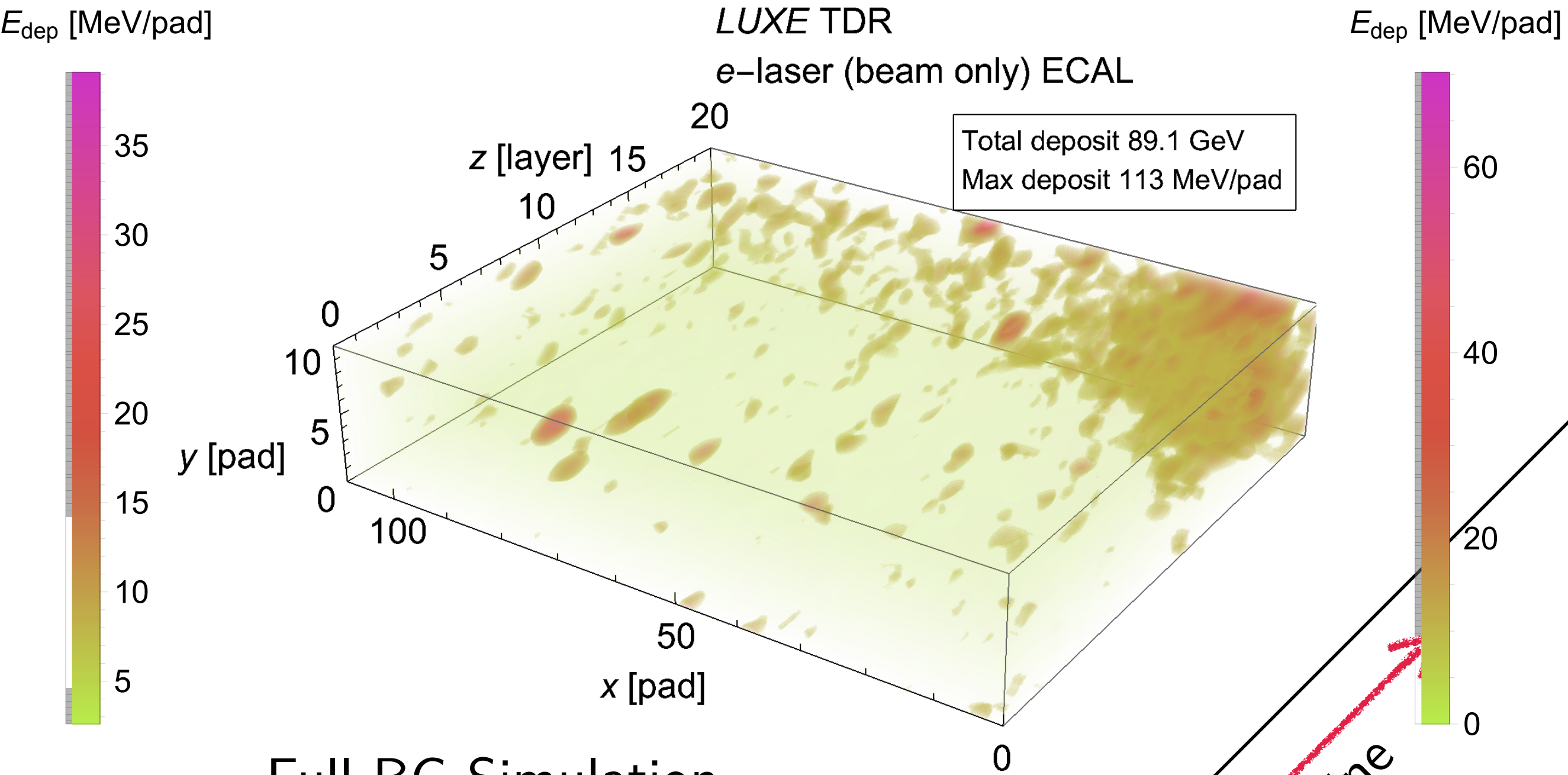
shan.huang@desy.de

e-laser

- Extra shielding reduced the background in ECAL to its half



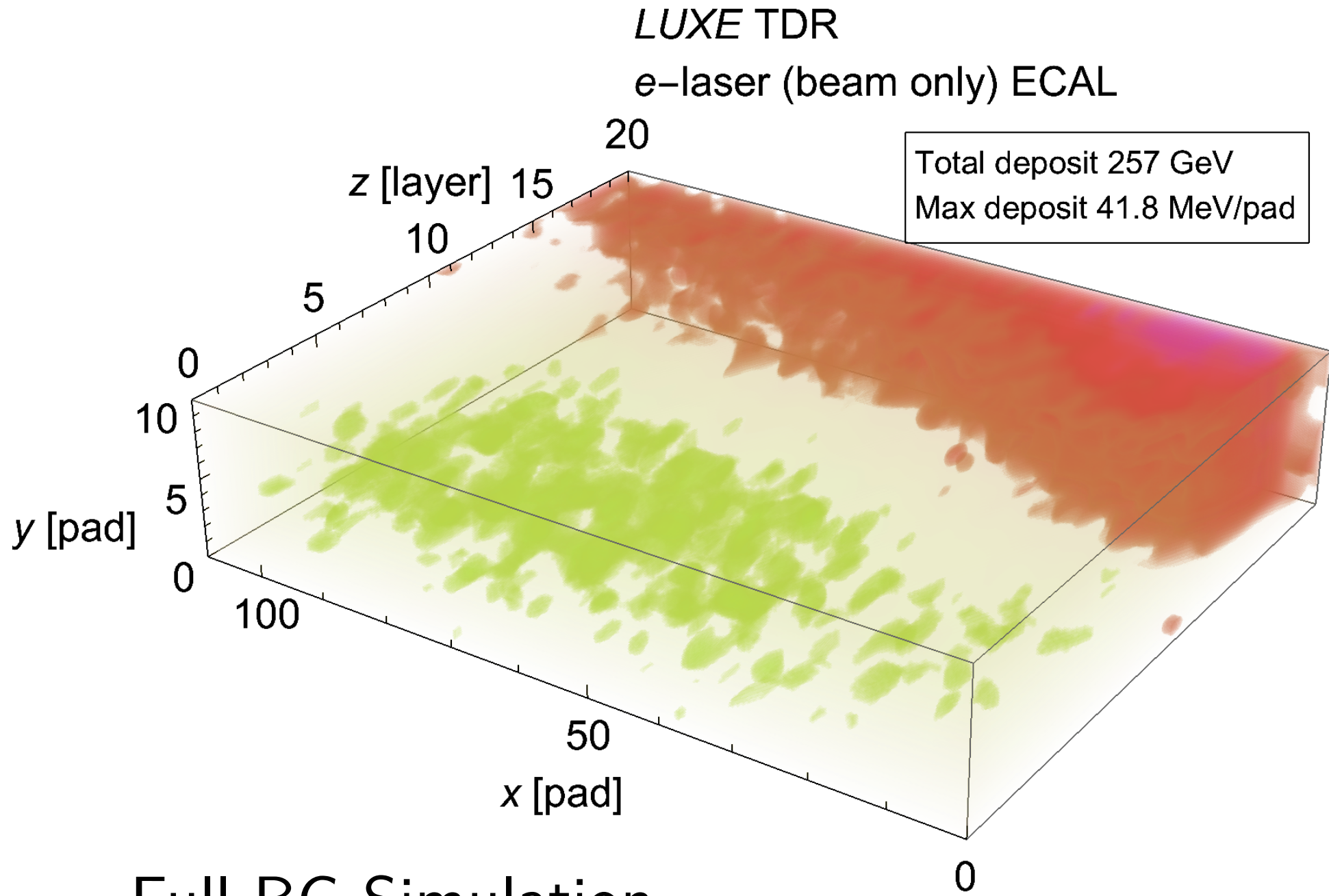
Full BG Simulation
2.13 BX



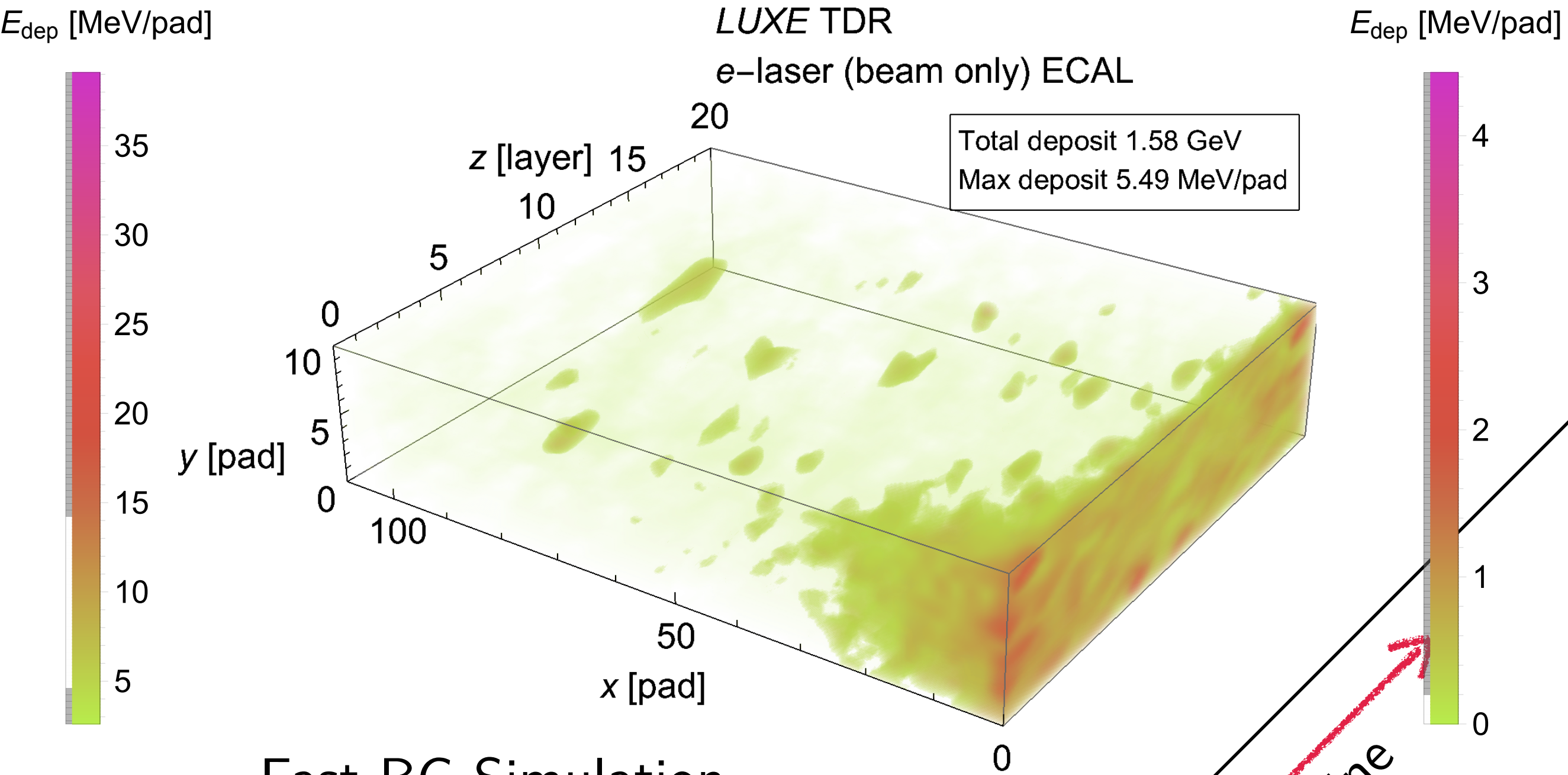
Full BG Simulation
with shielding 0.14 BX

e-laser

- ... still long way to acceptable (background level in the CDR)



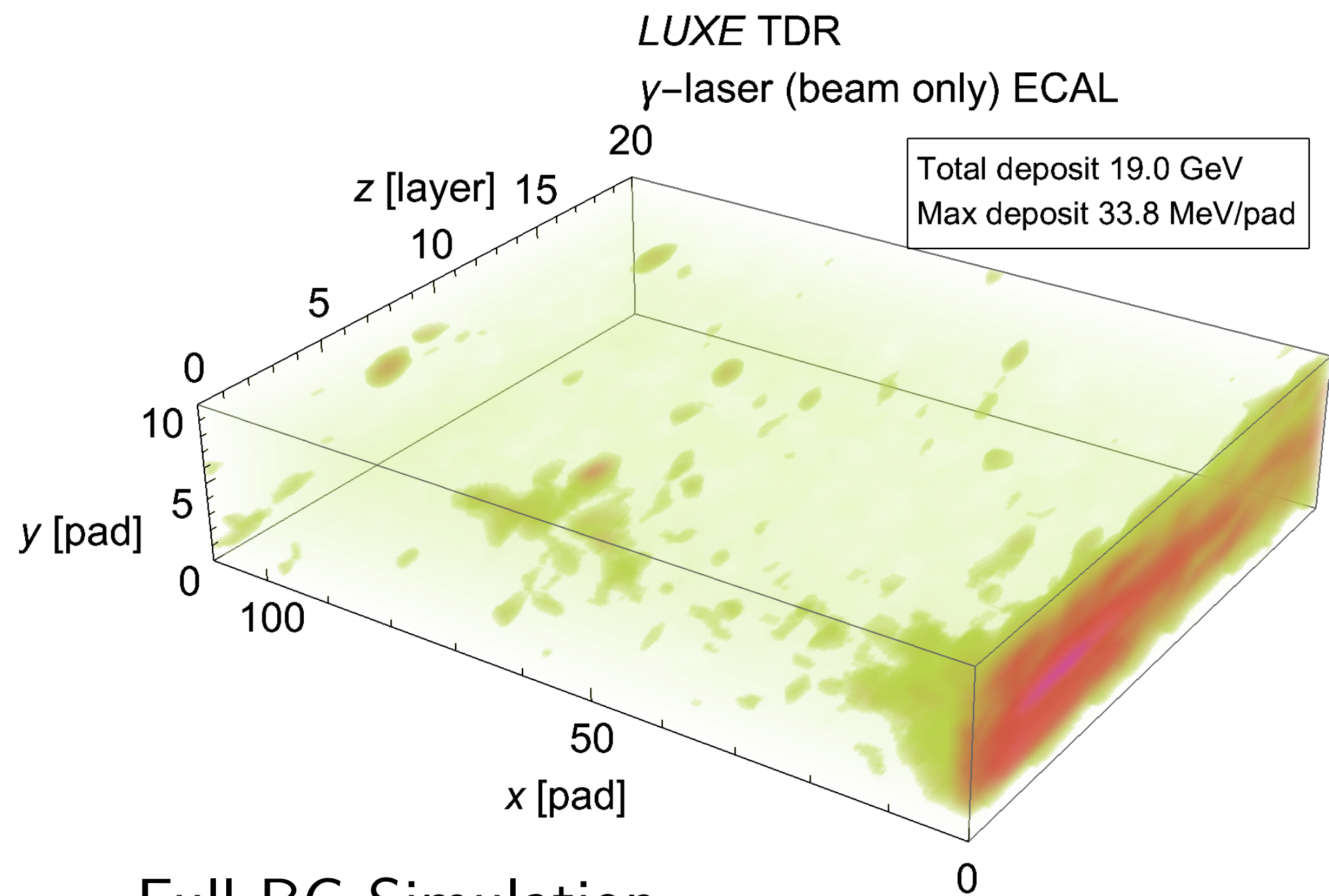
Full BG Simulation
2.13 BX



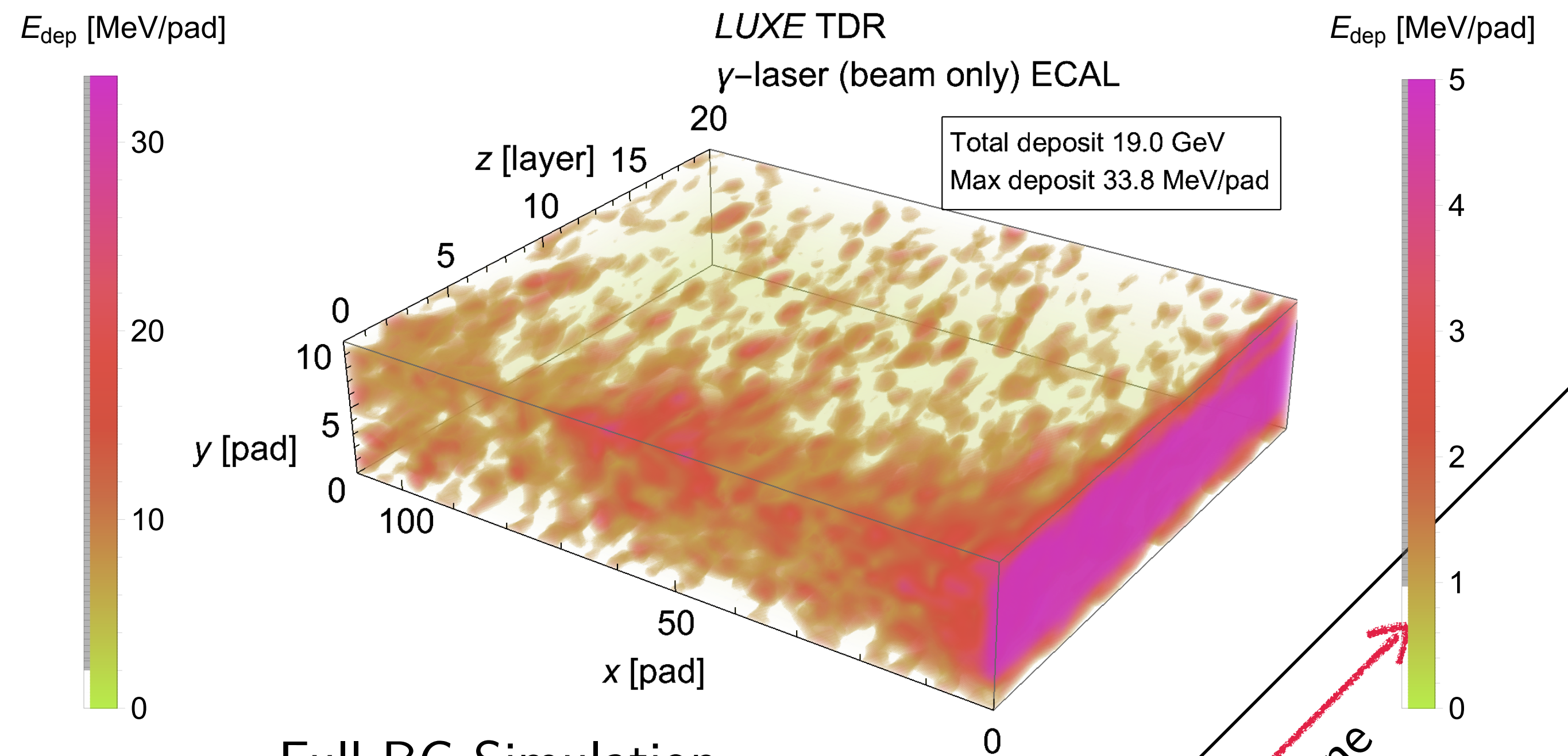
Fast BG Simulation
without dump vertices 7.45 BX

gamma-laser

- 10 times higher than e-laser background w/o dump scattering
- Higher BG near the beamline (as in the CDR); diffused BG inside (as in e-laser)

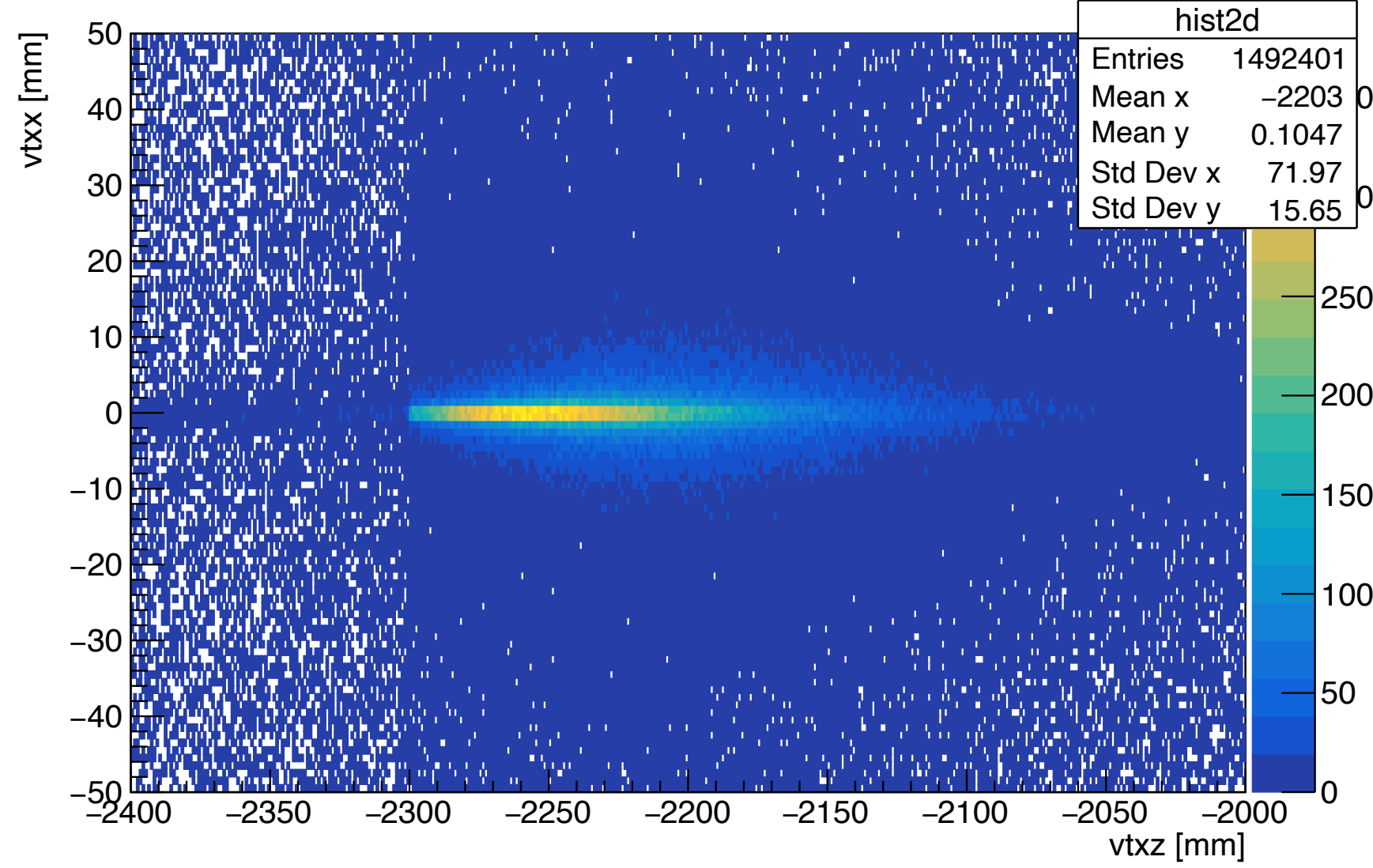


Full BG Simulation
1.26 BX



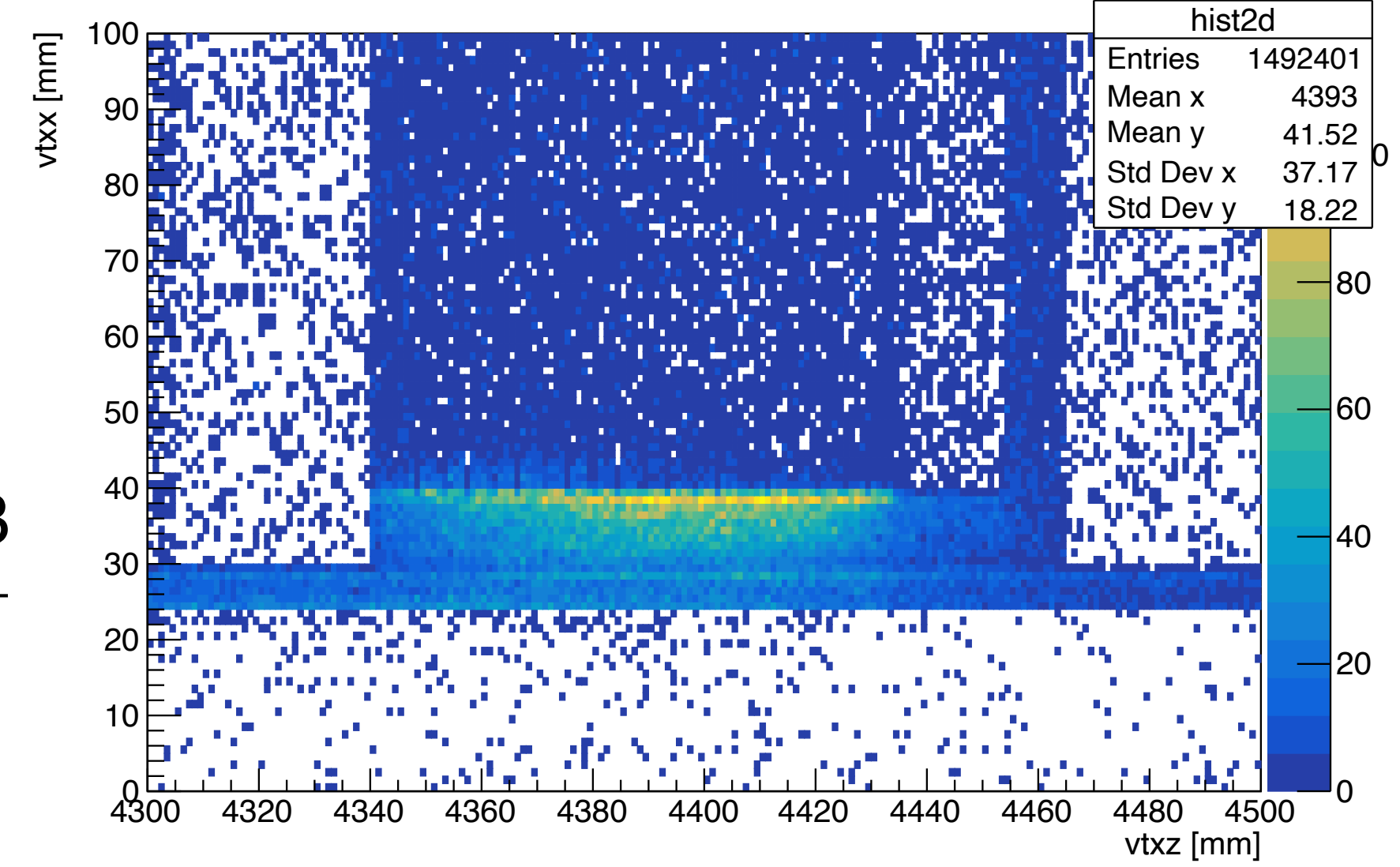
Full BG Simulation
(5 MeV rescaling) 1.26 BX

vtxx:vtxz {(detid==2000)/1.26}



Mainly neutrons

vtxx:vtxz {(detid==2000)/1.26}



Mainly photons

