FIRST LOOK AT RATES IN THE CALORIMETER

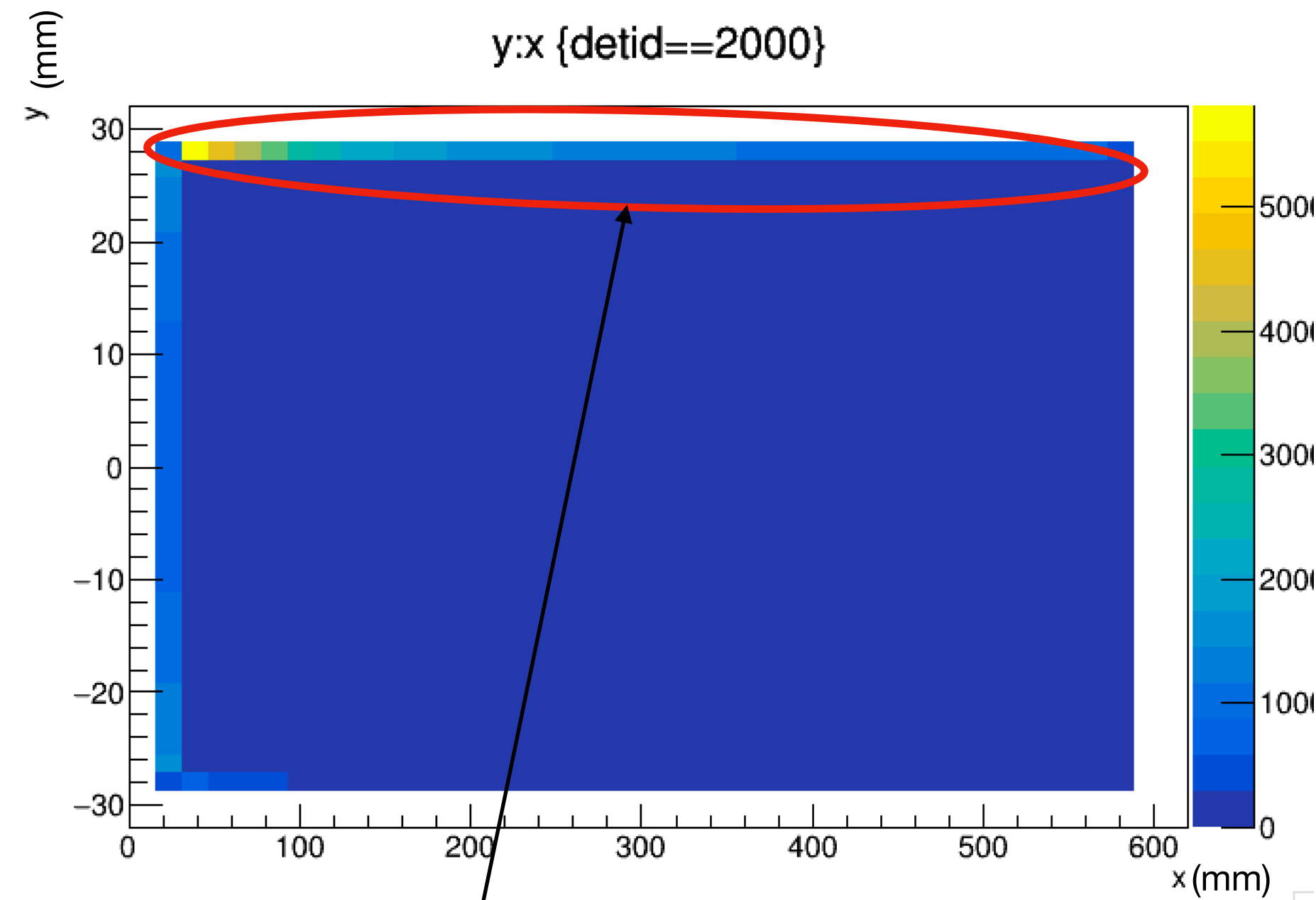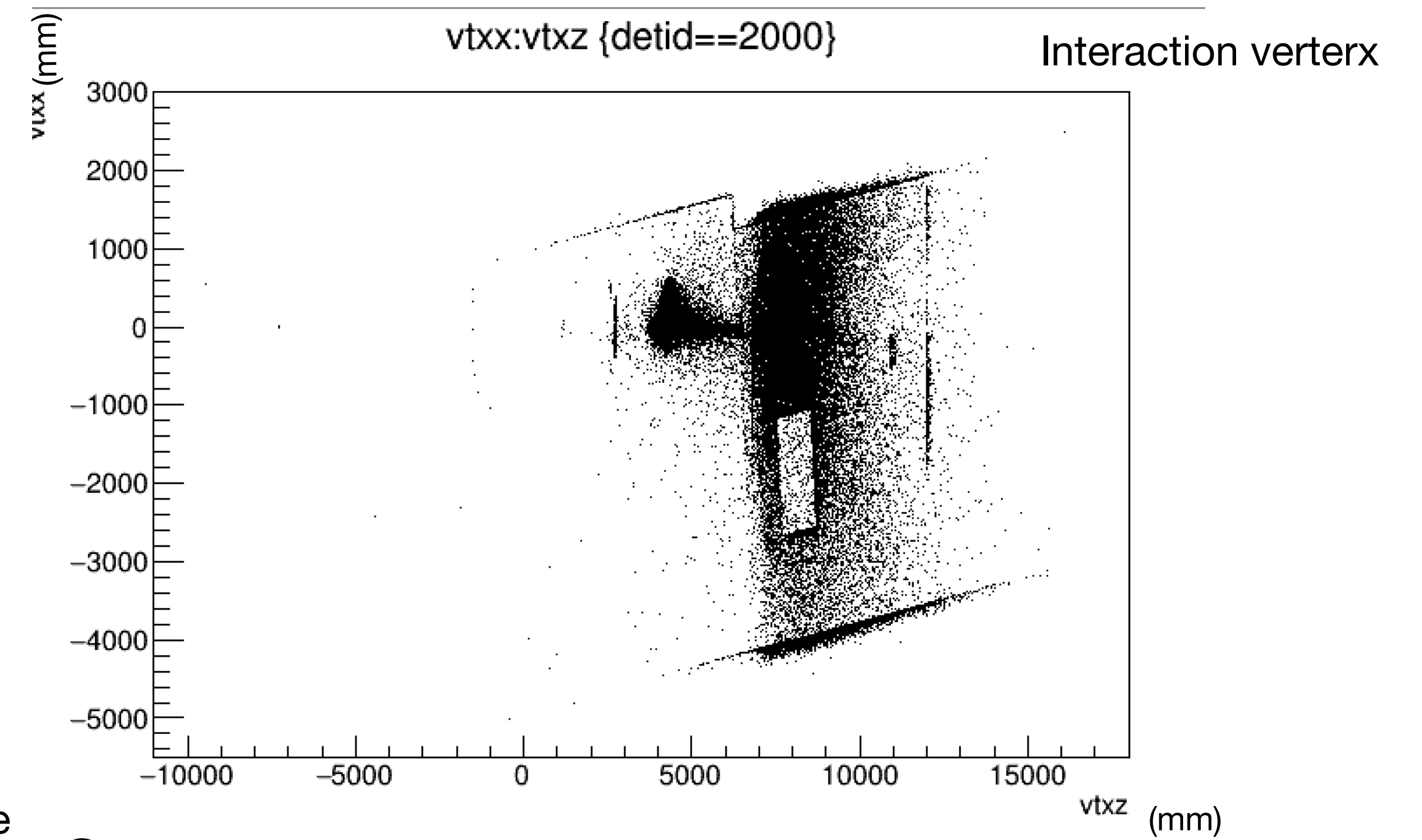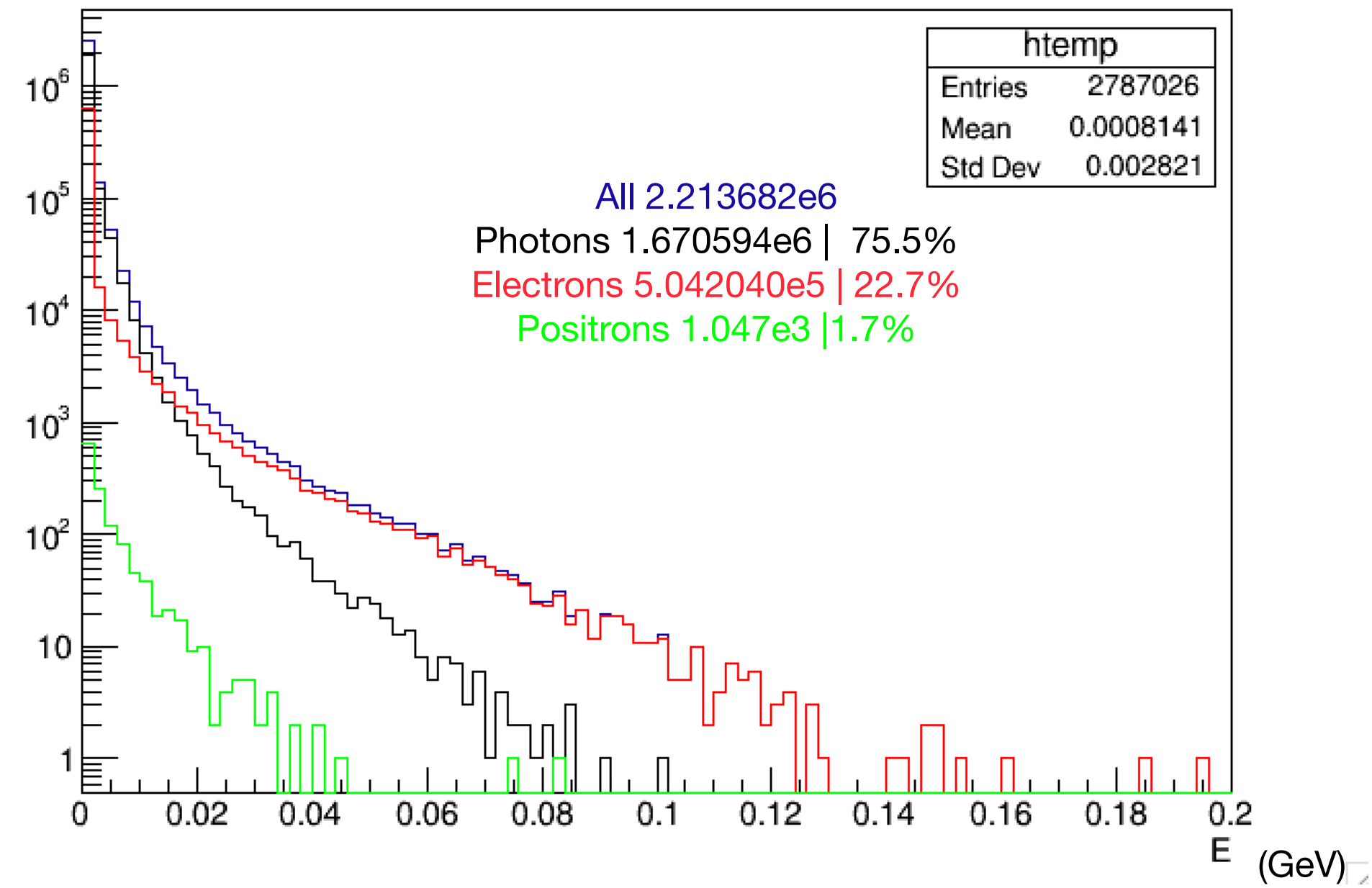LOUIS HELARY - DESY

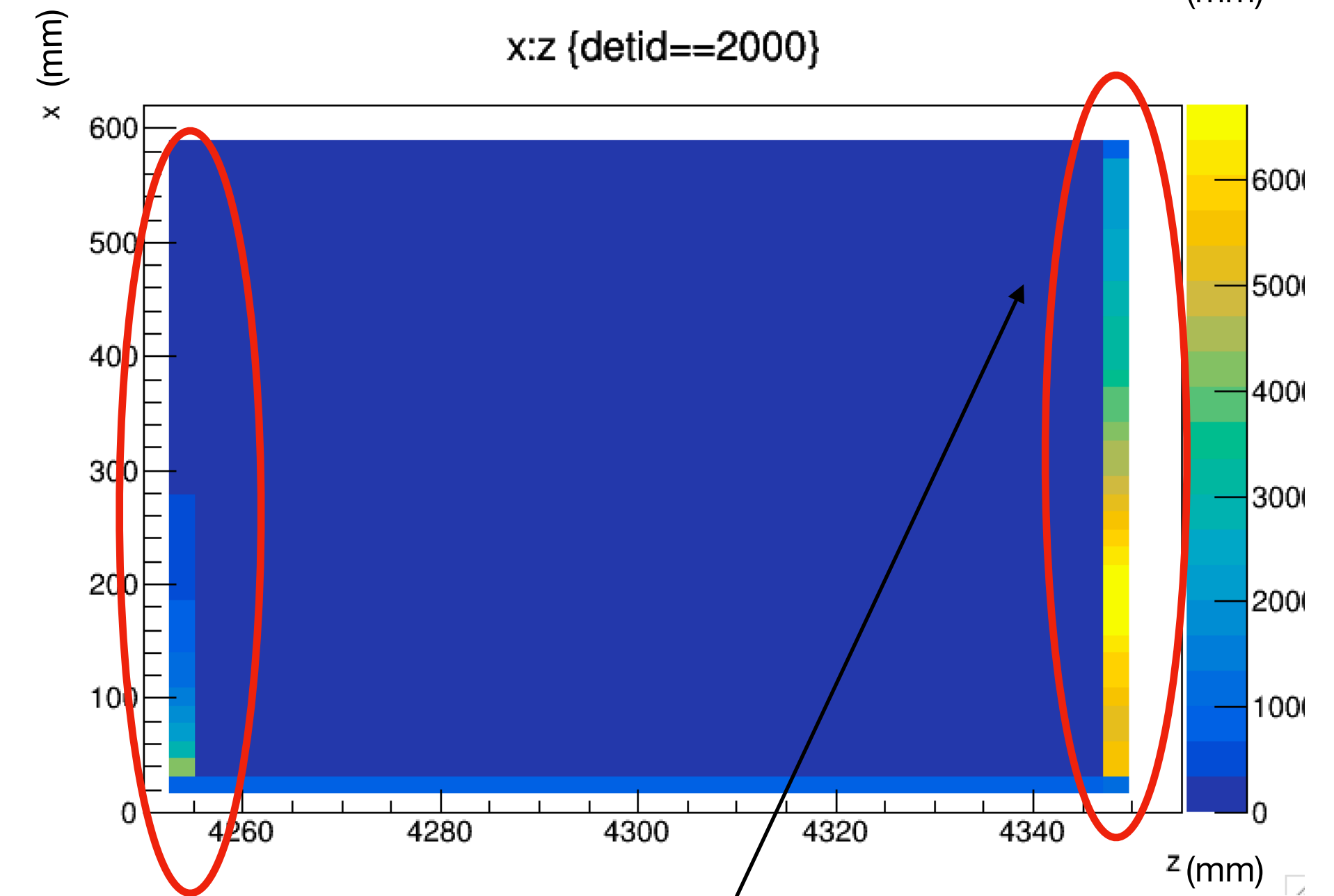10/11/2020

E {detid==2000}

htemp	
Entries	2787026
Mean	0.0008141
Std Dev	0.002821

All 2.213682e6
Photons 1.670594e6 | 75.5%
Electrons 5.042040e5 | 22.7%
Positrons 1.047e3 |1.7%

E (GeV)

vtxx:vtxz {detid==2000}

Interaction verterx

vtxx (mm)

vtxz (mm)

Tracks in the calo volume

y:x {detid==2000}

y (mm)

x (mm)

Most bkg are on the top side of calorimeter

x:z {detid==2000}

x (mm)

z (mm)

And essentially on the back side

elaser bkg: /nfs/dust/luxe/group/MCProduction/Background/elaser/29102020_lx86a1/

But also some from IP detector area
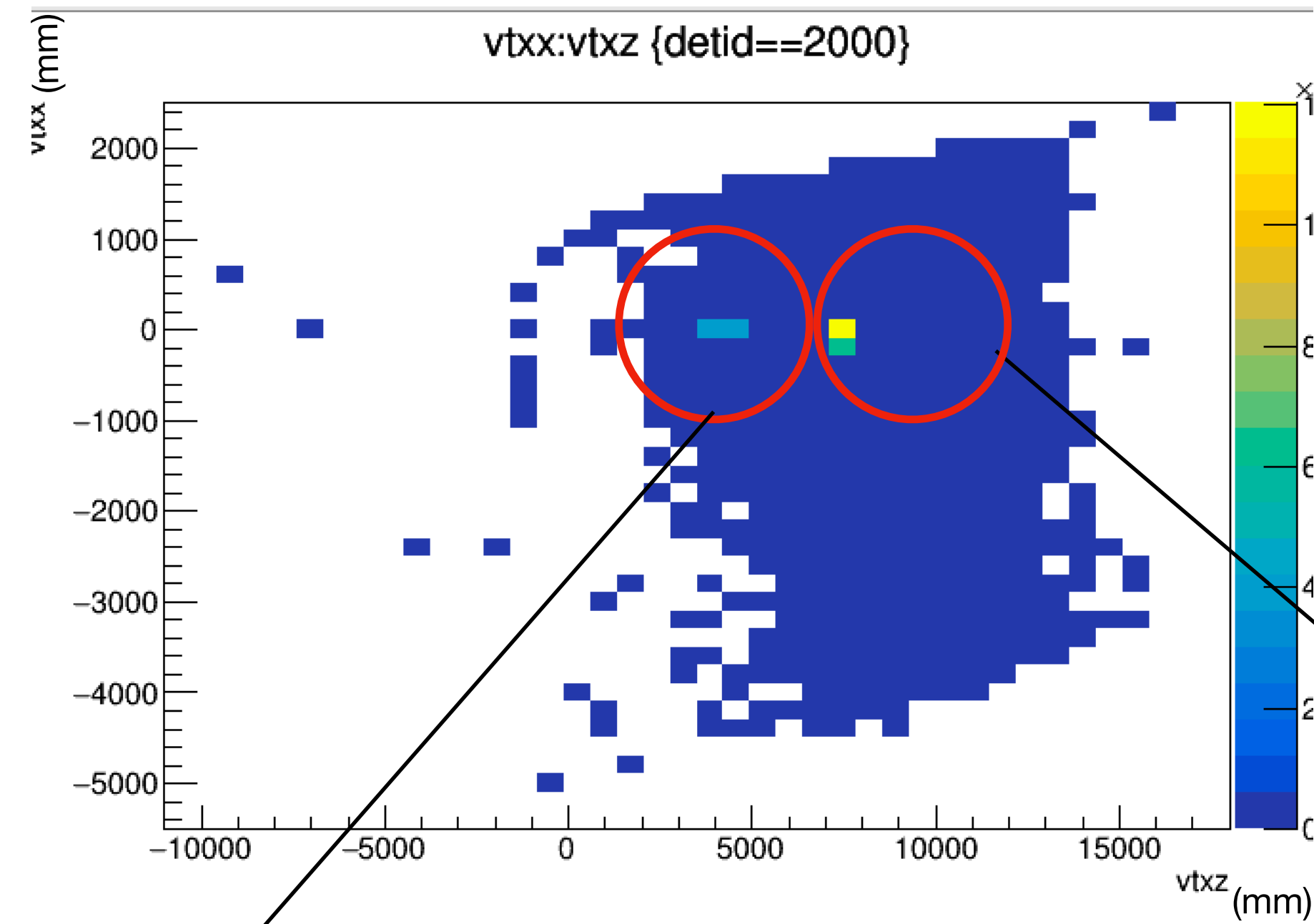
Most bkg comes from dump area

elaser phase2 signal: /nfs/dust/ilc/user/oborysov/hics_list/list_root_hics_phase2_165gev_w0_8000nm

E {(detid==2000)*weight/1000.}

htemp	
Entries	1297954
Mean	0.0004201
Std Dev	0.002231

All
Photons 87.5%
Electrons 6.5%
Positrons 6%

E (GeV)