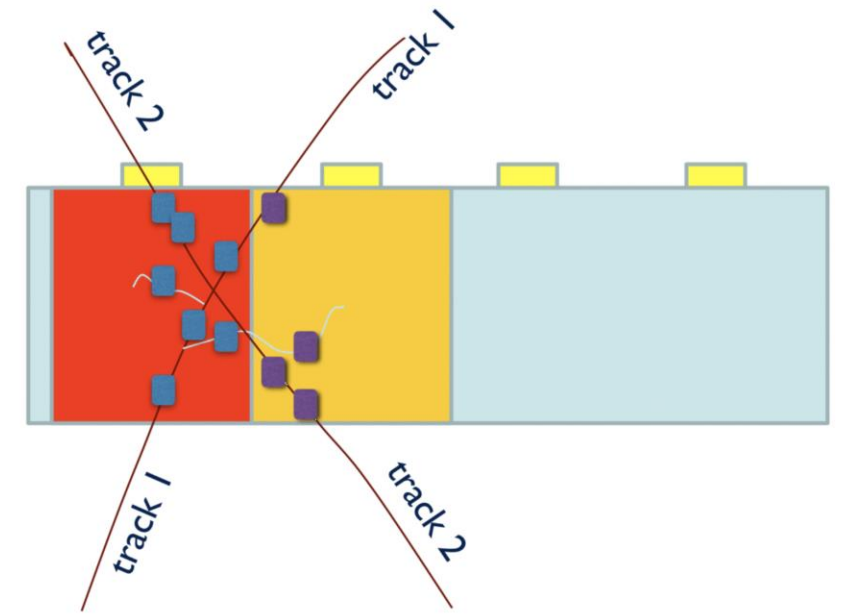
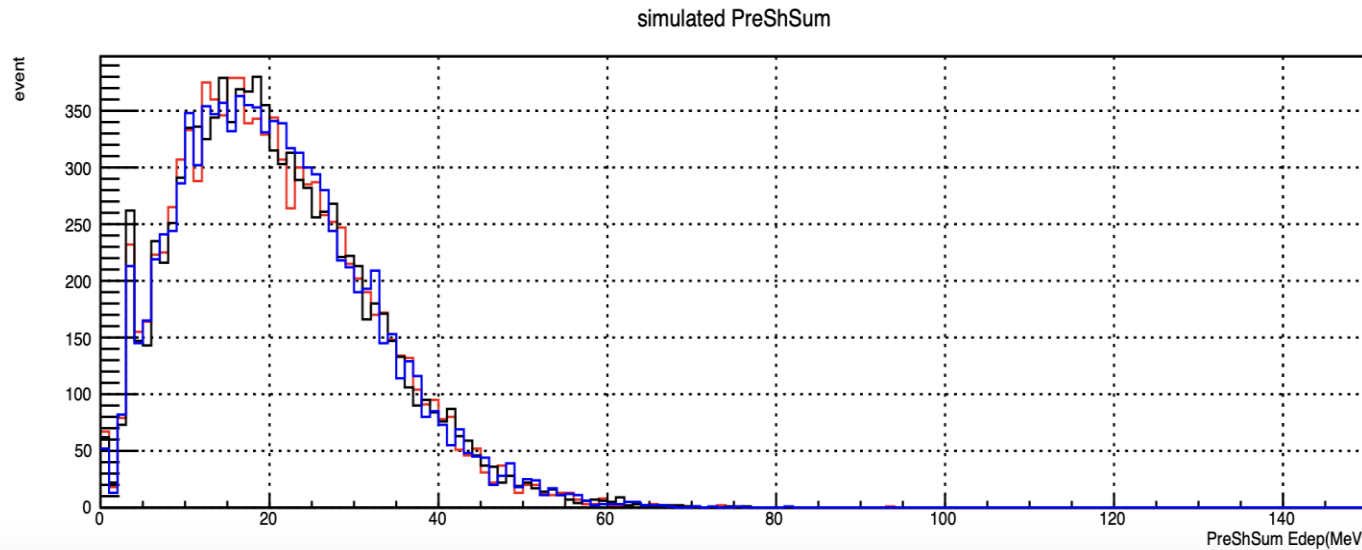
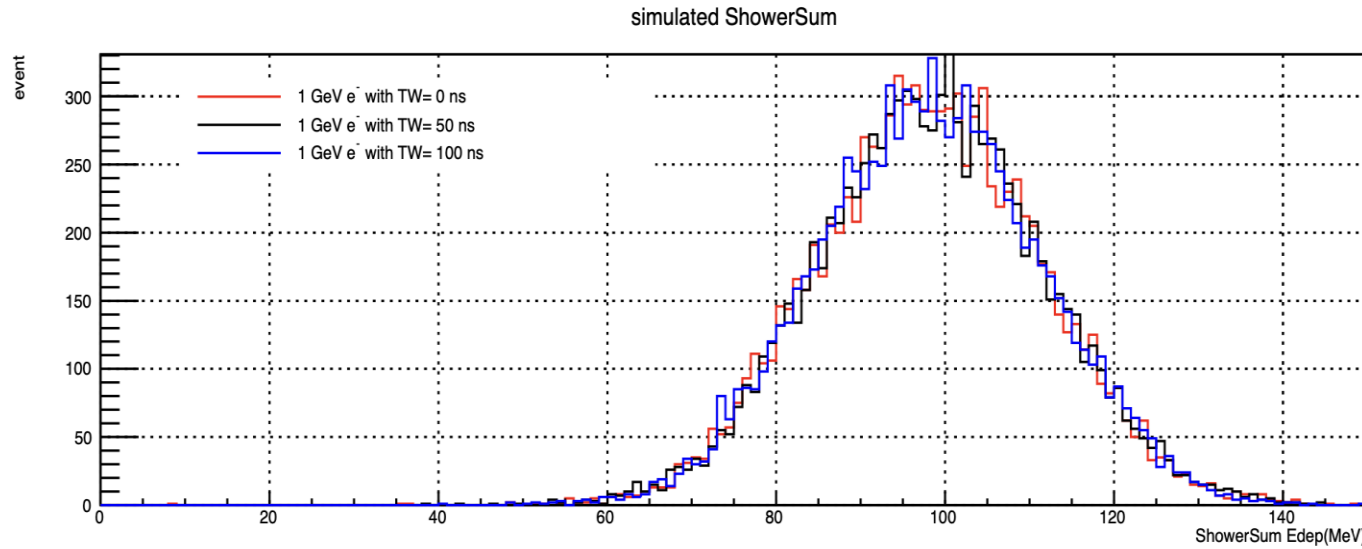
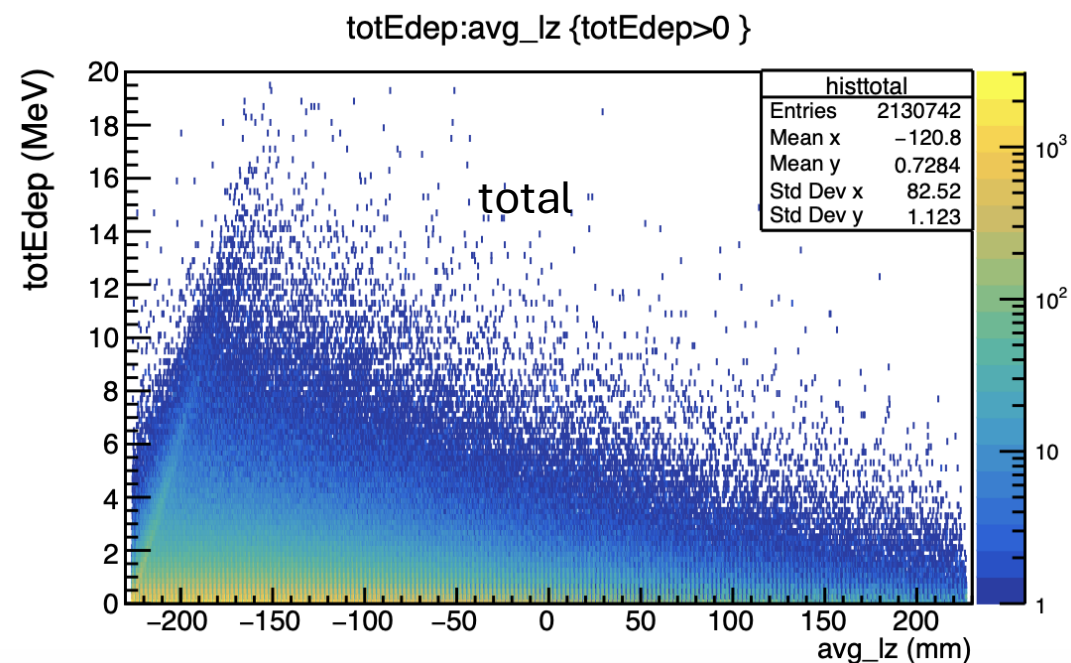
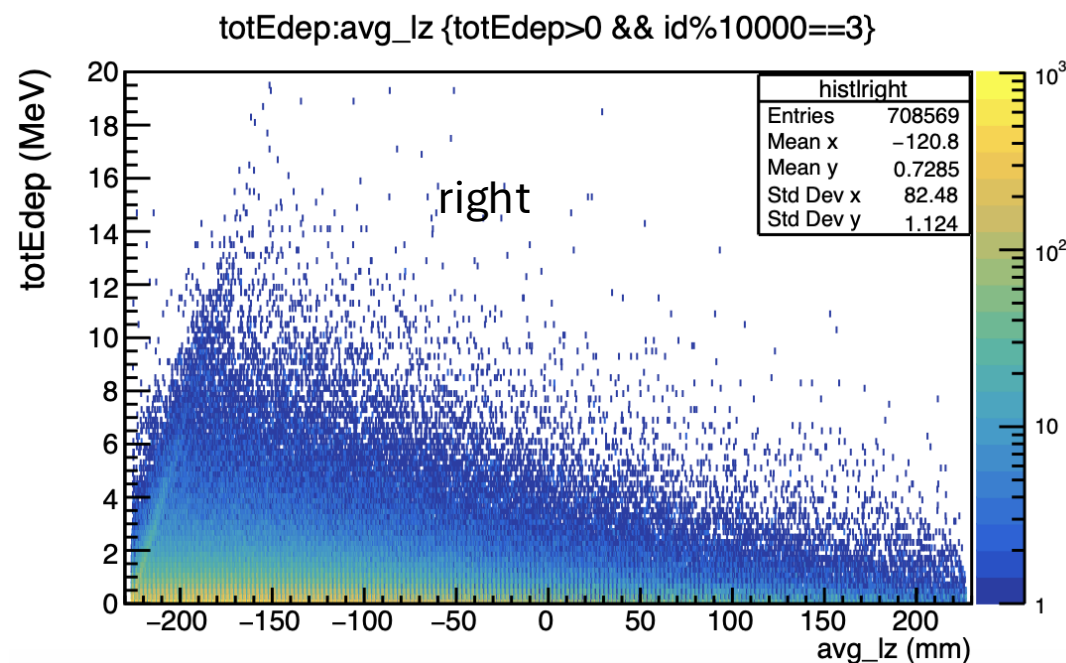
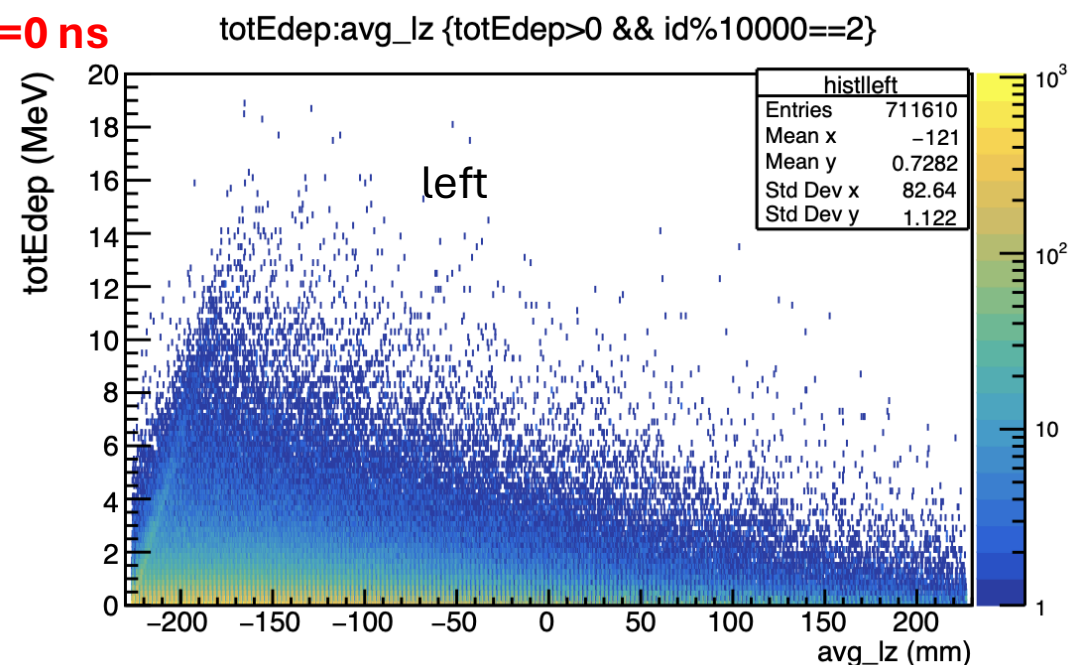
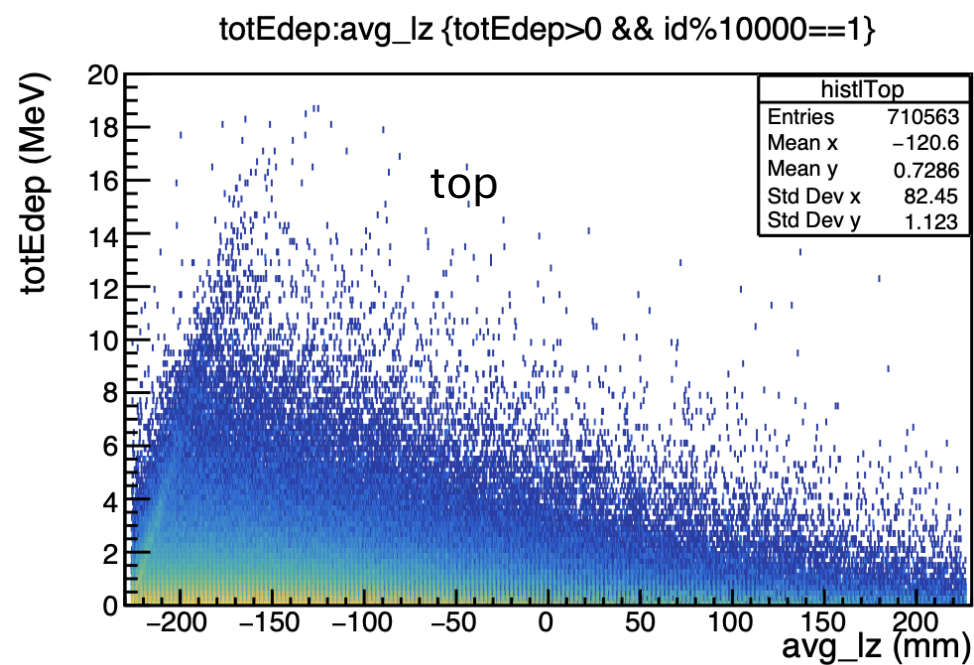


# Check TW windows



- Track 1 has 3 (blue) steps in the first red cell and one (purple) step in the second yellow cell.
- Track 1 also has two secondaries; the first one has one step in the red cell and the second one has two steps, one in each cell.
- Track 2 has 2 steps in each cell, within the TW of the previous steps. So its steps do not create new hits but add to the previous hits' steps.
- All the blue steps happens within the detector TW: they constitute one hit.
- All the purple steps happens within the detector TW: they constitute one hit.
- In total, we have two hits. Notice that if the second track was out of the TW, it would generate two additional hits, with two steps each in each cell.

**TW=0 ns**



**194 layers Lead:0.05 cm Scint:0.15cm Layer thickness: Lead+scint+gap+paint=0.234 cm**

## Root Tree Draw Commands

```
[tianye@ifarm2401 script]$ root -l out.root
```

```
root [0]
```

```
Attaching file out.root as _file0...
```

```
(TFile *) 0x3a92140
```

```
root [1] solid_ec->Draw("totEdep:avg_lz>>hist(200,-  
234,234,2000,0,20)","totEdep>0 && id%10000 ==1","COLZ")
```

```
Info in <TCanvas::MakeDefCanvas>: created default TCanvas with name c1  
(long long) 710563
```

totEdep:avg\_z {totEdep>0}

