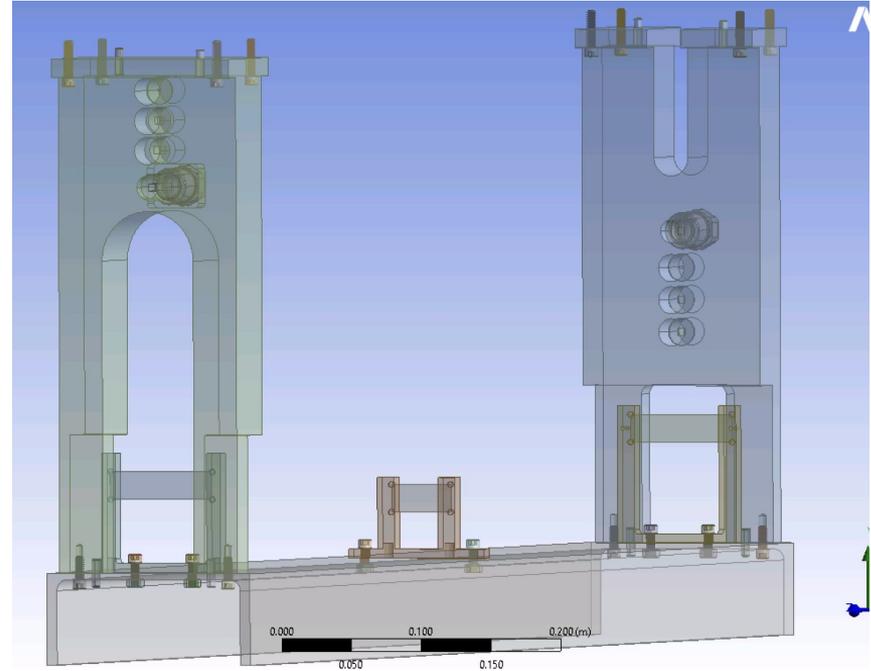


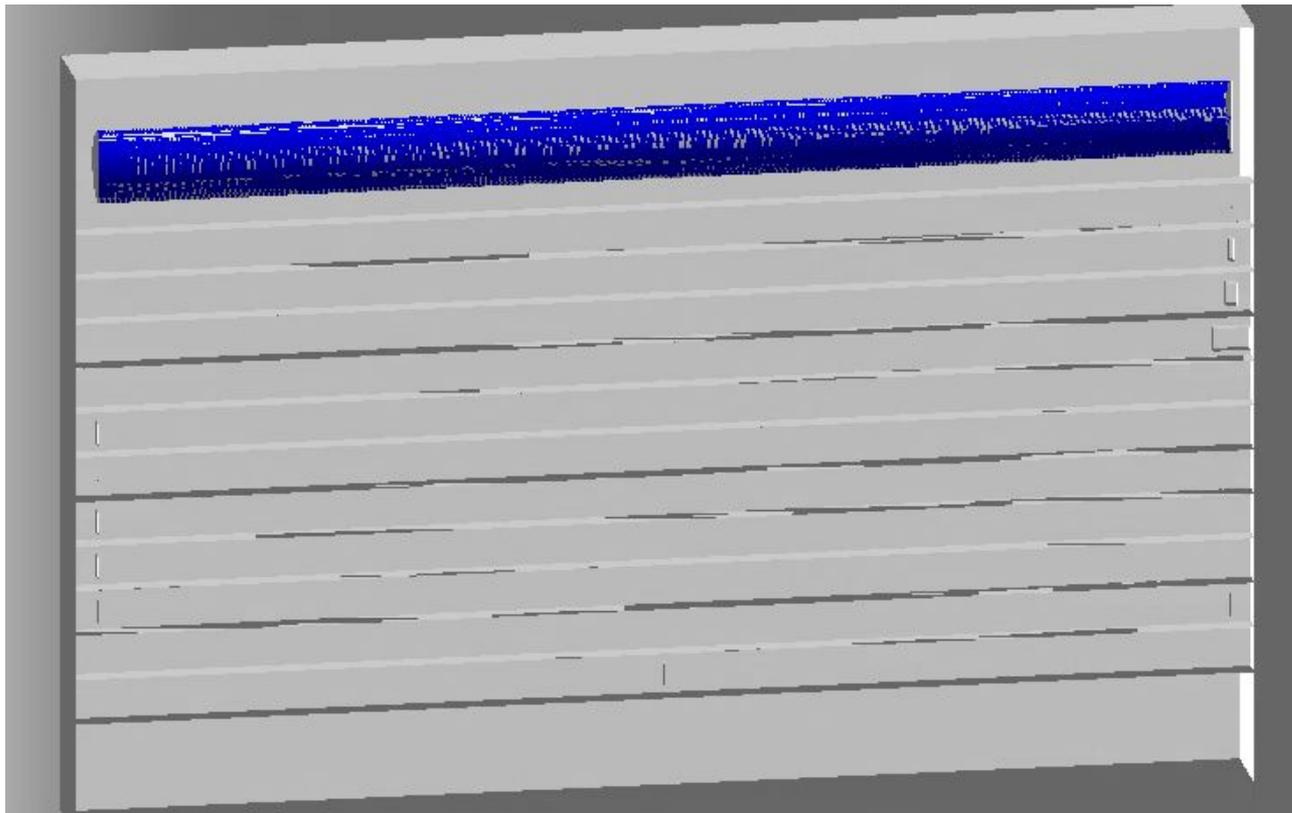
Remoll solid targets

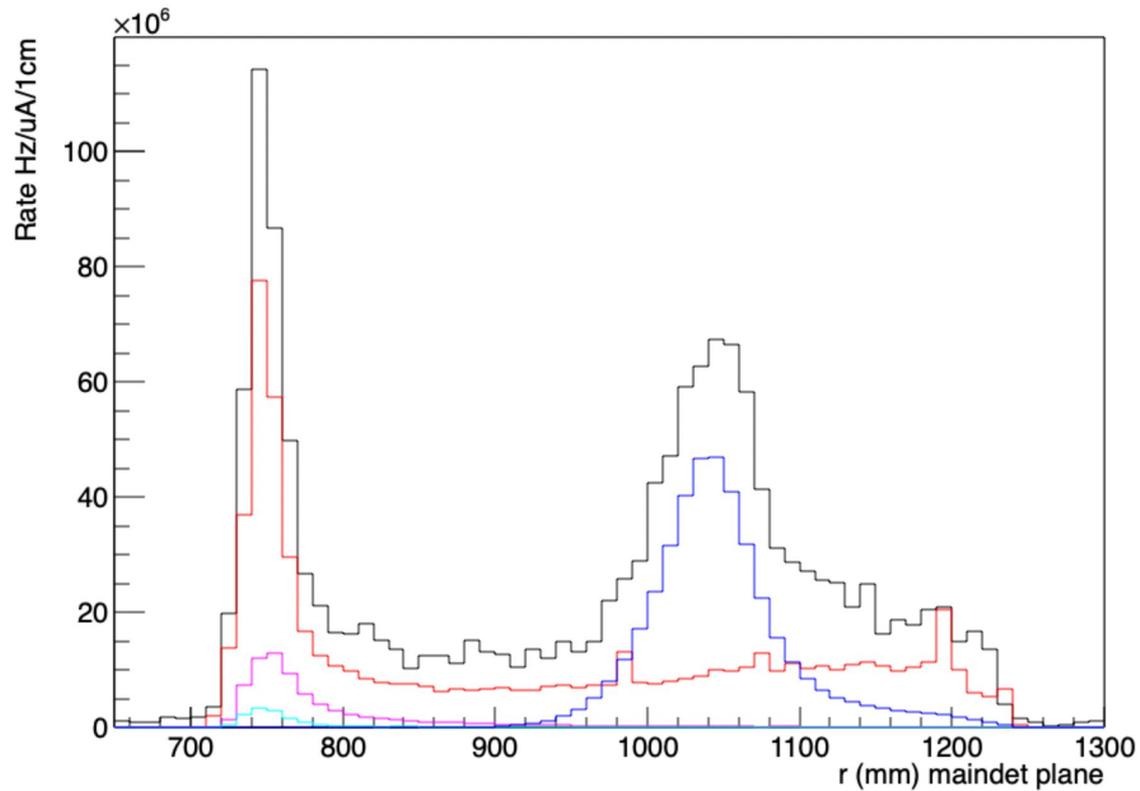
James Shirk

Other targets

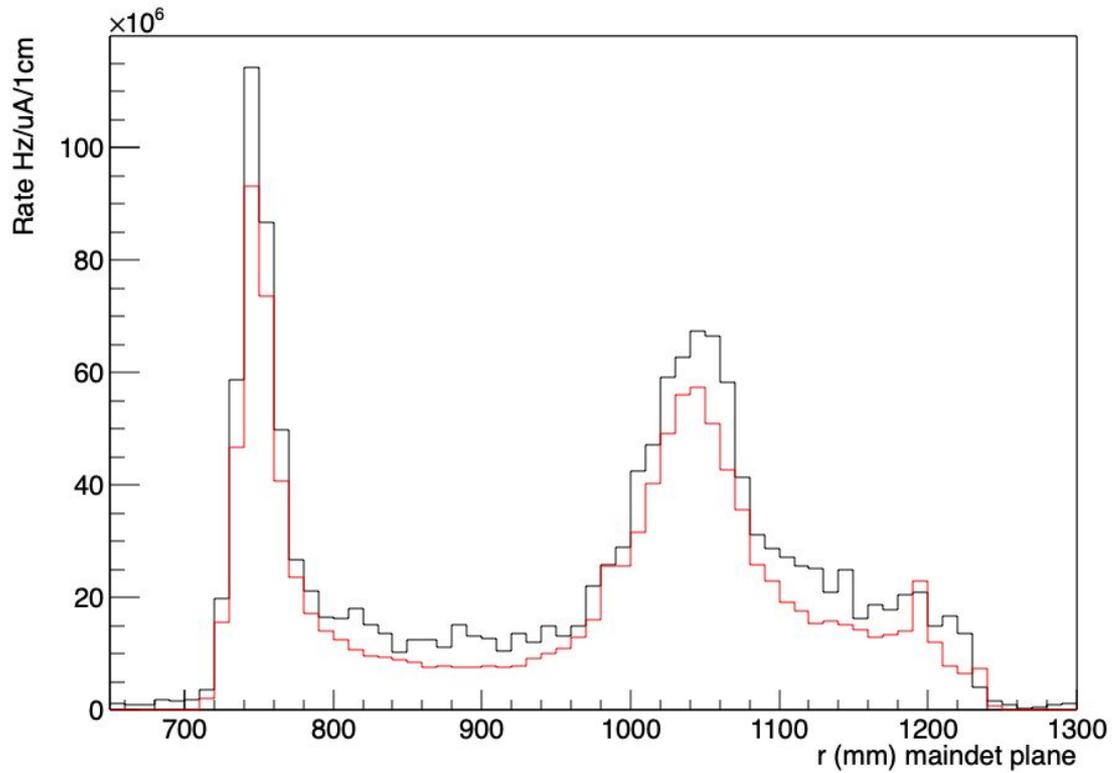
1. Downstream 2 mm hole
2. Downstream 27Al 6 mm thick
3. Downstream 27Al 12.5 mm thick
4. Downstream 12C 40 mm thick
5. Upstream 12C 2 mm thick
6. Upstream 2 mm hole
7. Upstream 27Al 1 mm thick
8. Upstream 27Al 2 mm thick
9. empty (no target in beam)
10. Optics 1: Upstream 12C foil, 0.254 mm thick
11. Optics 2: Downstream 12C foil, 0.254 mm thick
12. Optics 3: Middle 12C foil, 0.254 mm thick





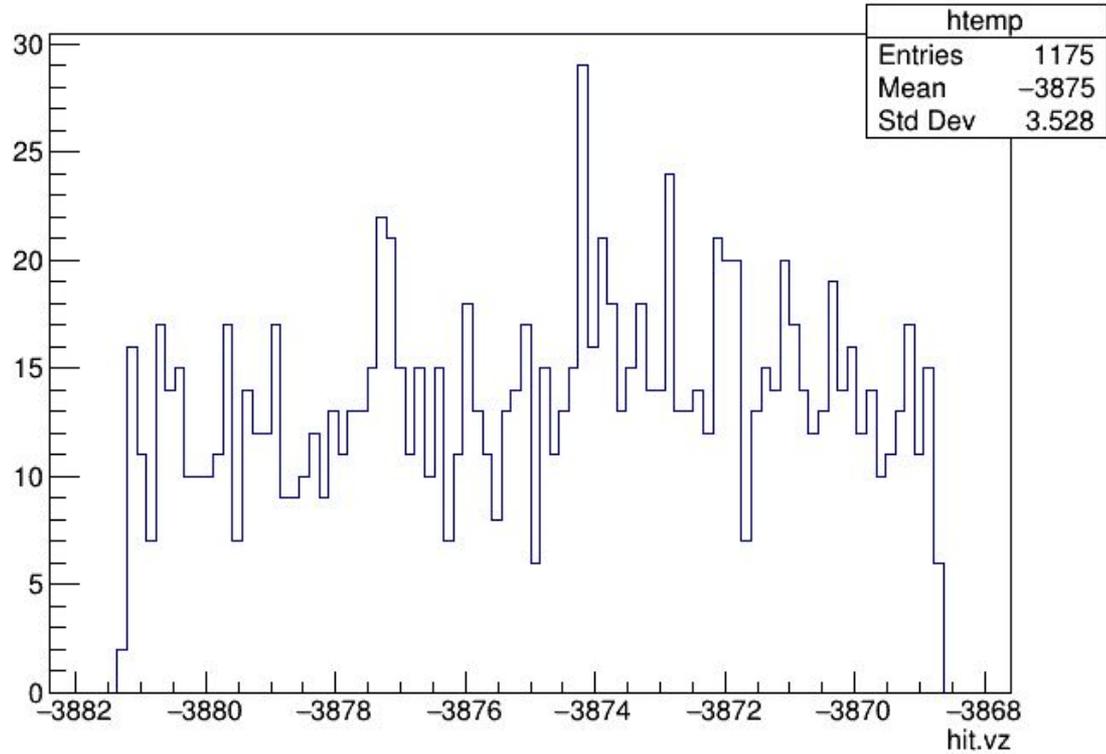


Black: beam
Red: elasticAI
Magenta: inelasticAI
Cyan: qelasticAI
Blue: møller

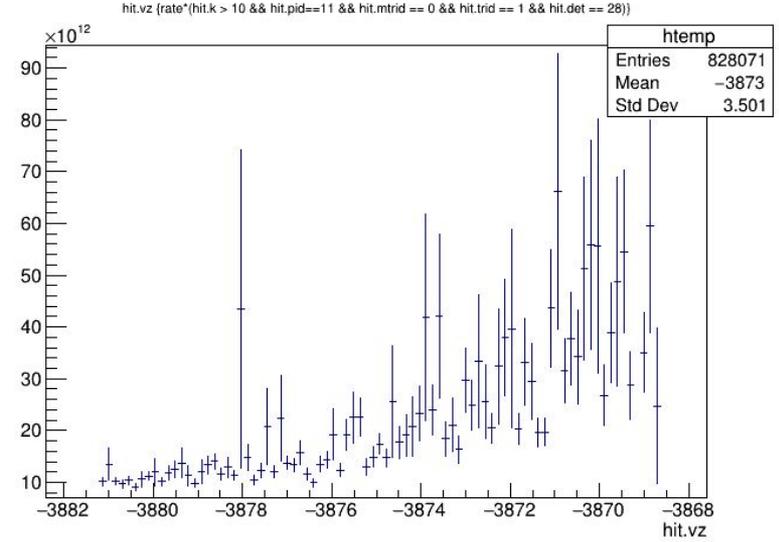
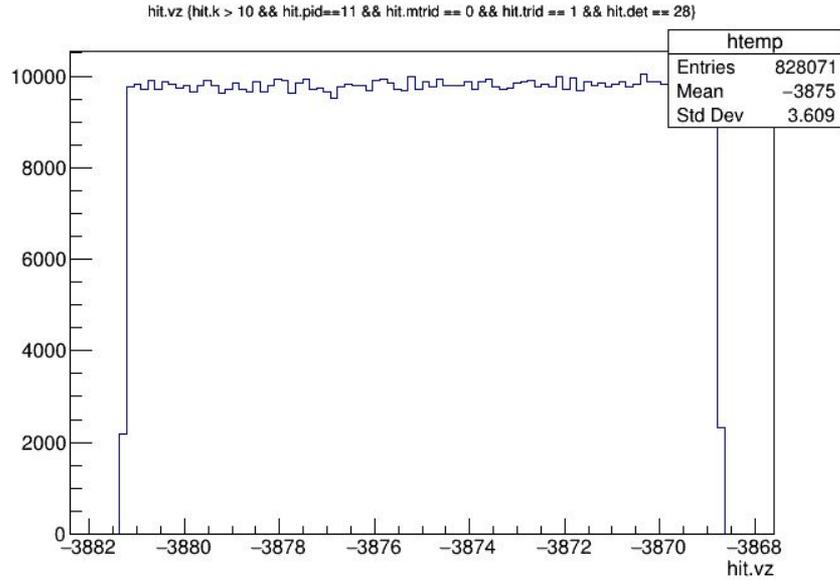


Beam vz

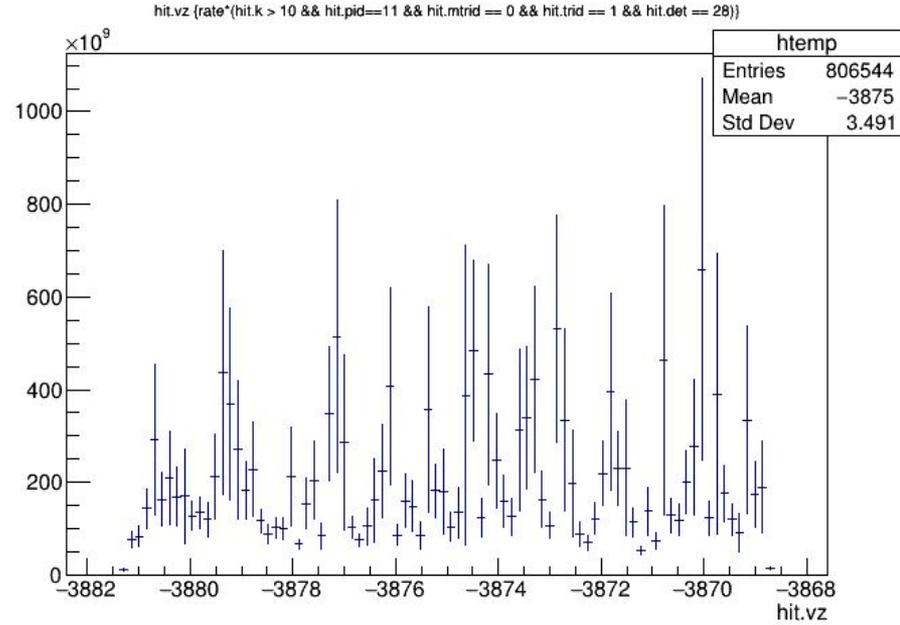
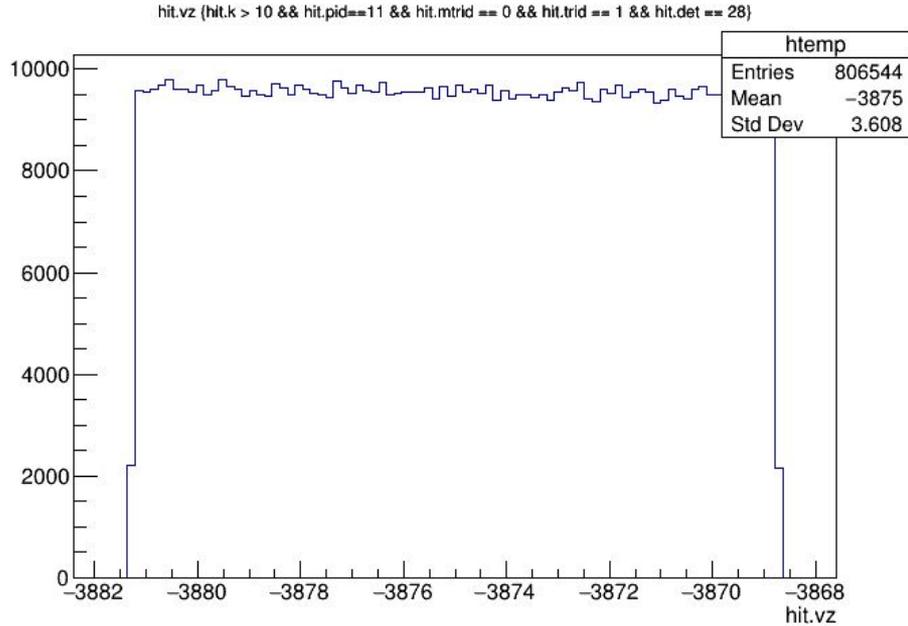
hit.vz ((hit.k > 10 && hit.pd==11 && hit.det == 28 && hit.r > 500 && hit.r < 1350 && hit.vz < -3850 && hit.vz > -5000))



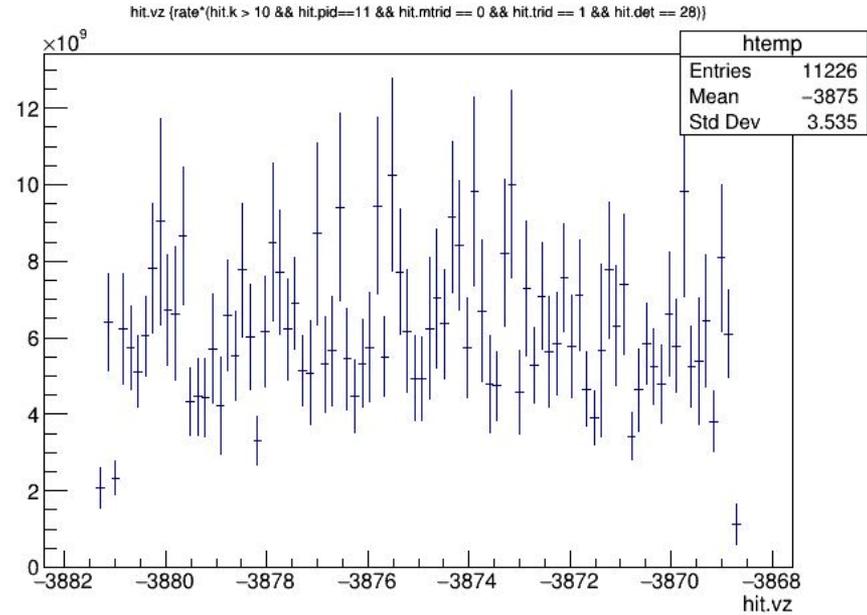
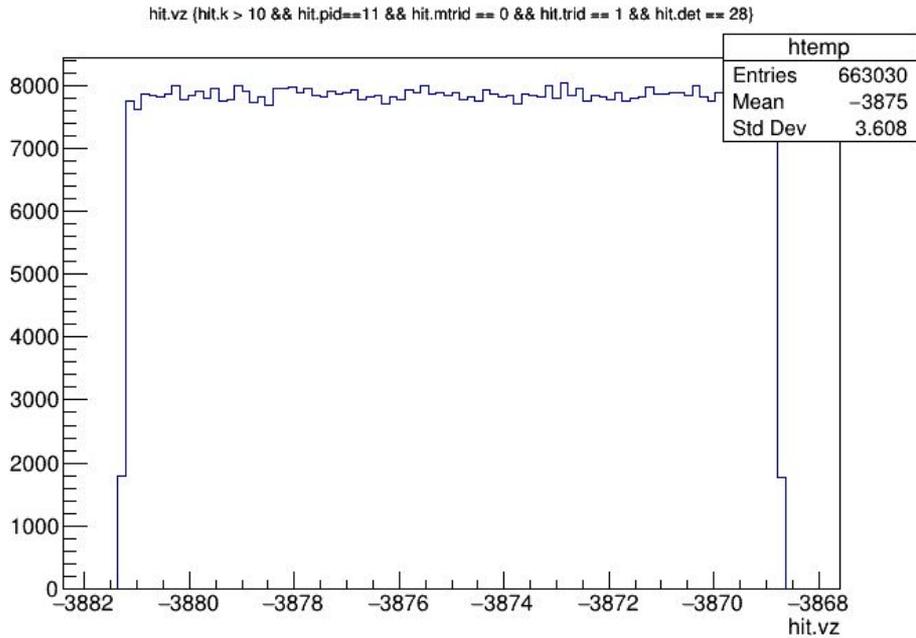
elasticAl vz



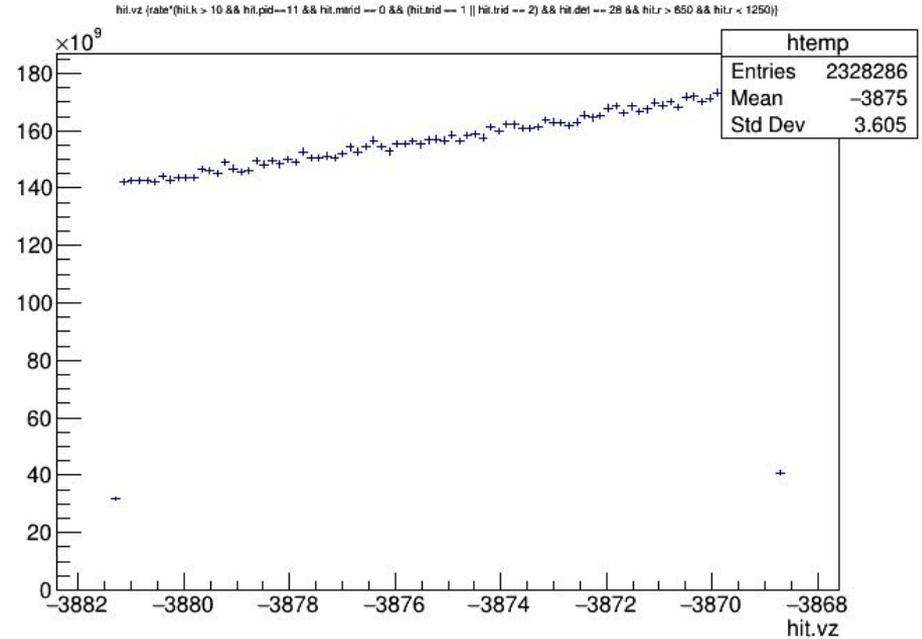
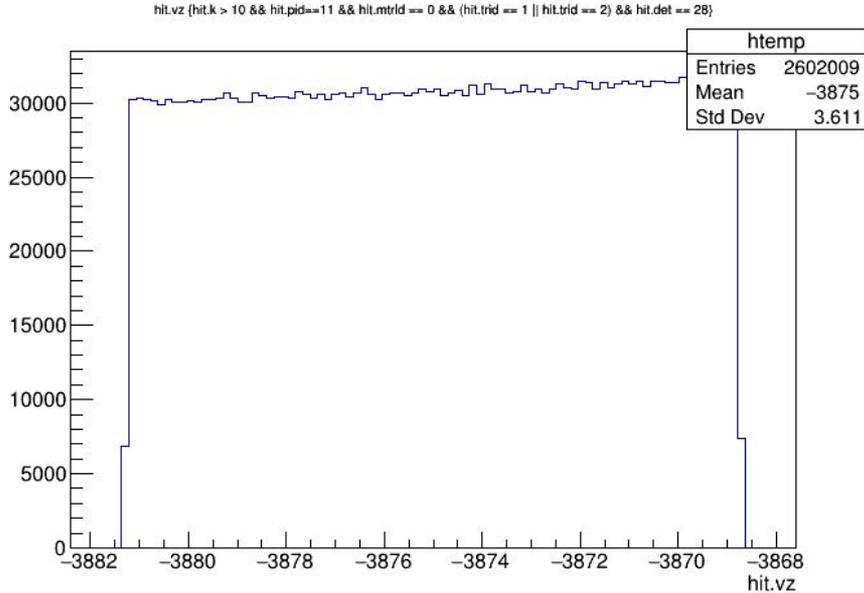
InelasticAl vz



qelasticAl vz



Moller vz



The rate corrected vz distribution has roughly the same distributions as the moller generated electrons for the LH2 target

Running with targets

Targets are in macros/targets/X.mac

```
f.write("/remoll/beamene 11 GeV\n")  
f.write("/remoll/beamcurr 65 microampere\n")  
f.write("/control/execute macros/target/A12_5mmDS.mac\n")  
f.write("/remoll/SD/disable_all\n")
```

Add the 3rd line to your submit script to add the target in