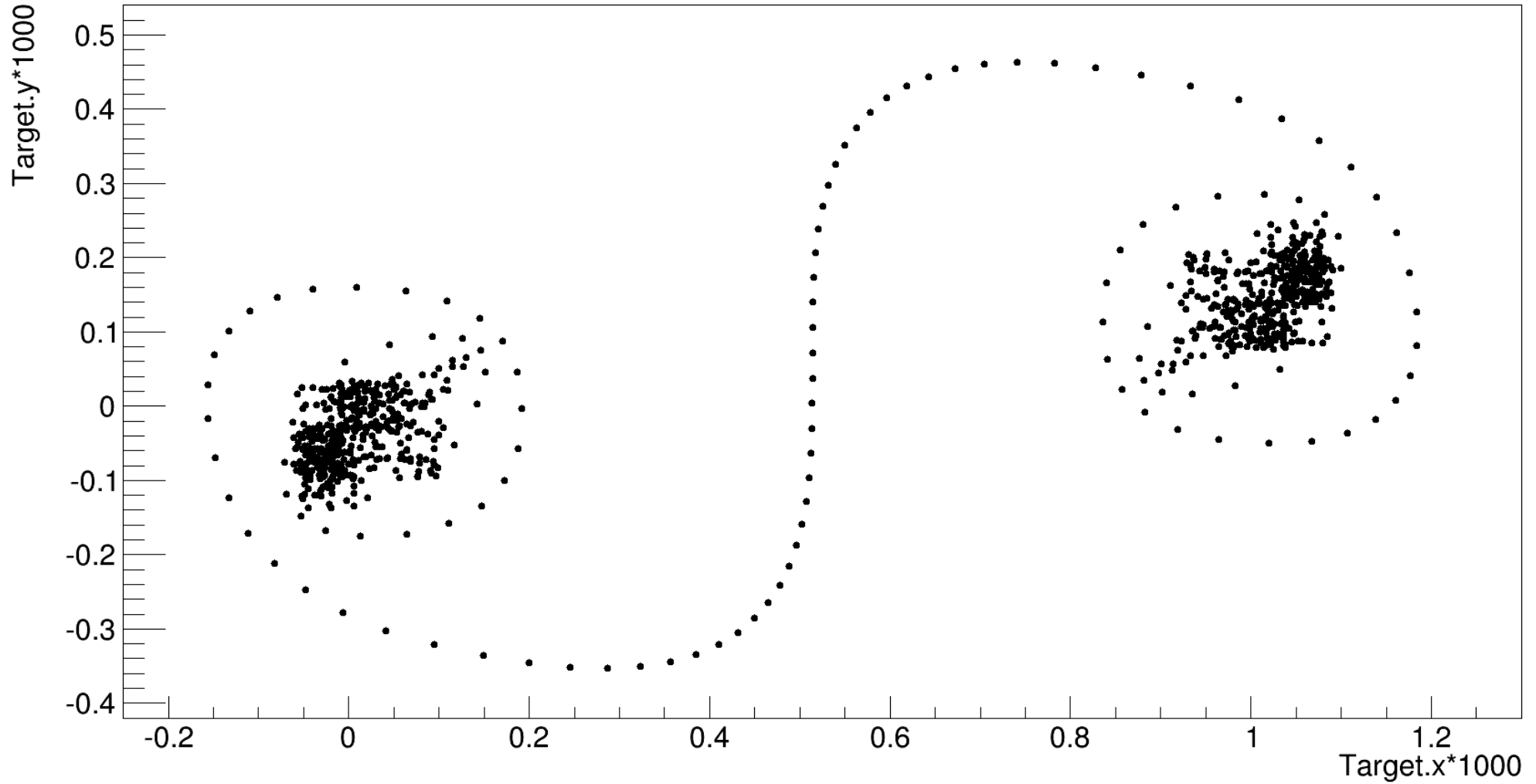


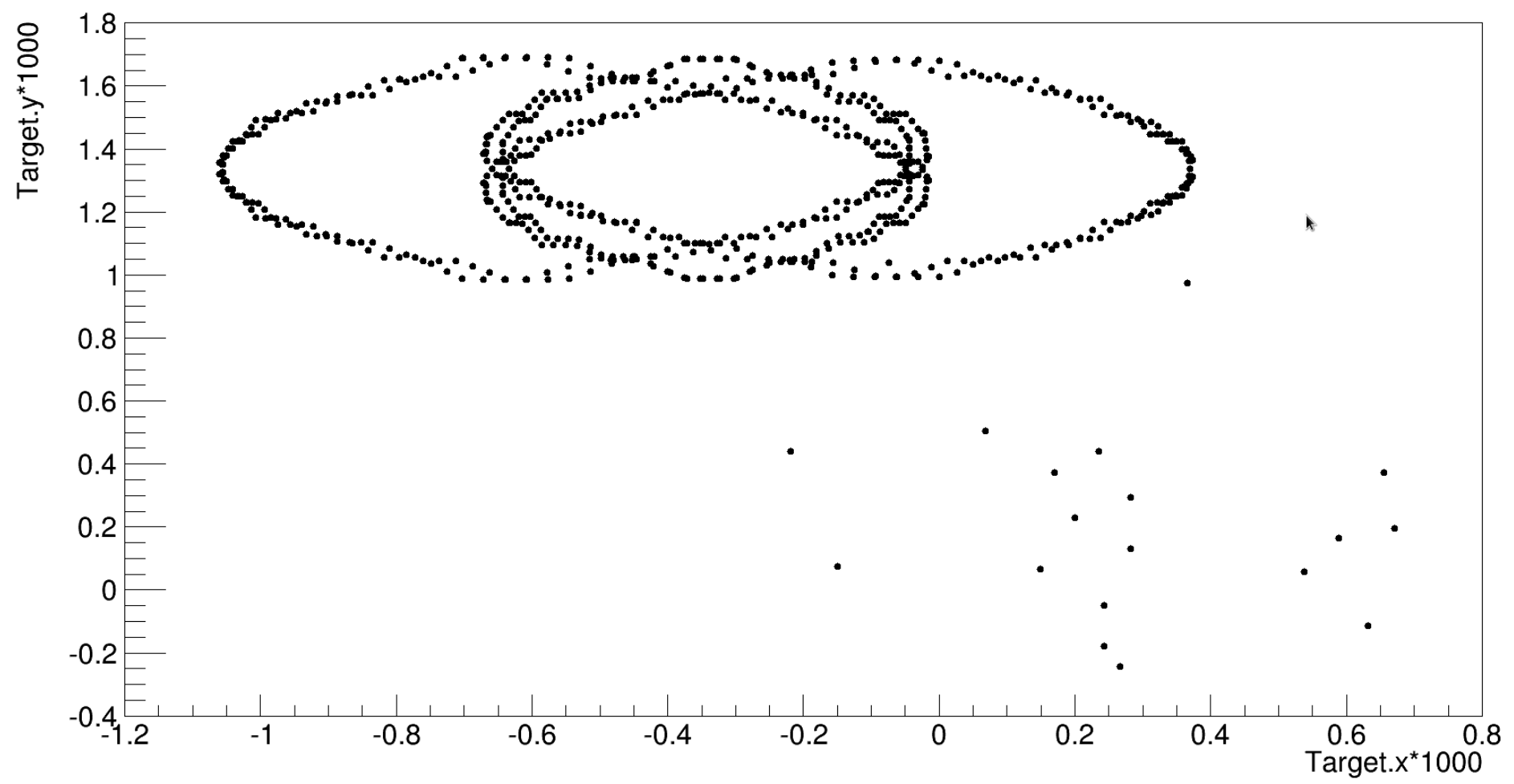
Raster Simulation

- Very Simple Simulation to study the effect of phase and frequency differences of the raster on the beam position on target.
- Step each electron trough steps in Z of the beam line.
- Generate a horizontal and vertical velocity for the electron at each raster
 - The rasters are driven by a triangle wave function
 - Strength of velocity of the electron after leaving the raster field “i” (0-1) = $\text{asin}(\sin(f*t*A_i + f*t*B_i + \text{phase}_i)) * (2/\pi)$
- By adjusting A,B and the phase, what **wonders** can be created?!?!
- Quick Note! I have updated the Ar DB with the new BPM constants

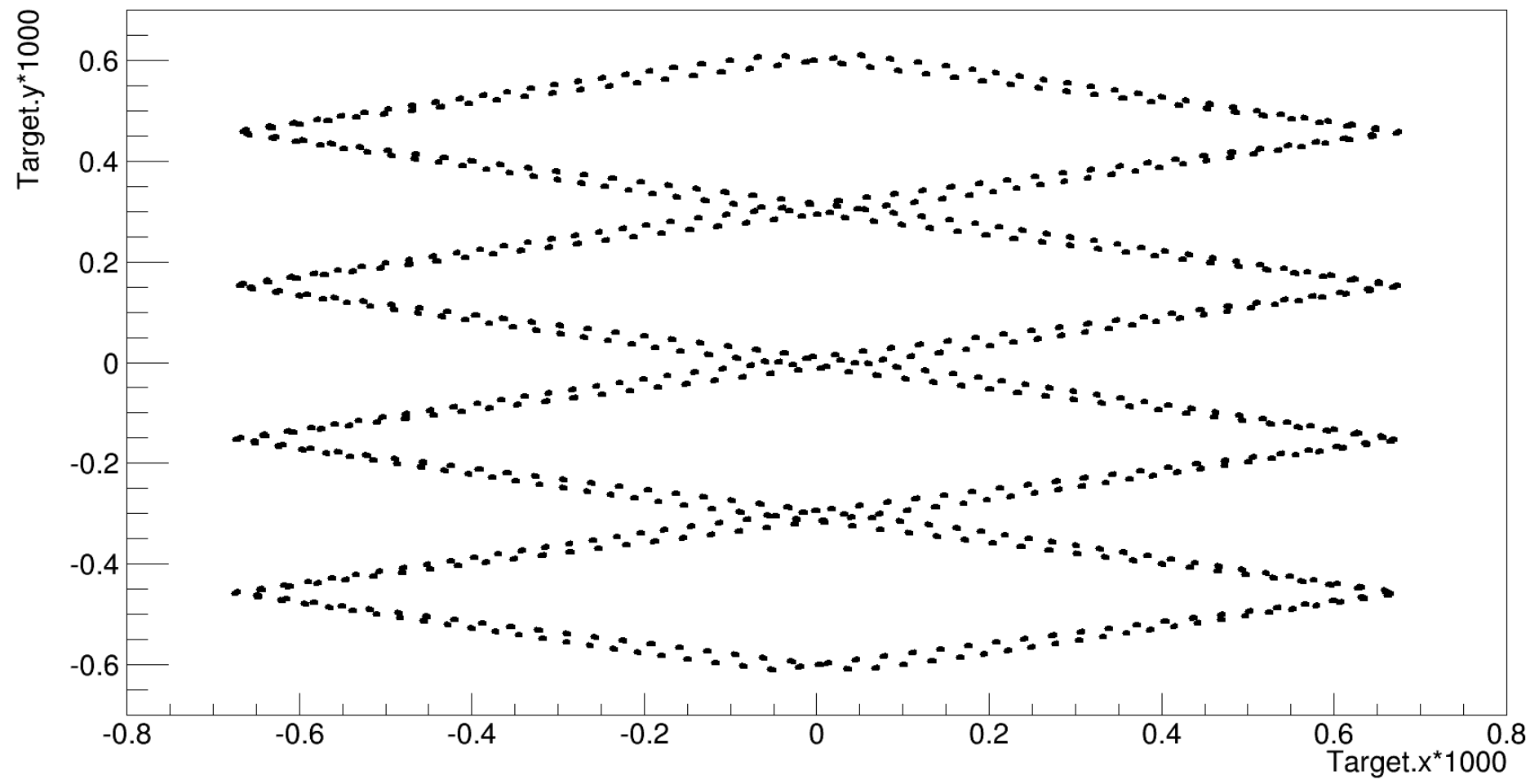
Target.y*1000:Target.x*1000

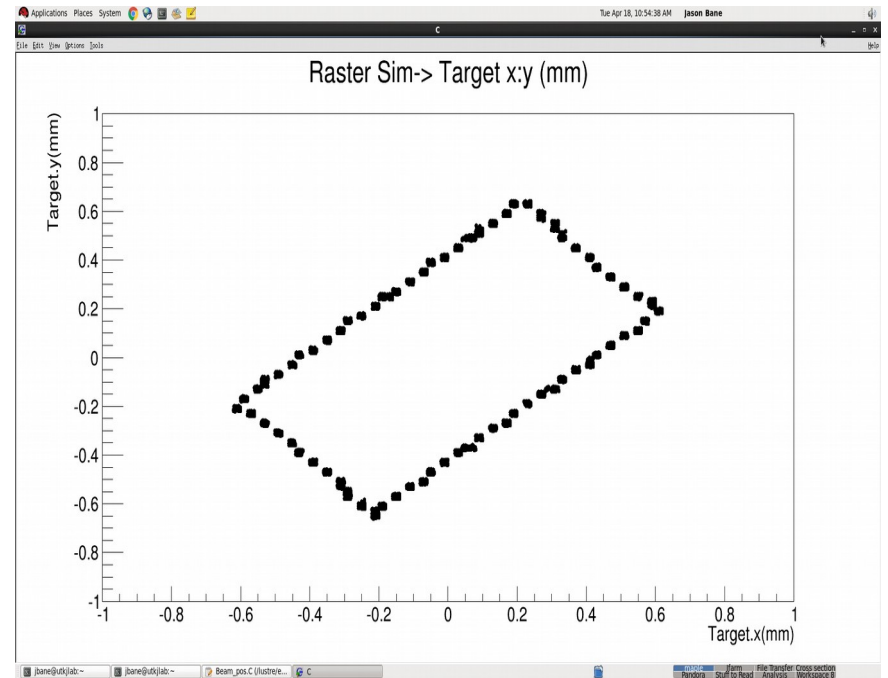
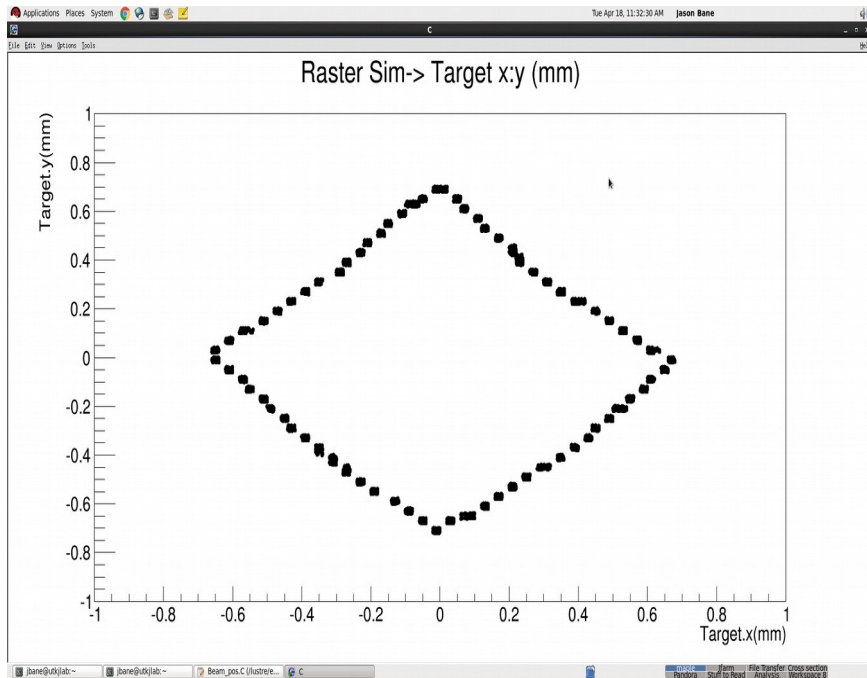
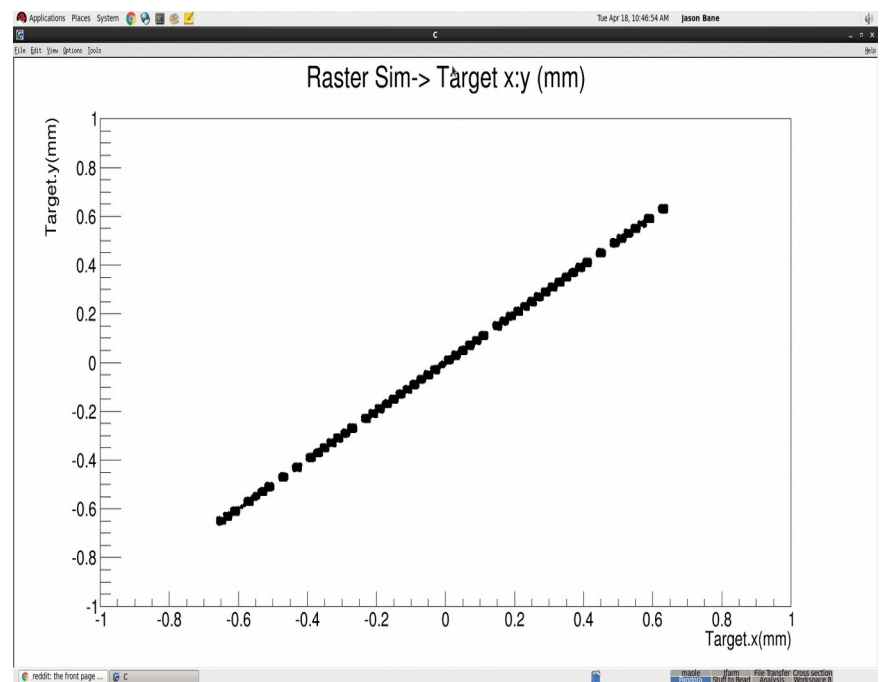
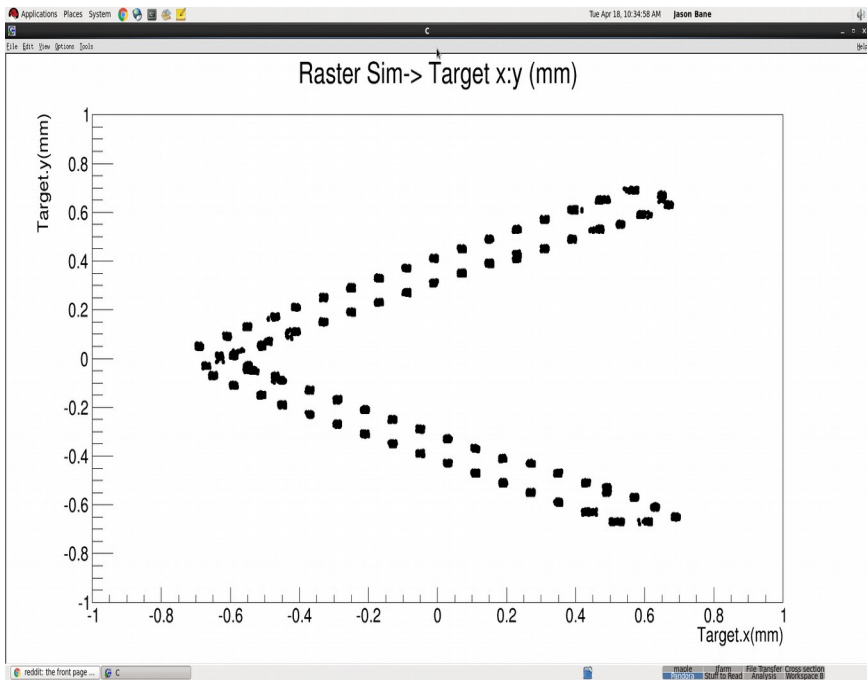


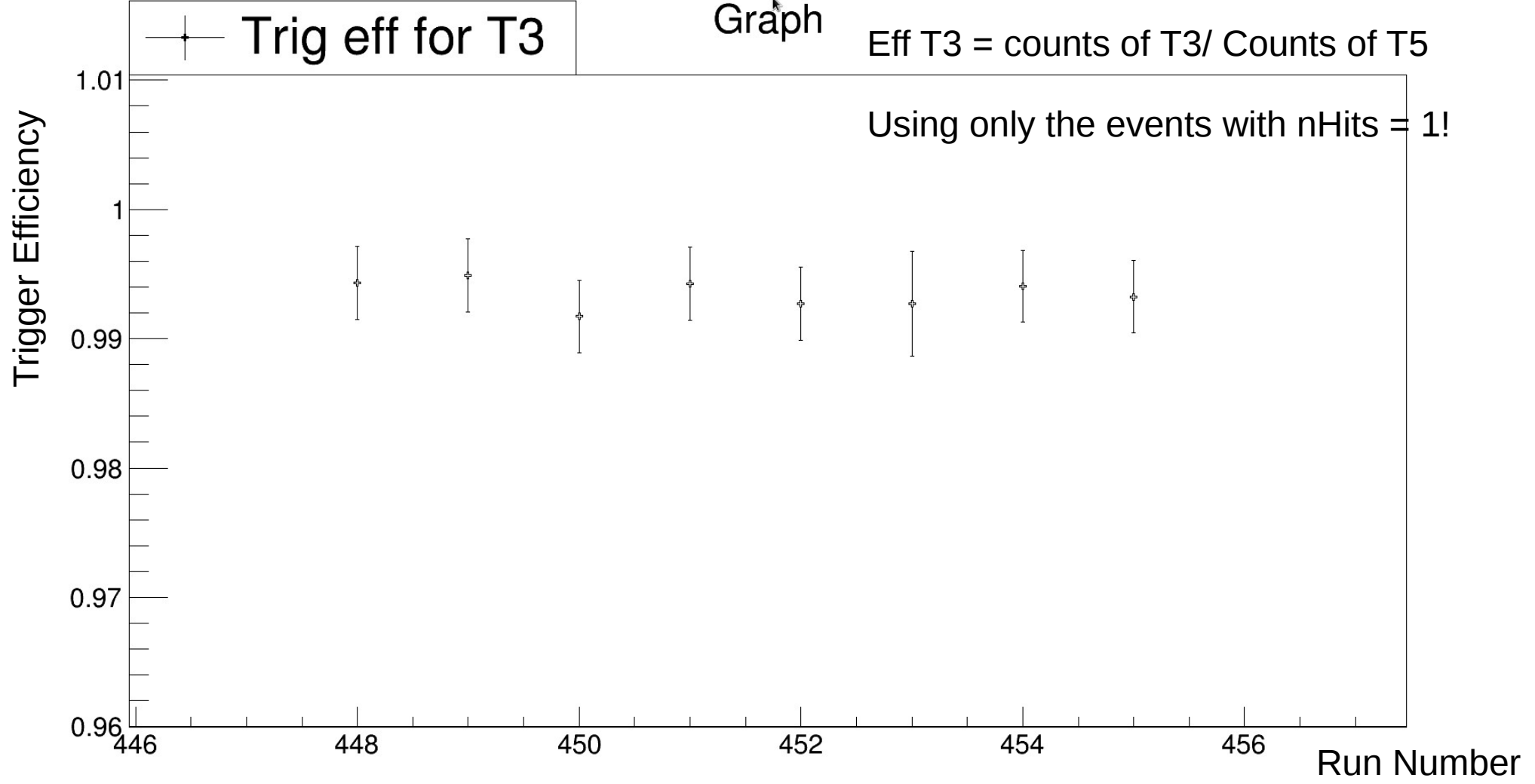
Target.y*1000:Target.x*1000



Target.y*1000:Target.x*1000







Eff T4 = counts of T4/ Counts of T6 Using only the events with nHits = 1!

Eff T4(alt) = counts of (T1&&T3)/(T2&&T3) Isolating the events that should fire T4 and T6

