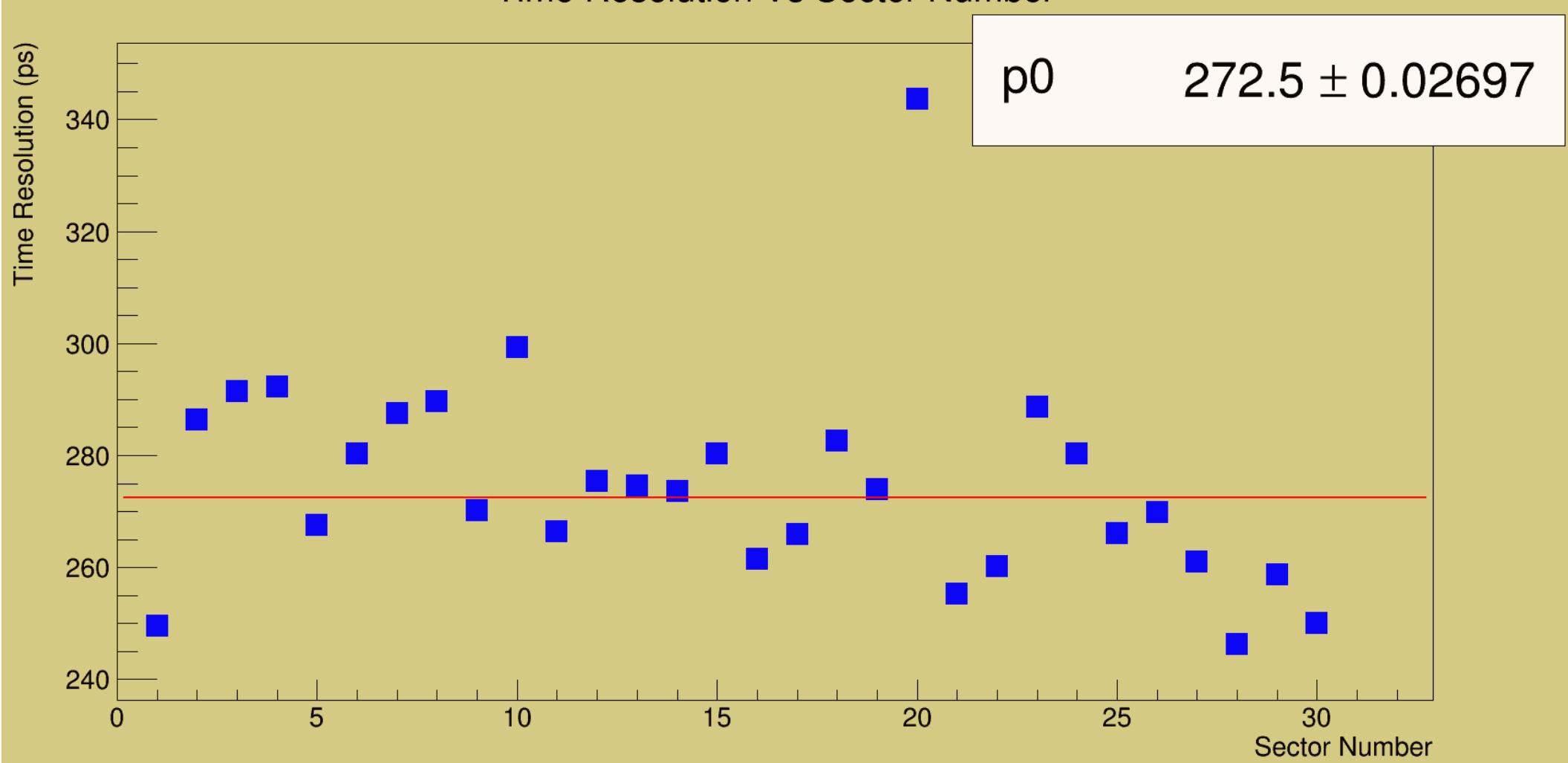


ST TW Update In Calibration Challenge

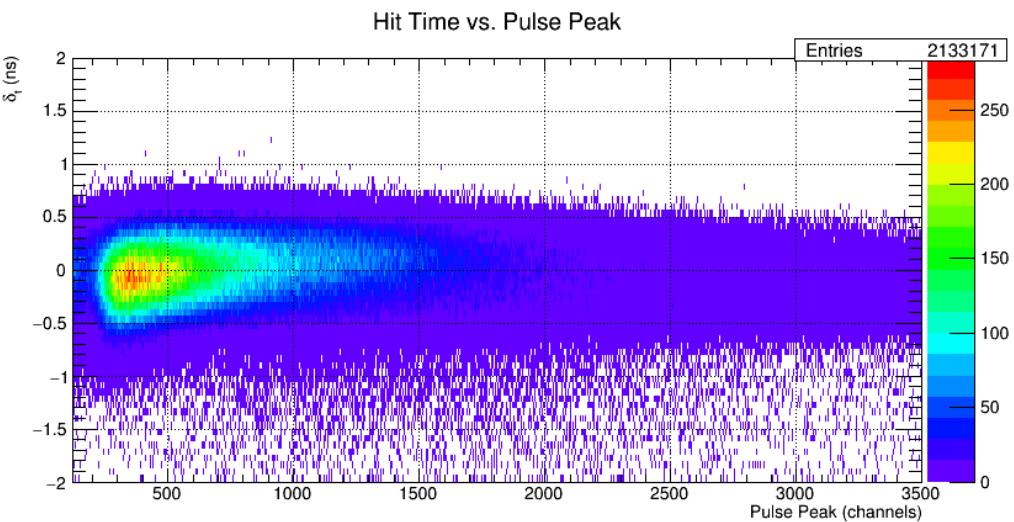
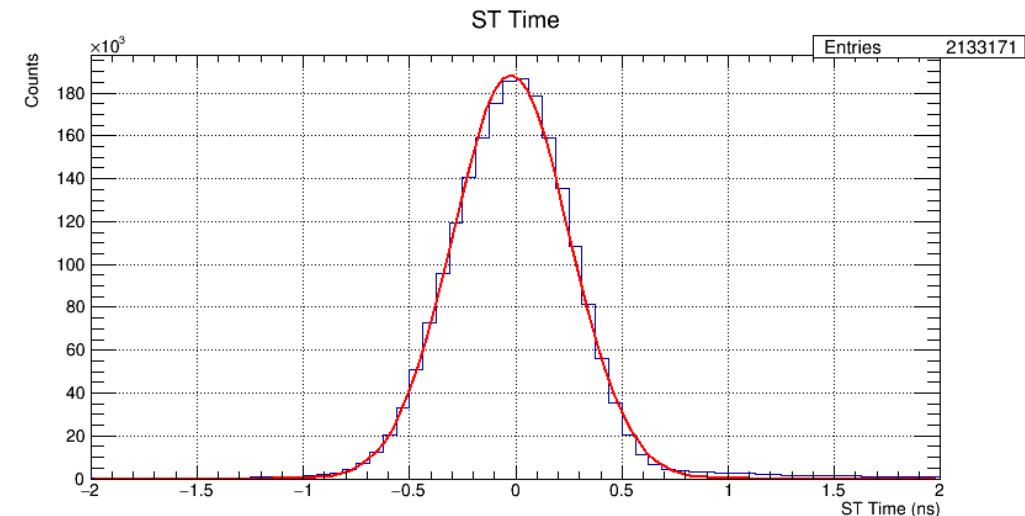
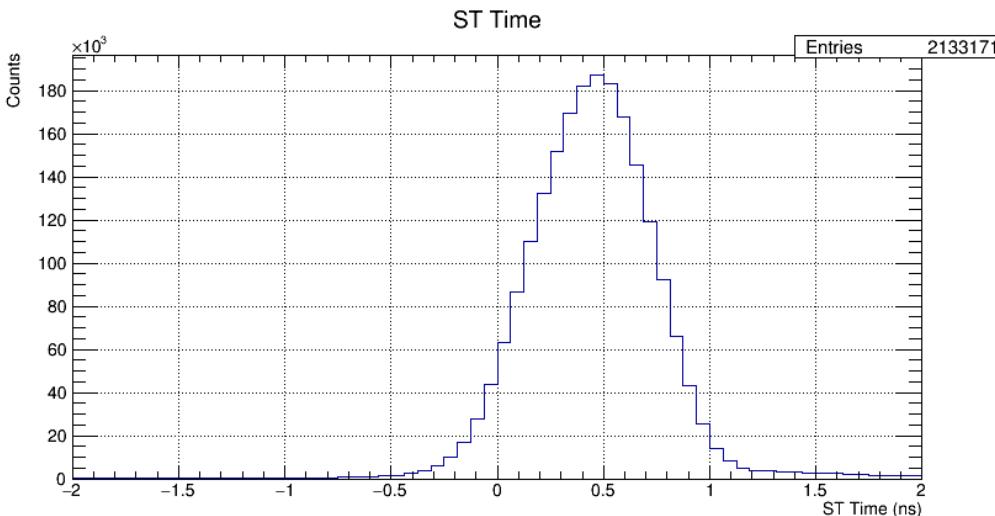
Mahmoud Kamel

ST Time Resolution

Time Resolution Vs Sector Number



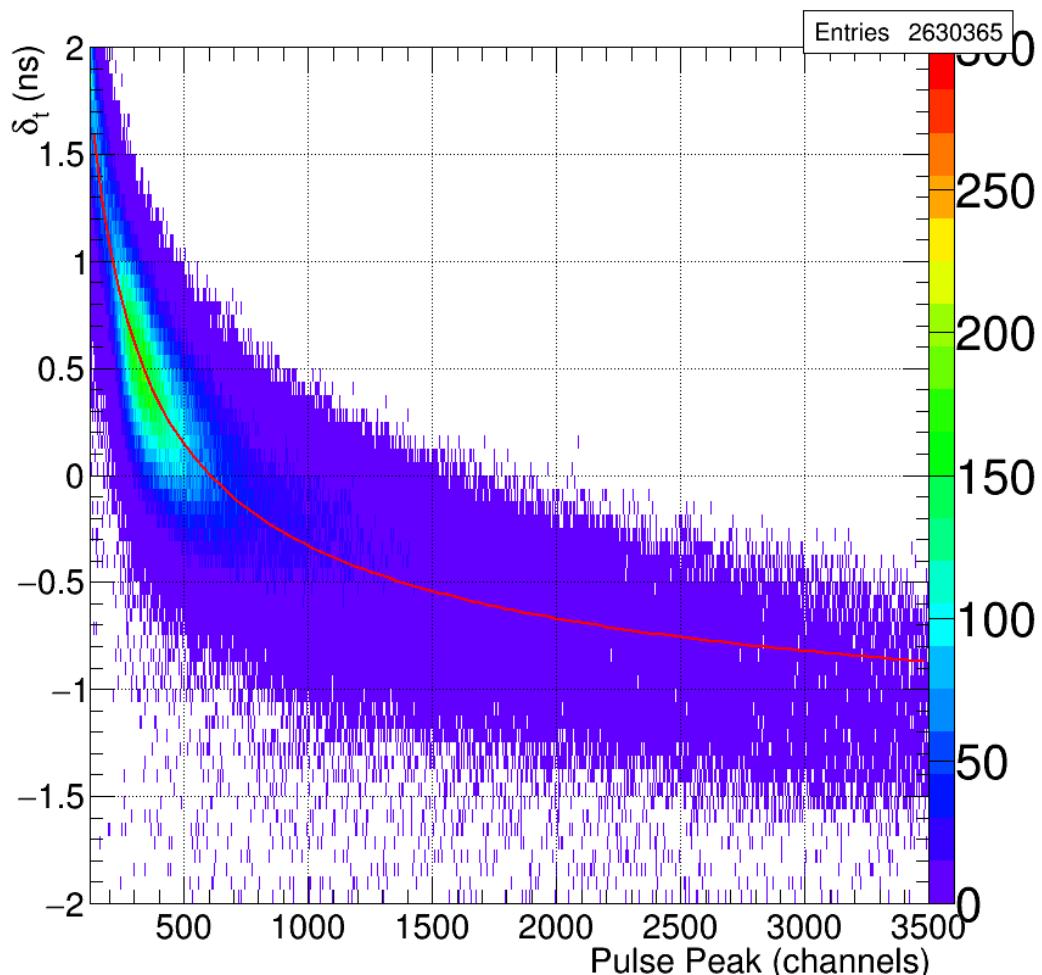
Plots from st_tw_resol.C: Pass 1



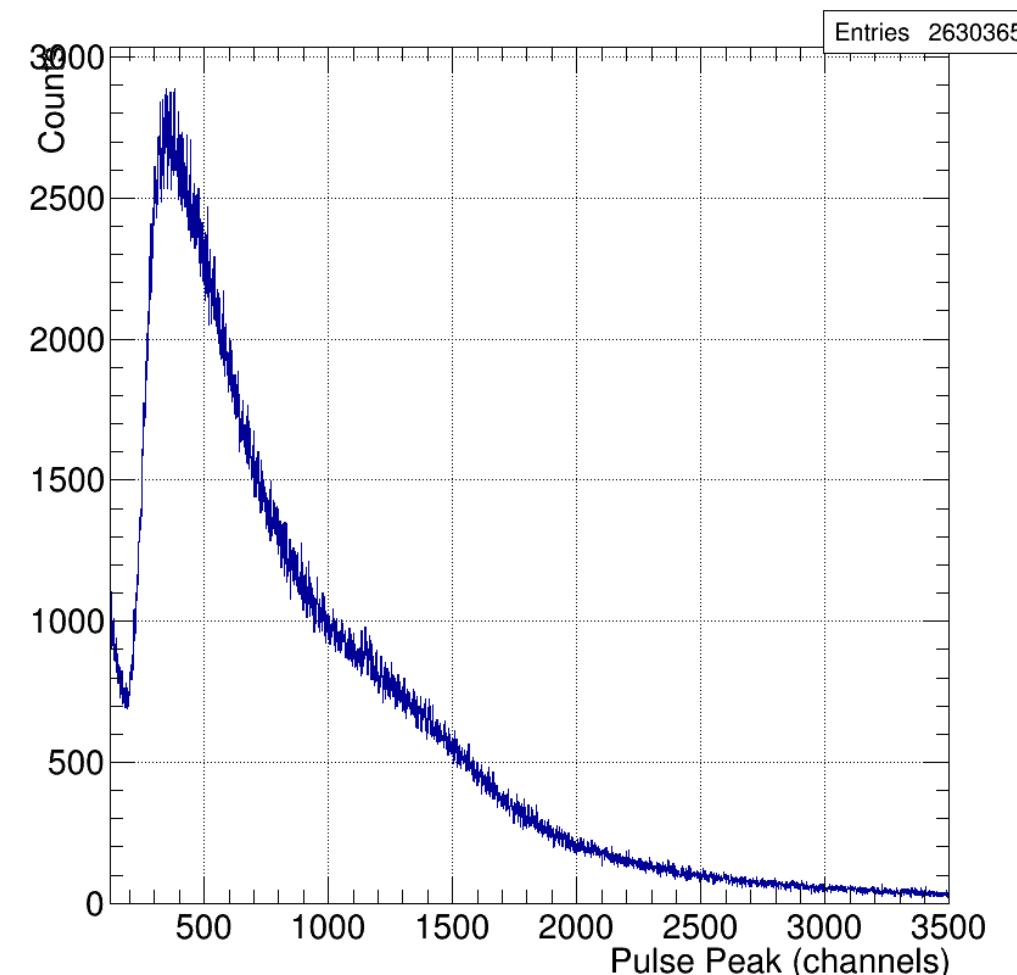
Sector 14
 $T = 273.6$ ps

Plots from st_tw_resol.C: Pass 0

Hit Time vs. Pulse Peak



Pulse Peak



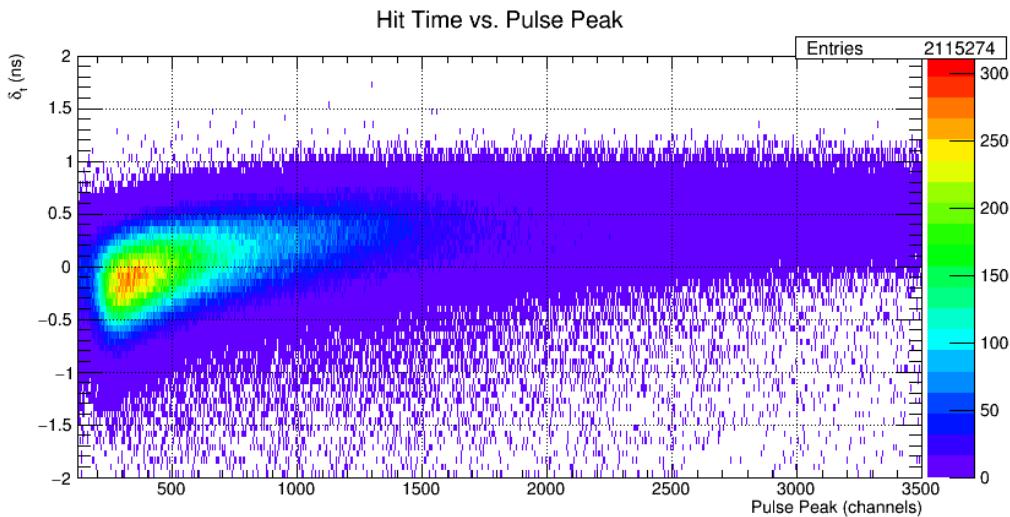
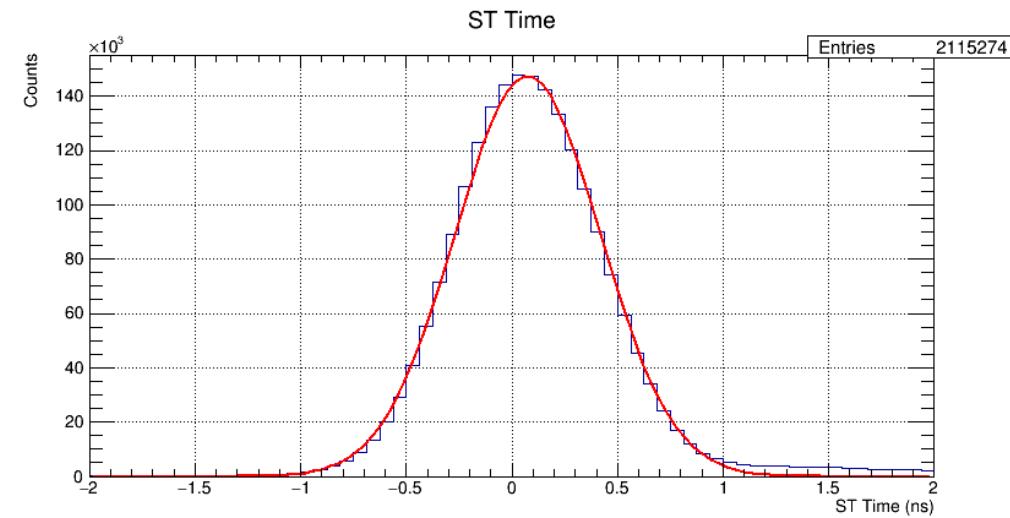
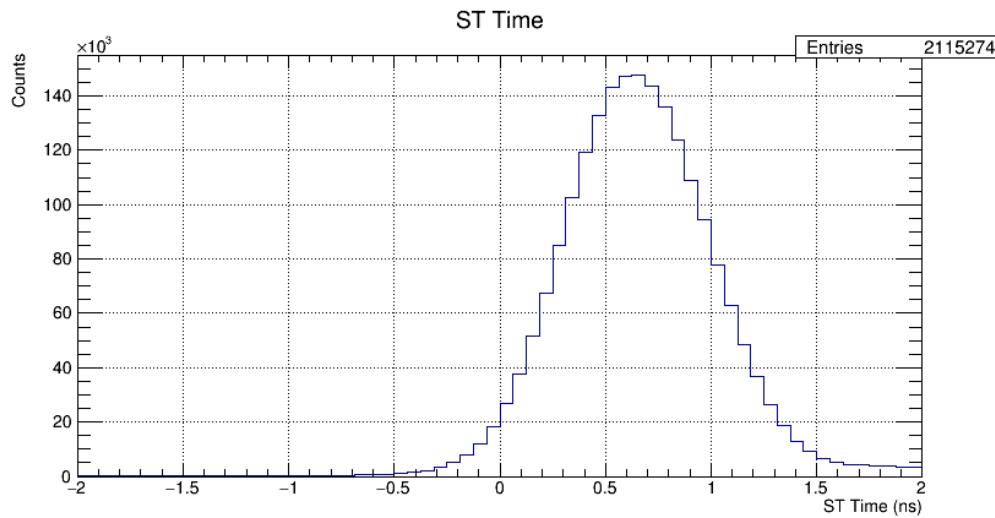
Time Walk Corrections

```
fitval = par[0] + par[1]*(TMath::Power(x[0]/A_THRESH, par[2]));
```

```
st_time -= C0 + C1 *(TMath::Power(A0/A_THRESH, C2));
```

A0: The most probable pulse peak value

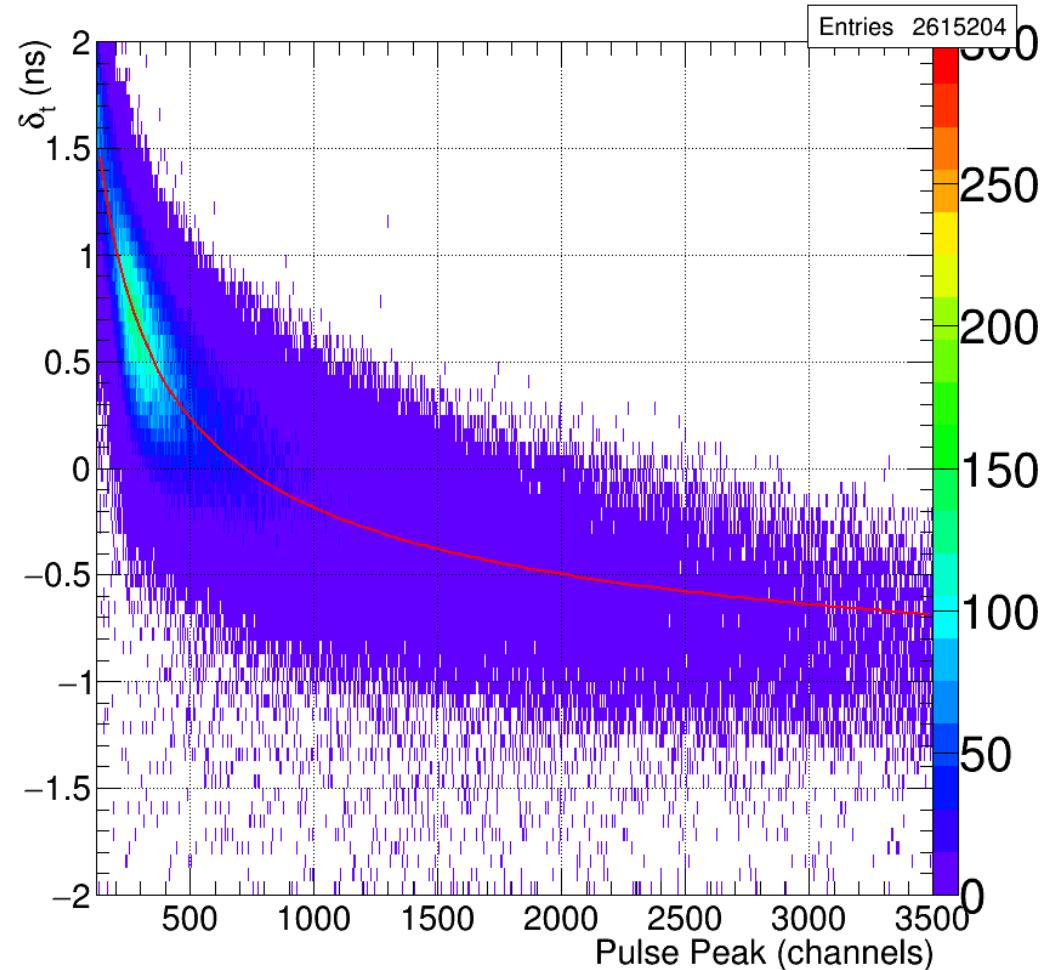
Sector 20 After corrections !



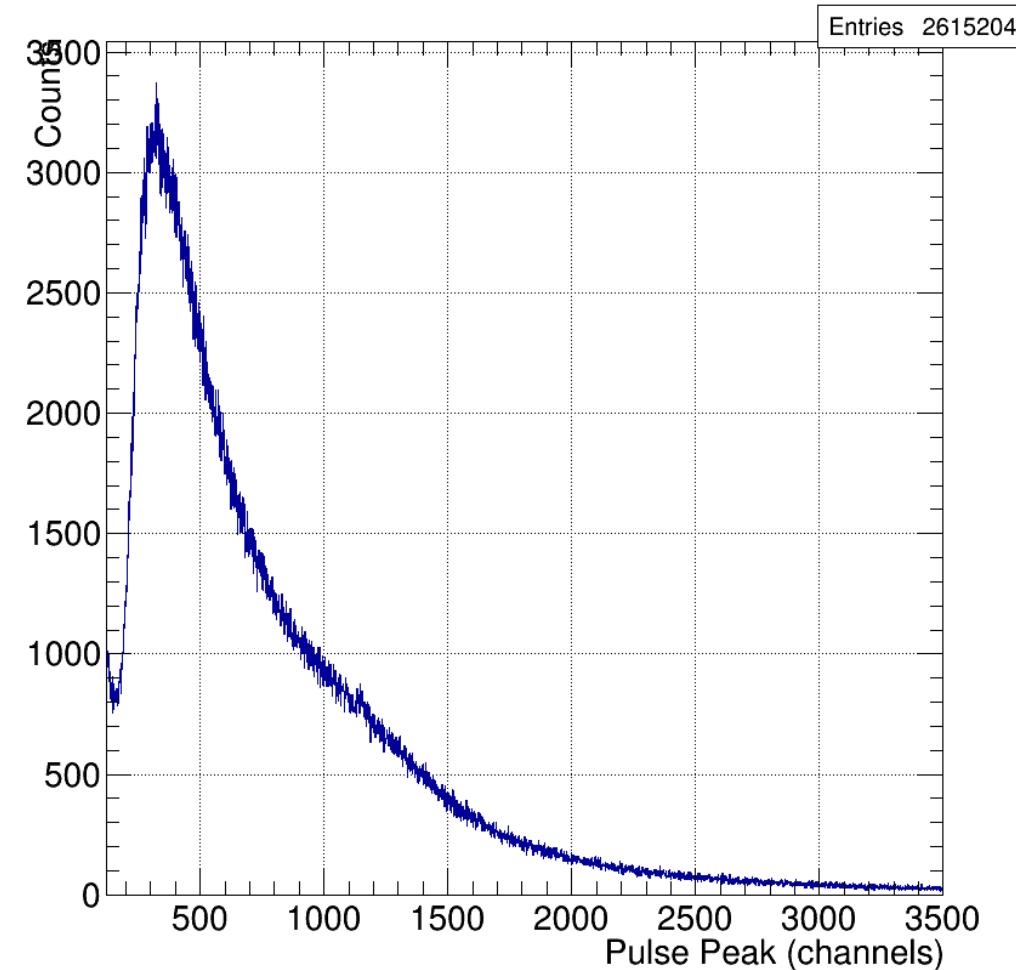
Sector 20
 $T = 343.6$ ps

Sector 20 Before Corrections

Hit Time vs. Pulse Peak



Pulse Peak



Back up slide