

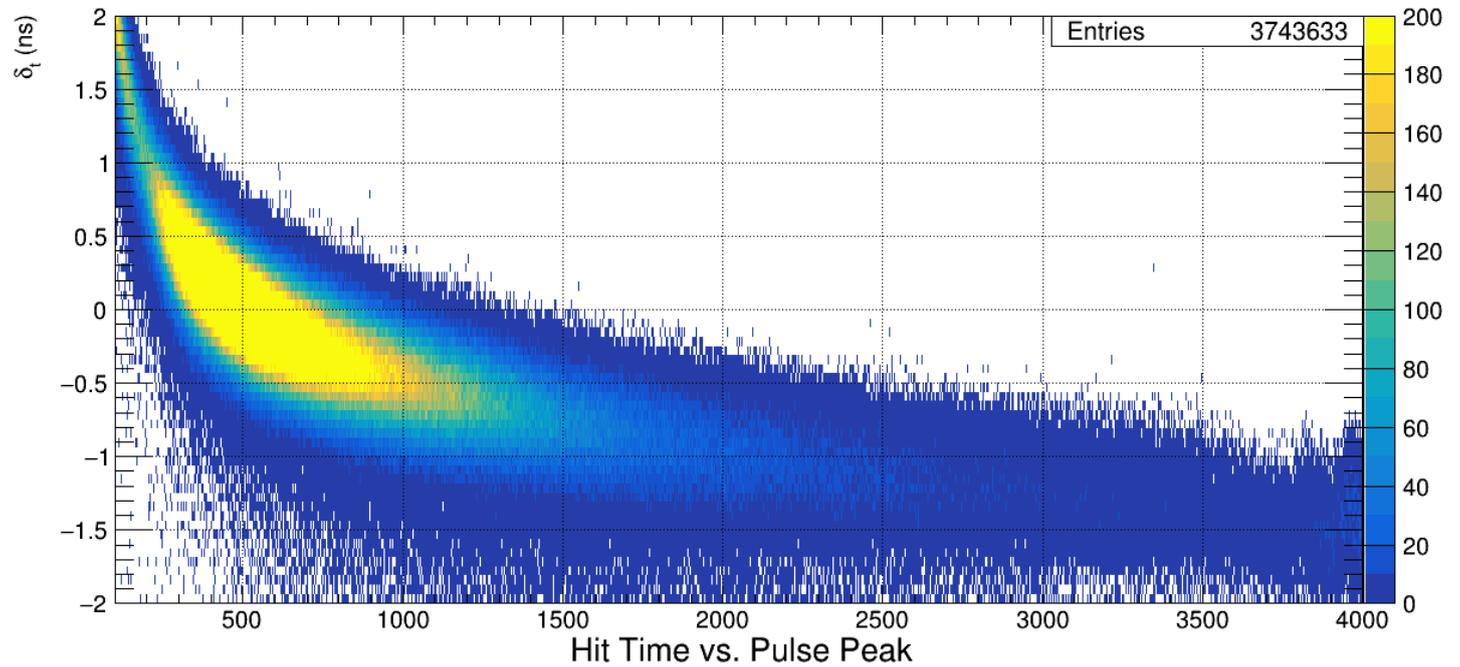
Start Counter Calibration

Mahmoud Kamel

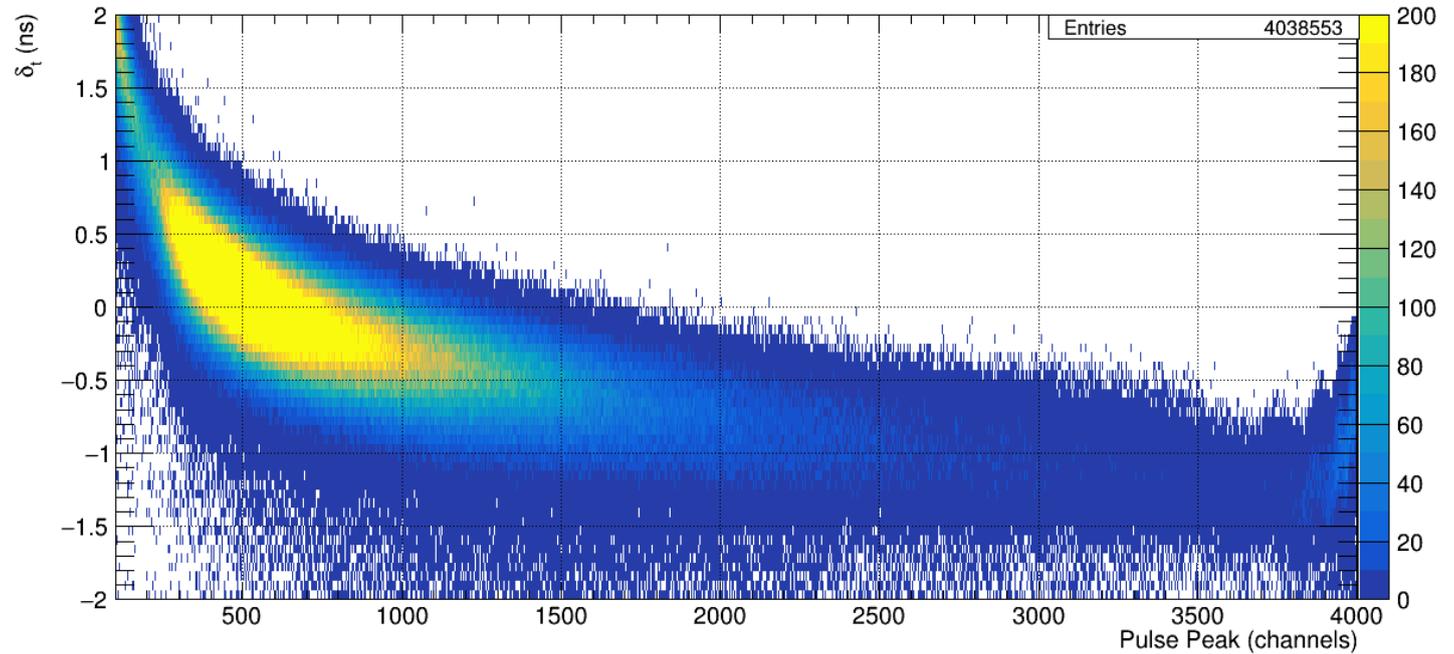
Time Walk Corrections

Hit Time vs. Pulse Peak

- Start counter time Vs PP for selected files of 6 runs.
- Sector 1

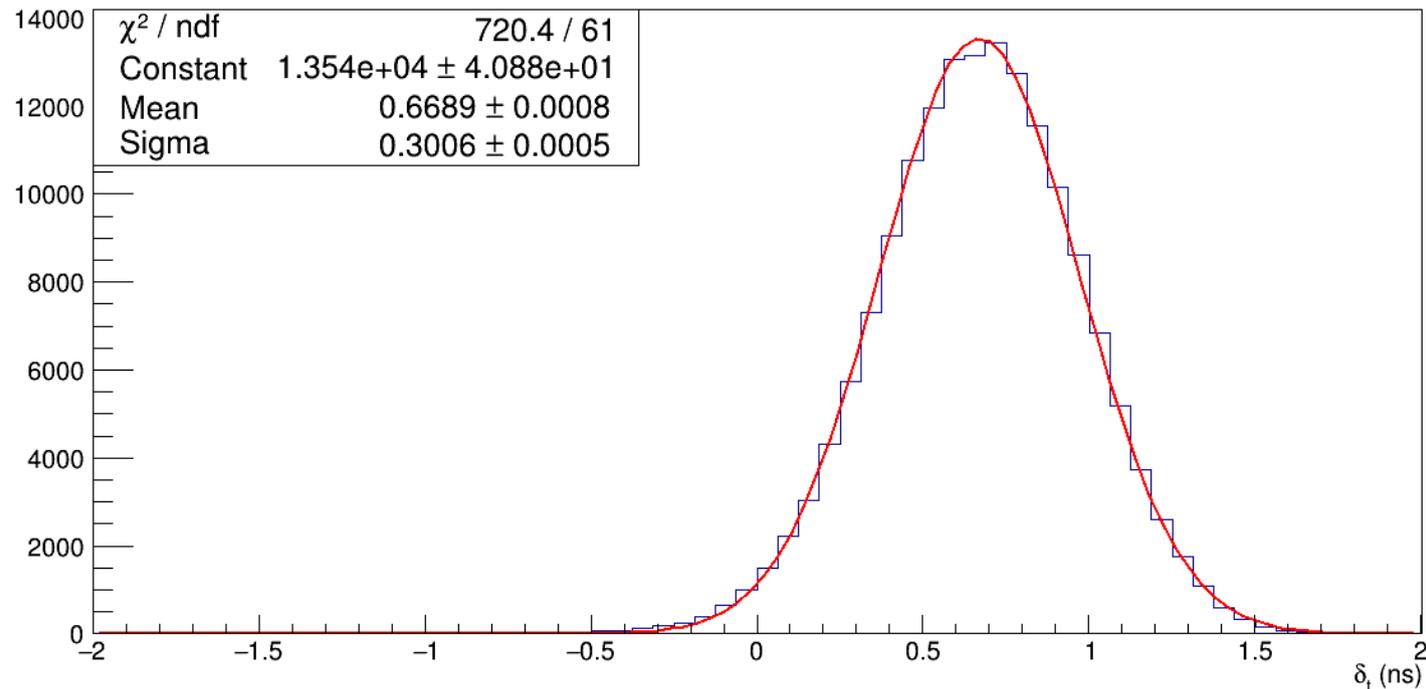
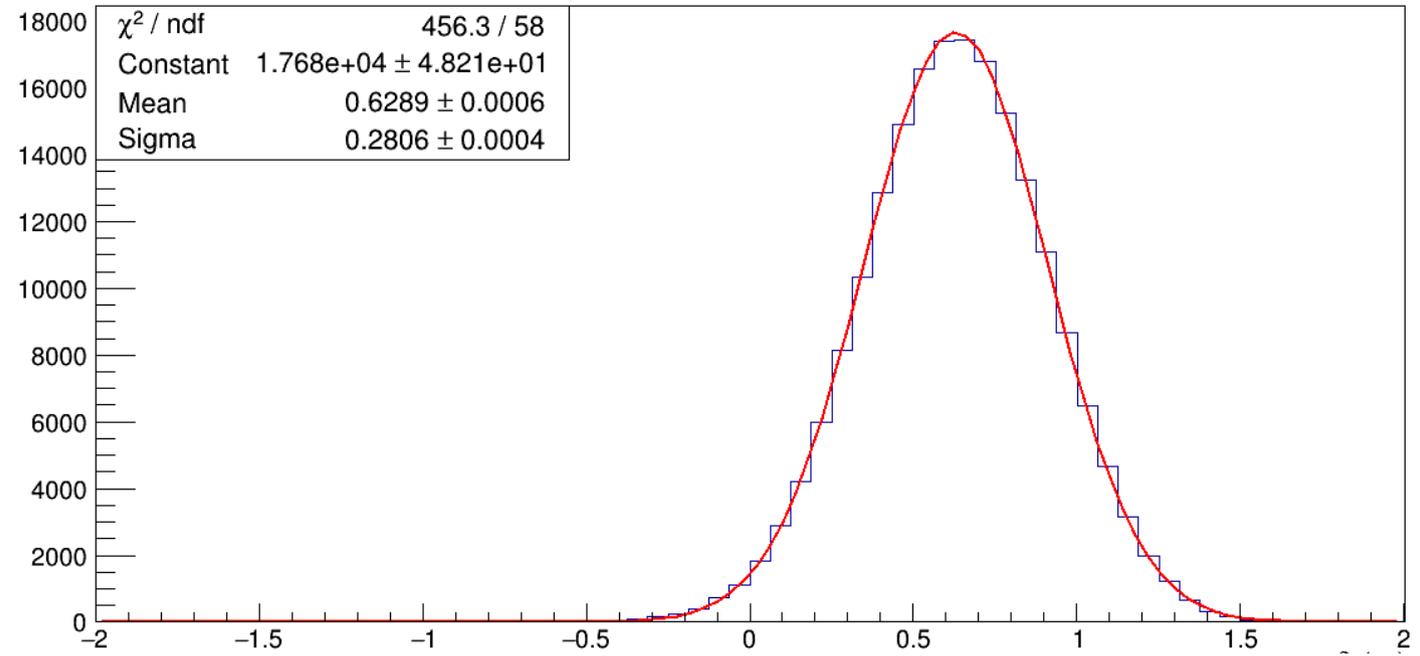


Sector 11



Time Walk Corrections

- Start counter time Vs PP for selected files of 6 runs.
- Sector 1, pp200-pp300

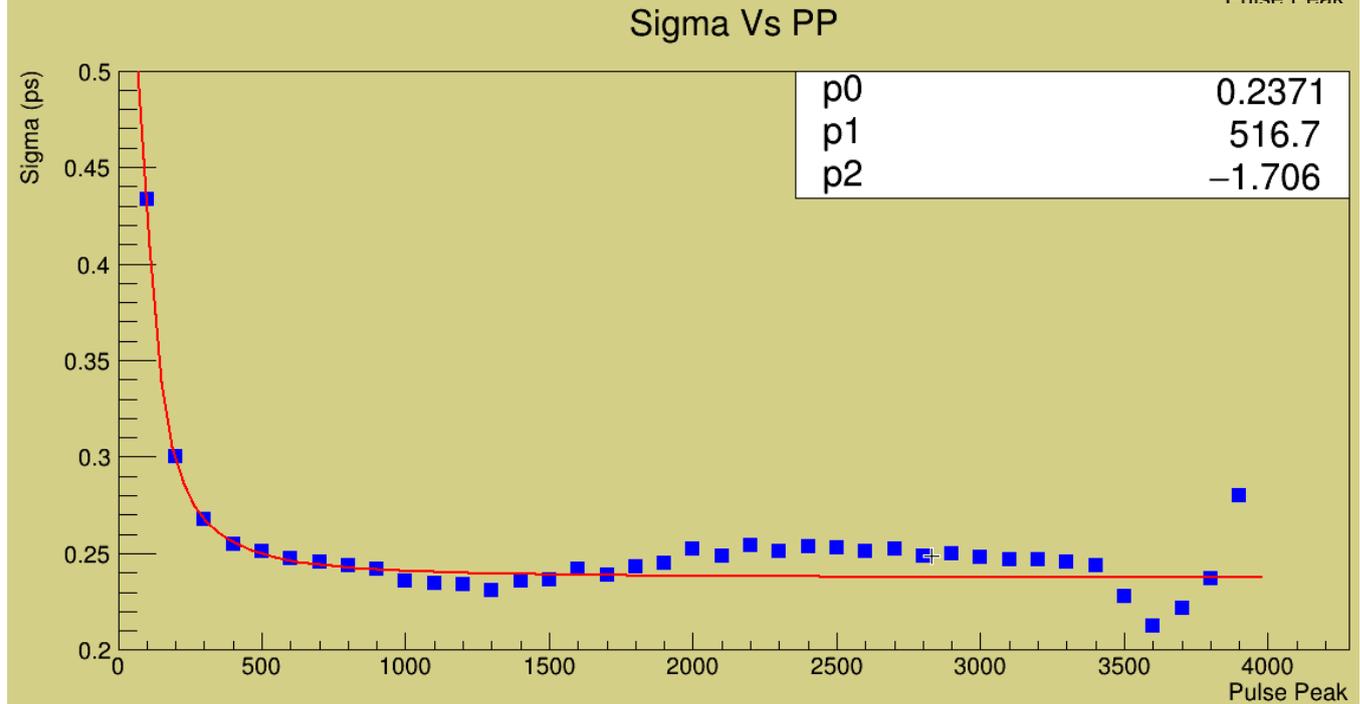
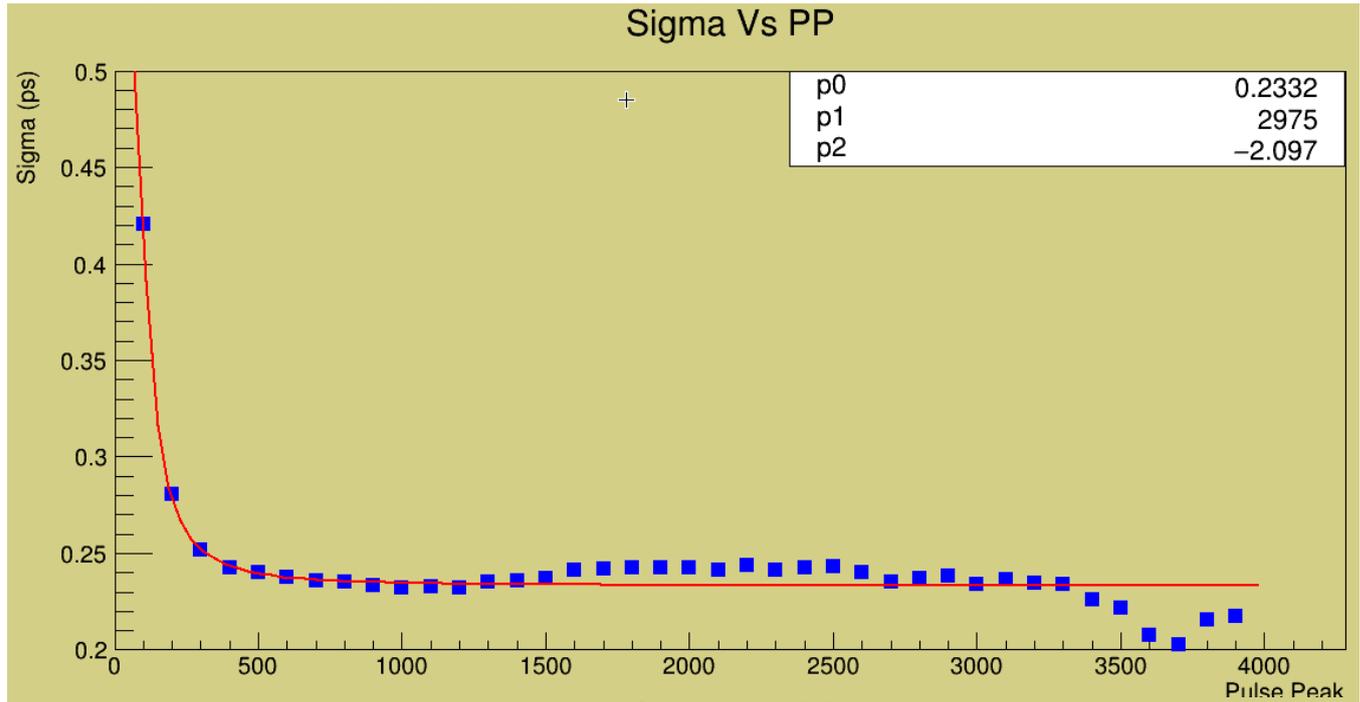


Sector 11,pp200-pp300

Time Walk Corrections

- Sigma Vs PP for 100 pp channels.
- Sector 1

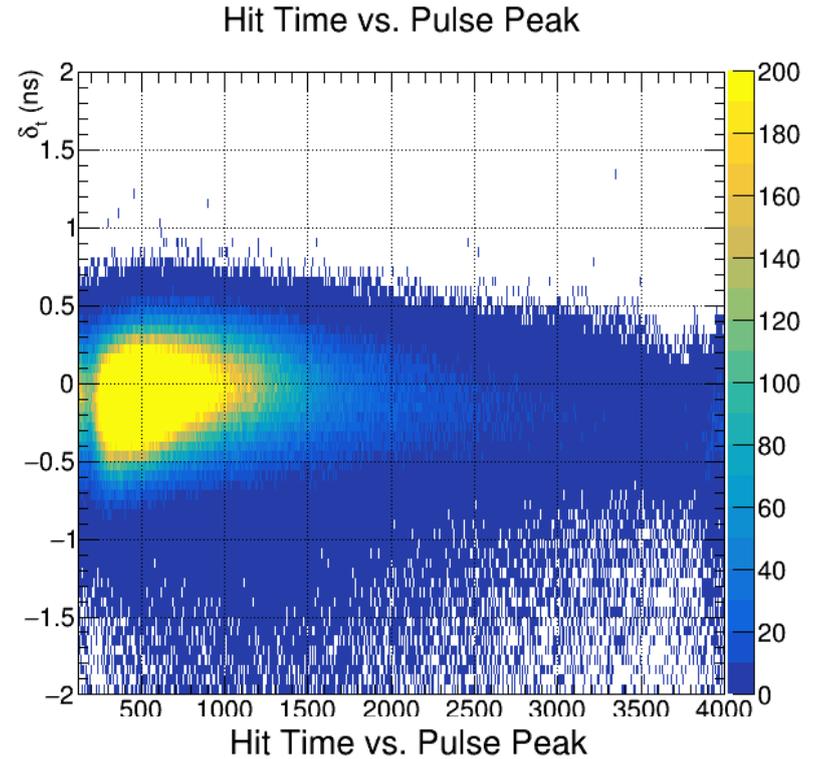
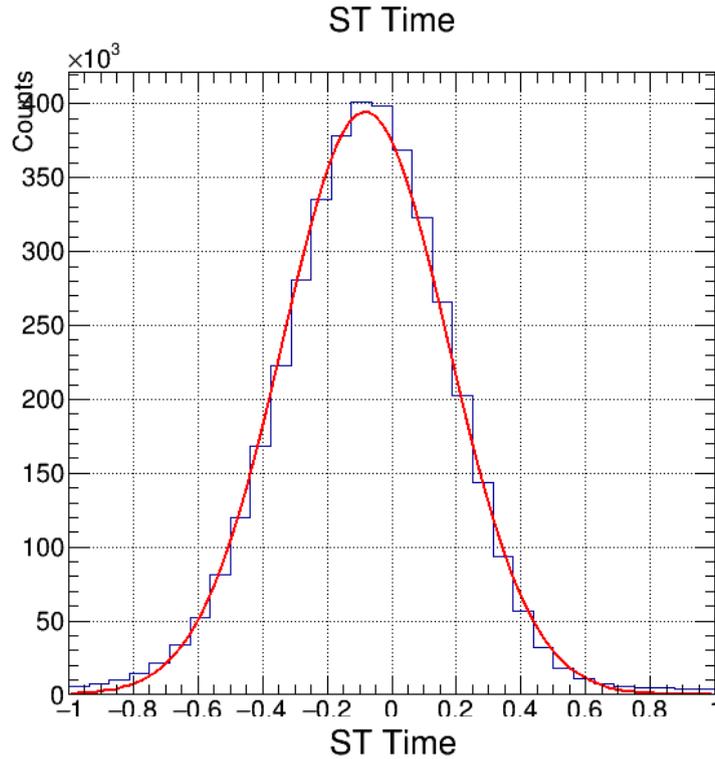
$$f(x) = C_0 + c_1 * x^{c_2}$$



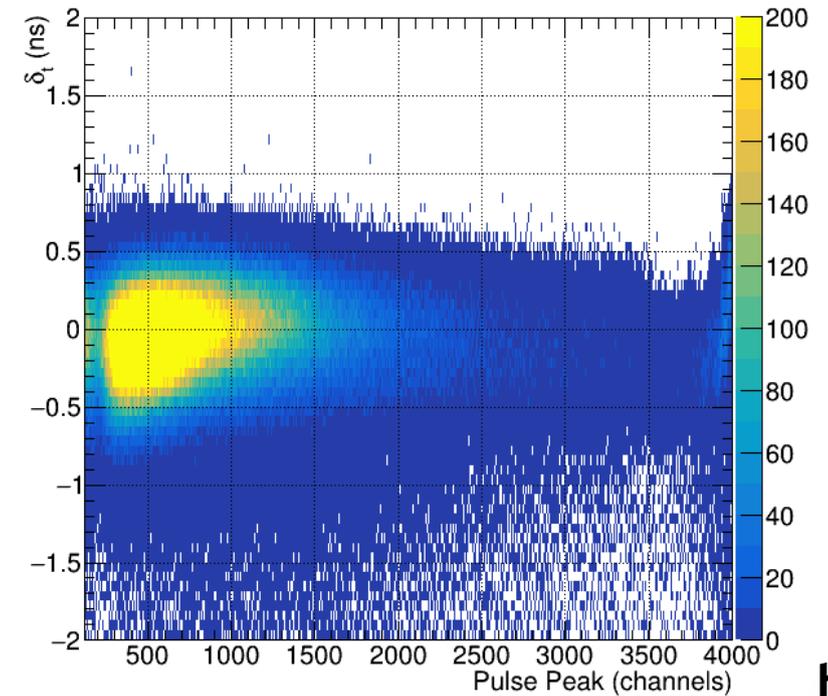
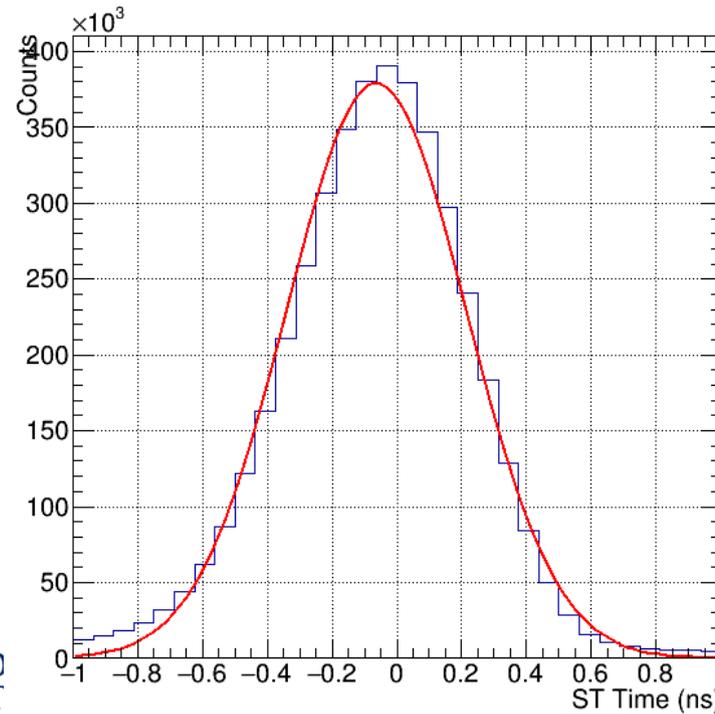
Sector 11

Time Walk Corrections

- After Walk correction
- Sector 1

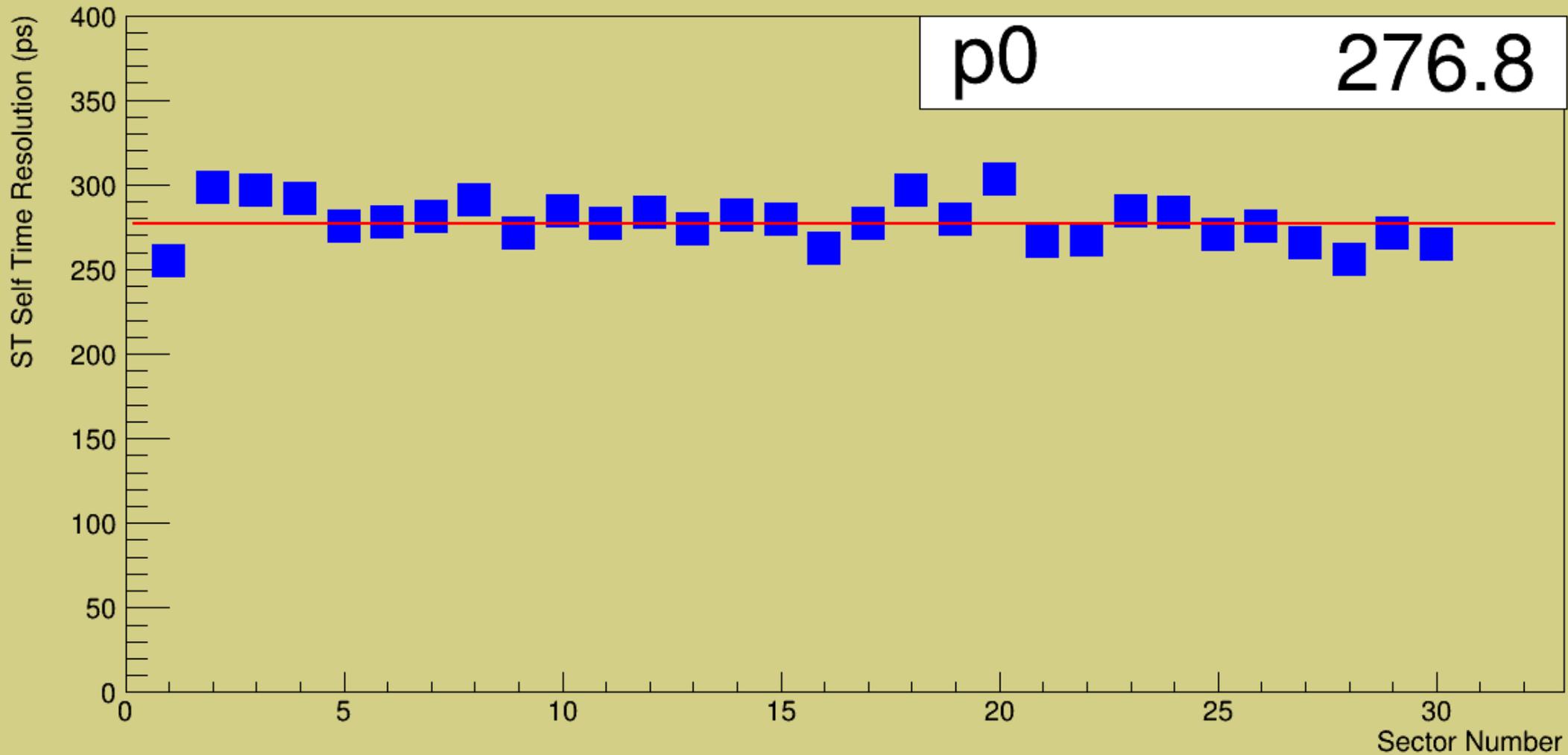


Sector 11



Time Walk Corrections

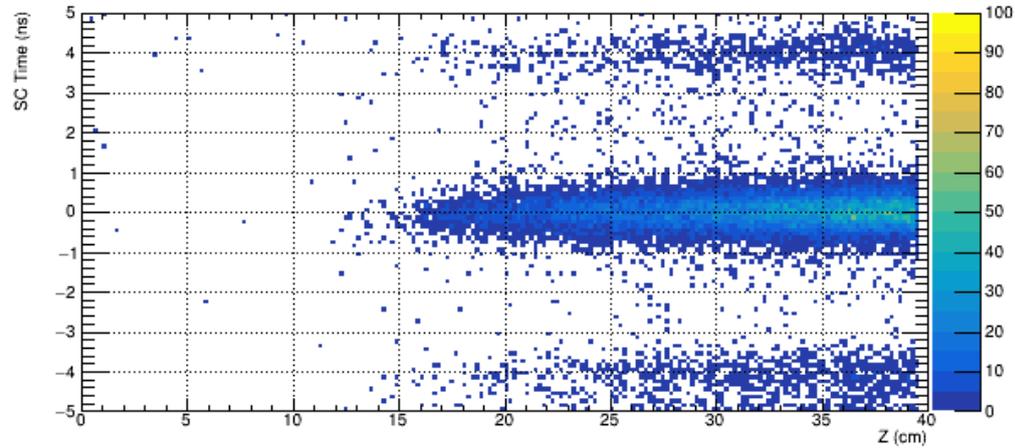
ST Self Time Resolution Vs Sector Number



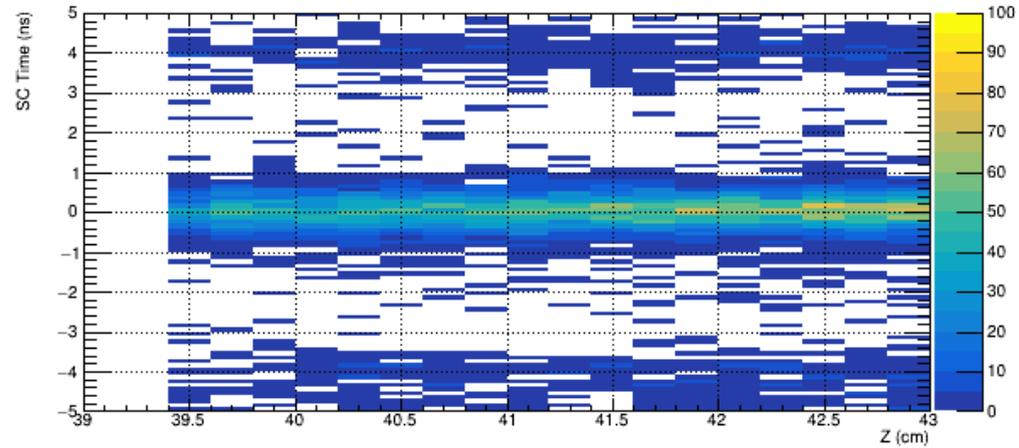
Propagation Time Corrections

Corrected start counter time Vs Z for each geometrical section of sector 1.

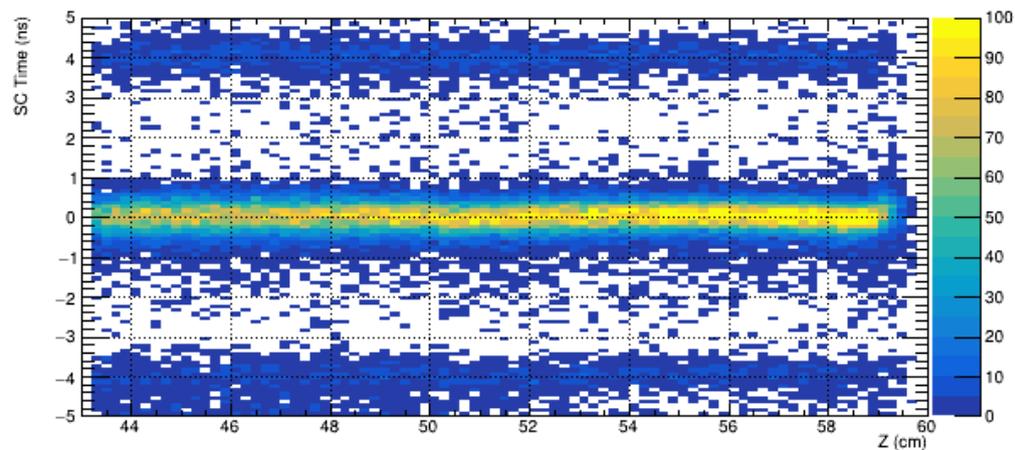
Straight Section Corrected Time



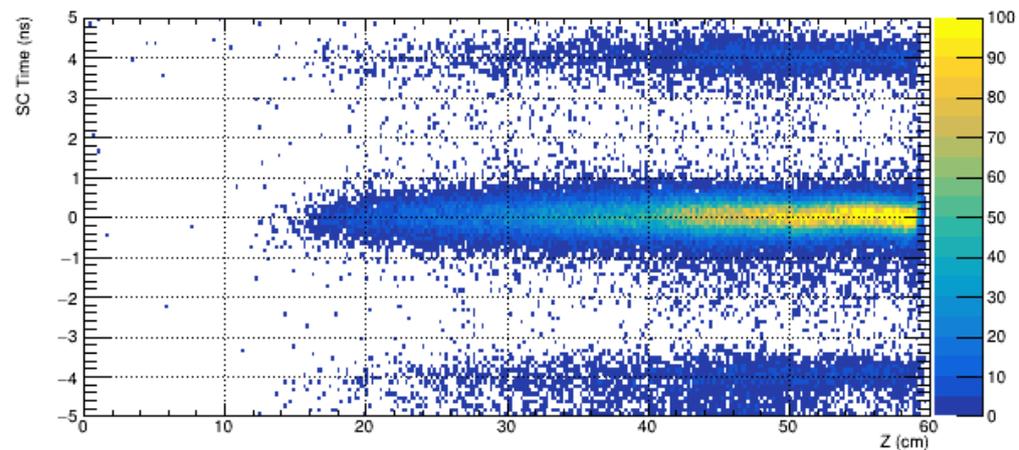
Bend Section Corrected Time



Nose Section Corrected Time

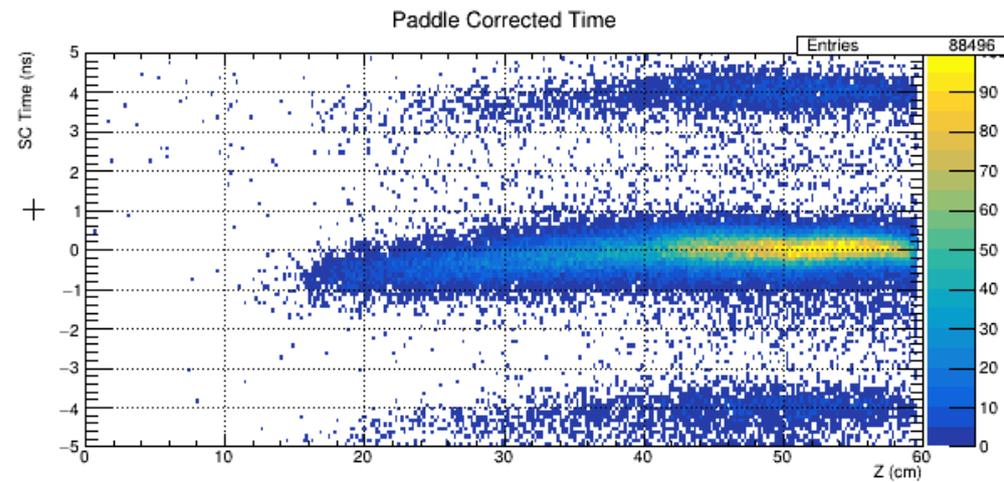
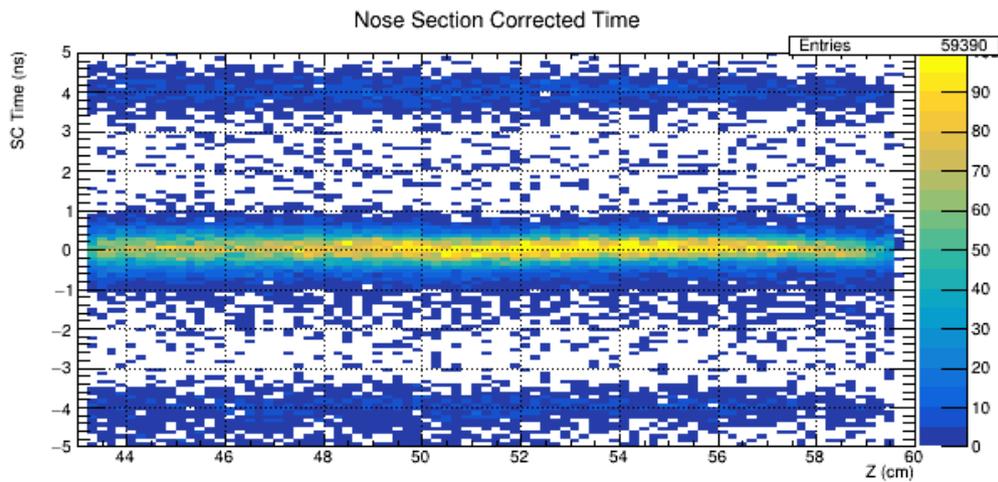
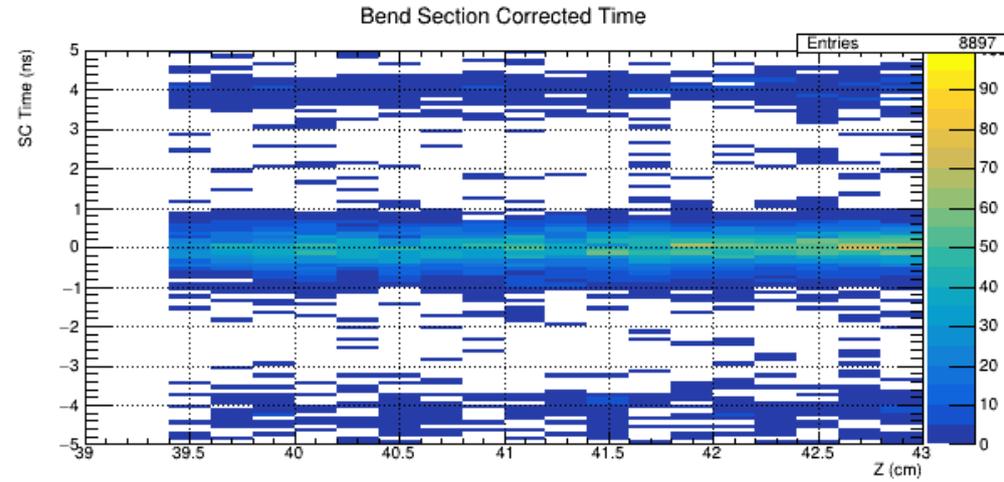
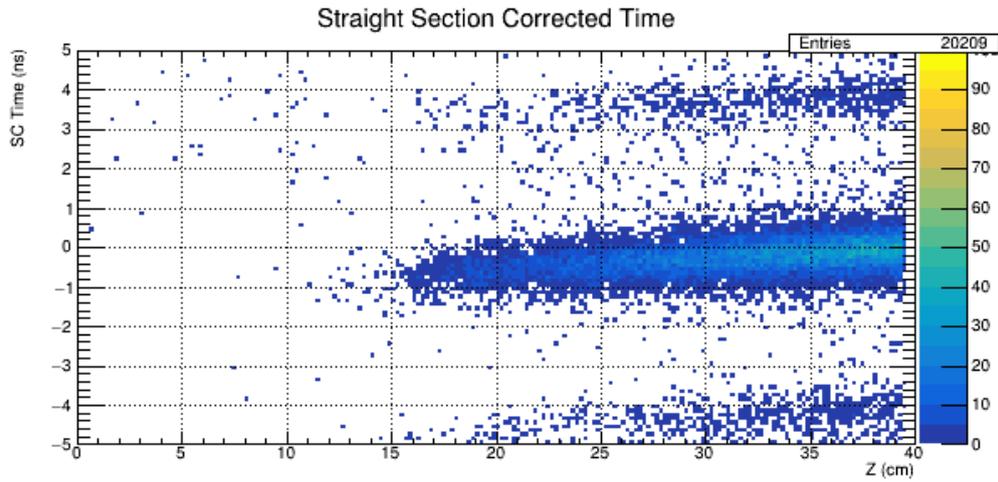


Paddle Corrected Time



Propagation Time Corrections

Corrected start counter time Vs Z for each geometrical section of sector 11.



Time Resolution

Time Resolution After Applying Propagation Time Corrections

