

# Start Counter Calibration

Mahmoud Kamel

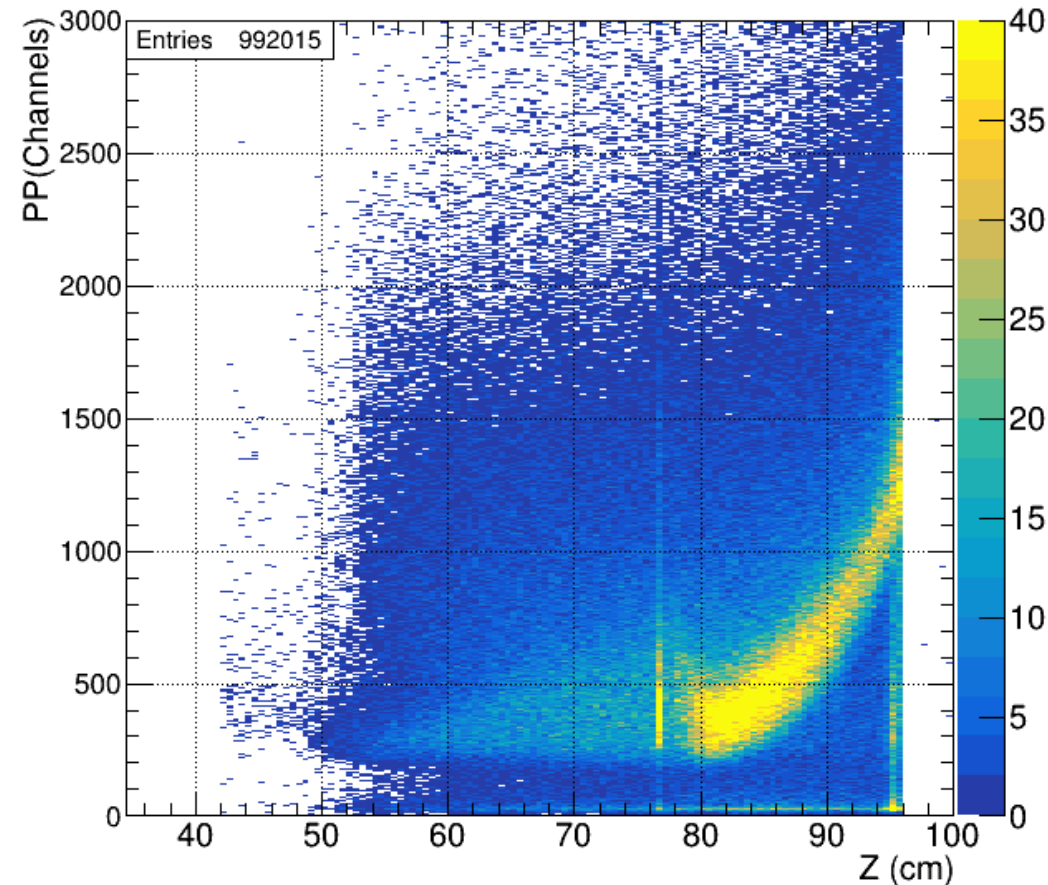
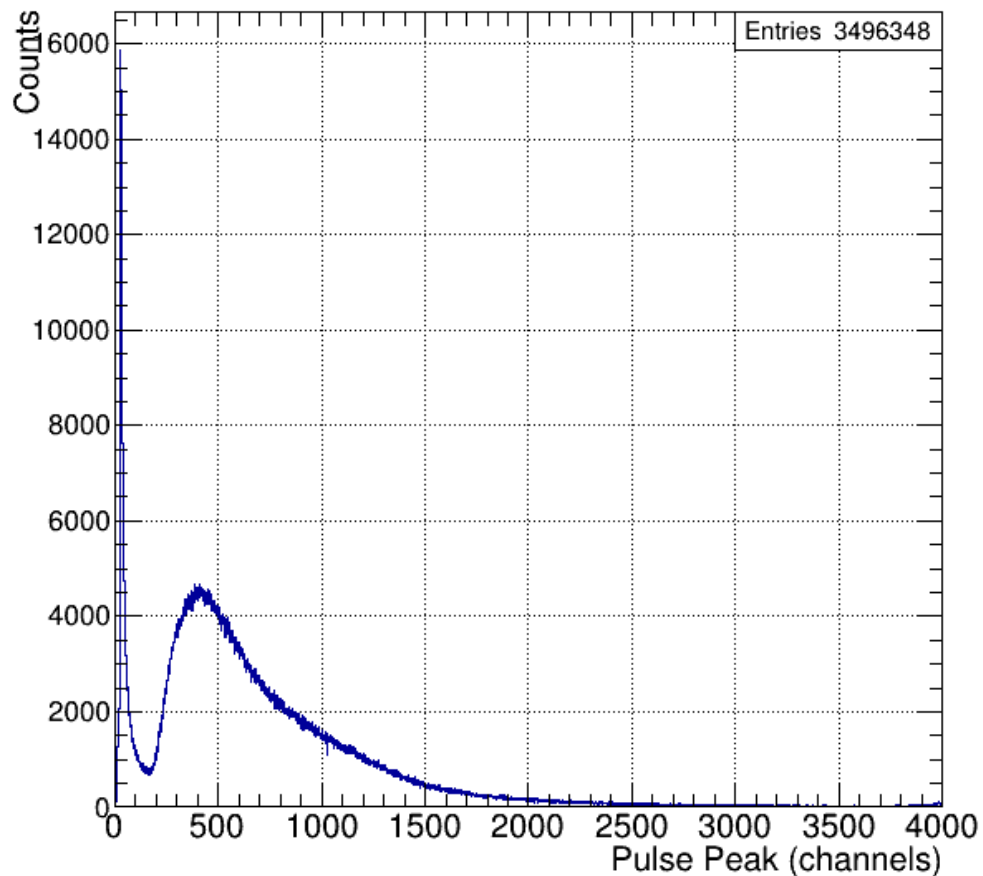
# Pulse Peak Vs Z

- 32 files of runs 31031 and 31032
- Get the pp and the sector. Loop over the charged tracks; Get quality track and if the same sector as pp had a track or its neighbors, plot pp vs z.

Sector 23

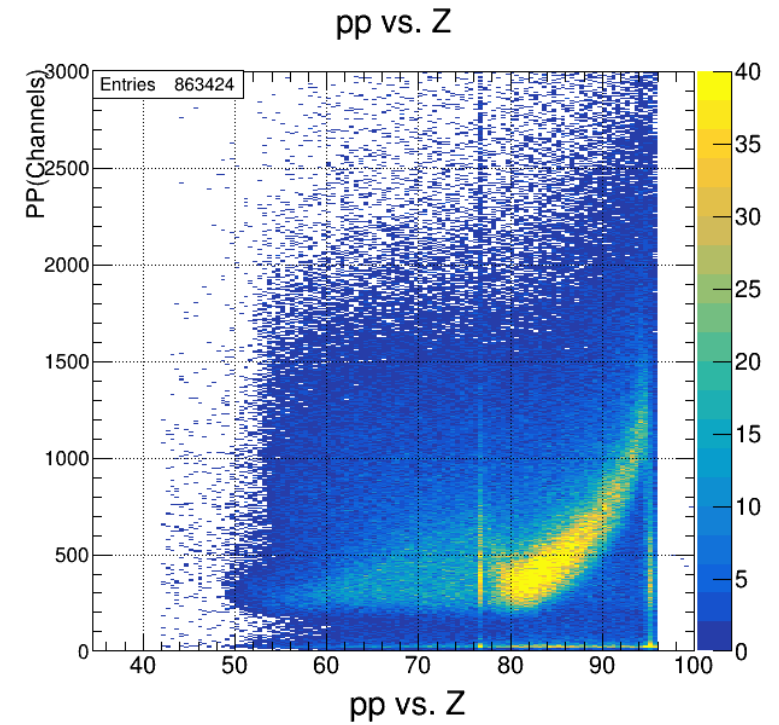
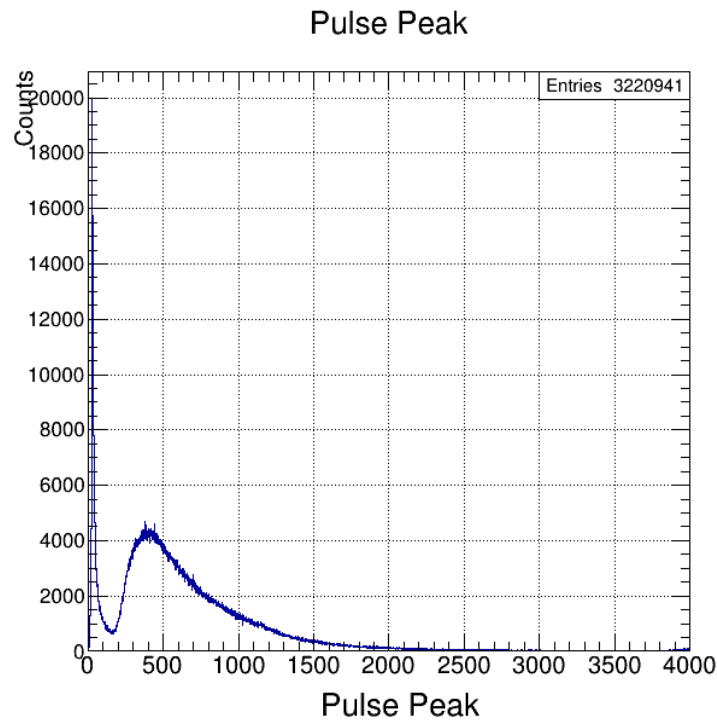
Pulse Peak

pp vs. Z

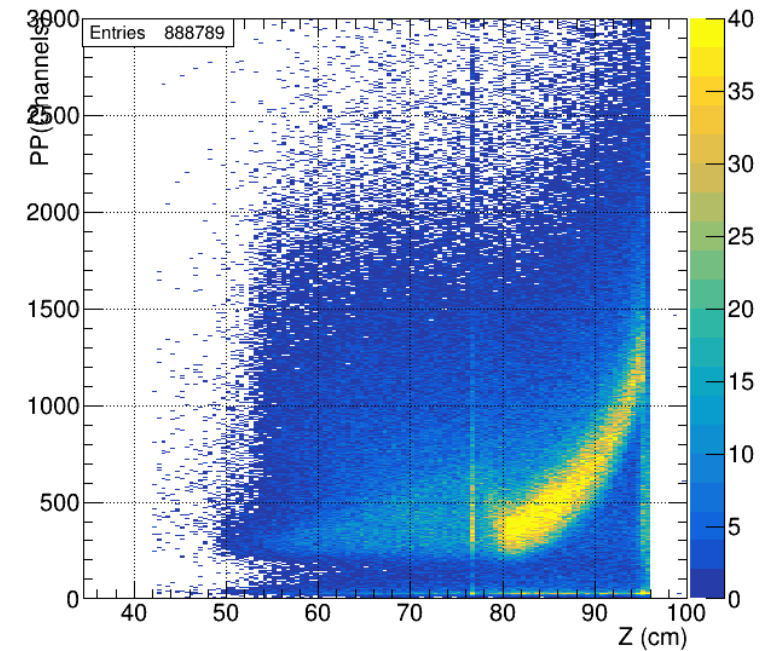
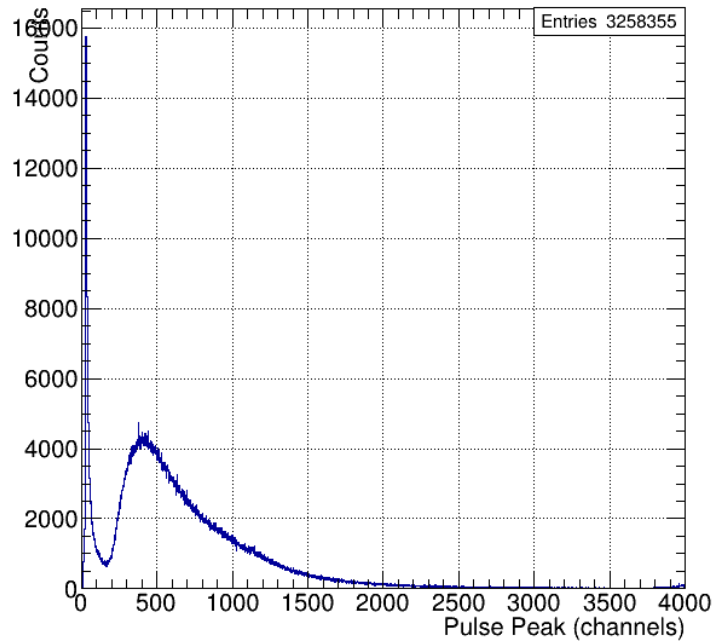


# Pulse Peak Vs Z

- PP Vs Z for 32 files of runs 31031 and 31032
- Sector 8



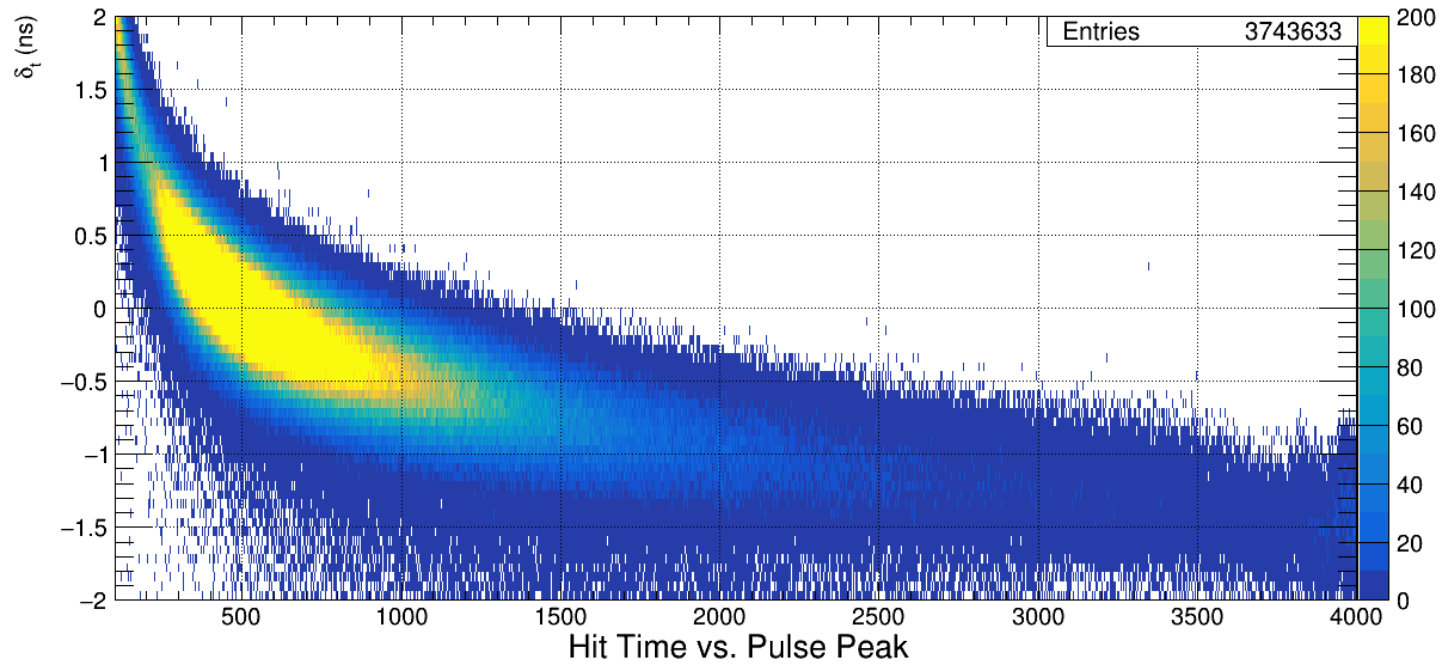
Sector 11



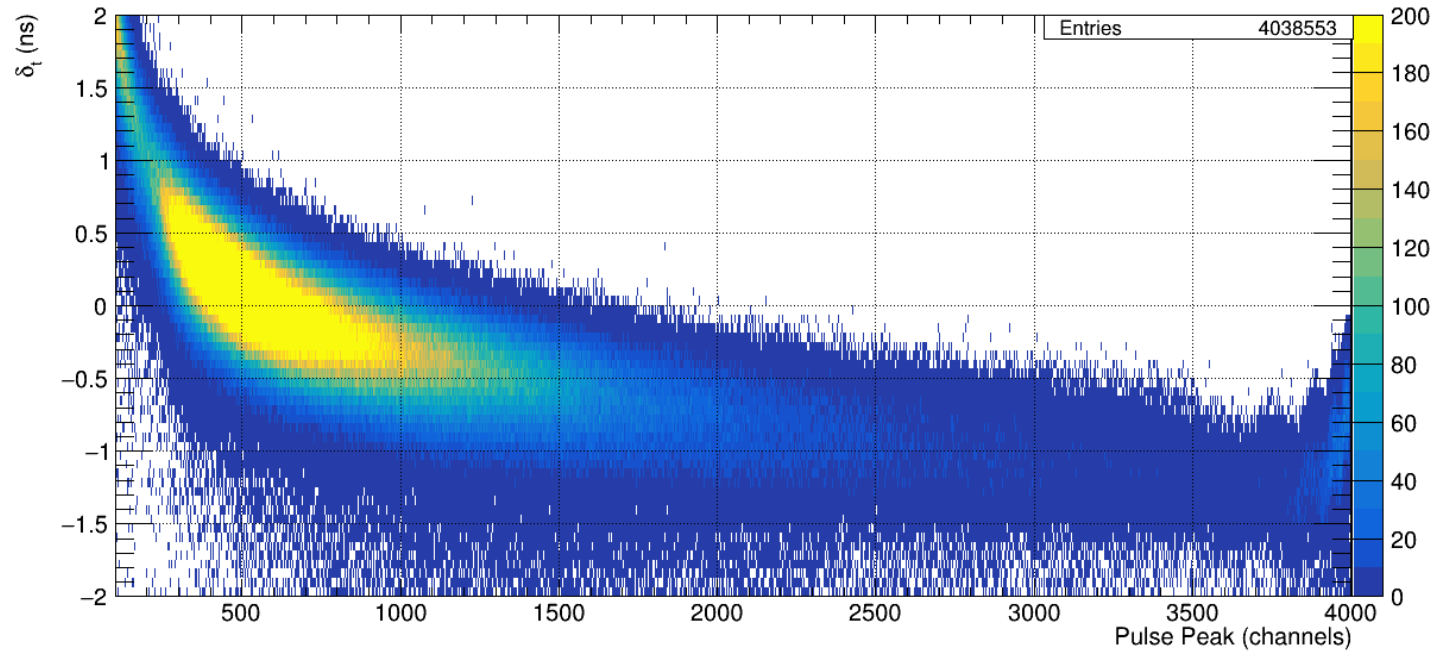
# Time Walk Corrections

Hit Time vs. Pulse Peak

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



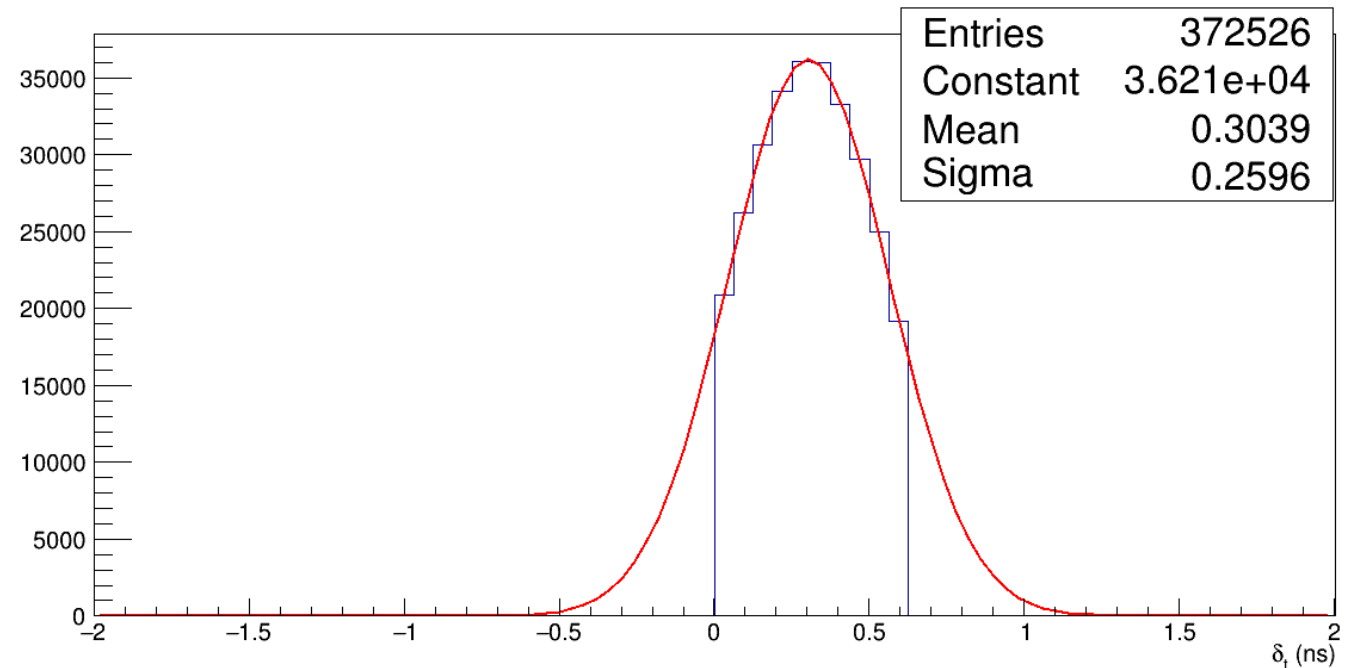
Sector 11



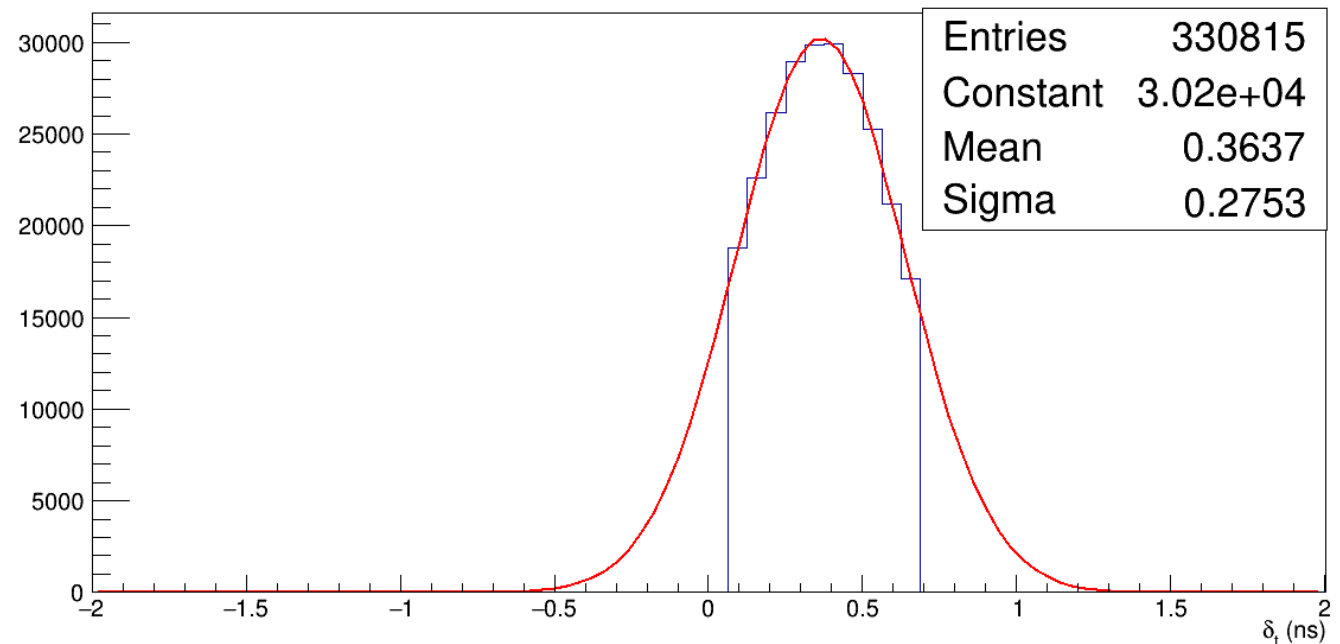
# Time Walk Corrections

Hit Time vs. Pulse Peak

- Start counter time for 100 PP bin intervals. Set bin content to zero if it is 50% or lower than the maximum bin content.
- Sector 1, pp300-pp400



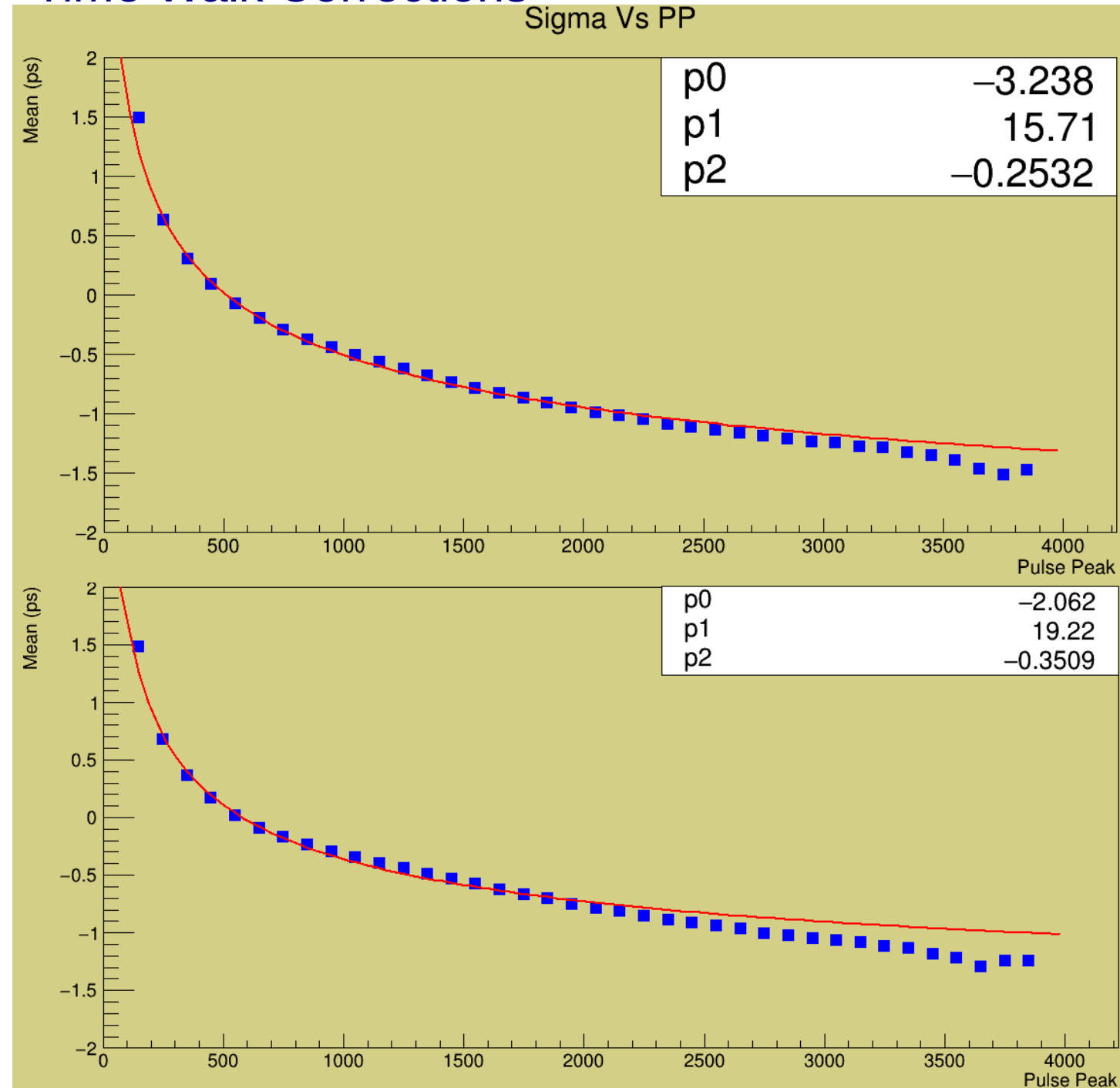
Sector 11, pp300-pp400



# Time Walk Corrections

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

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

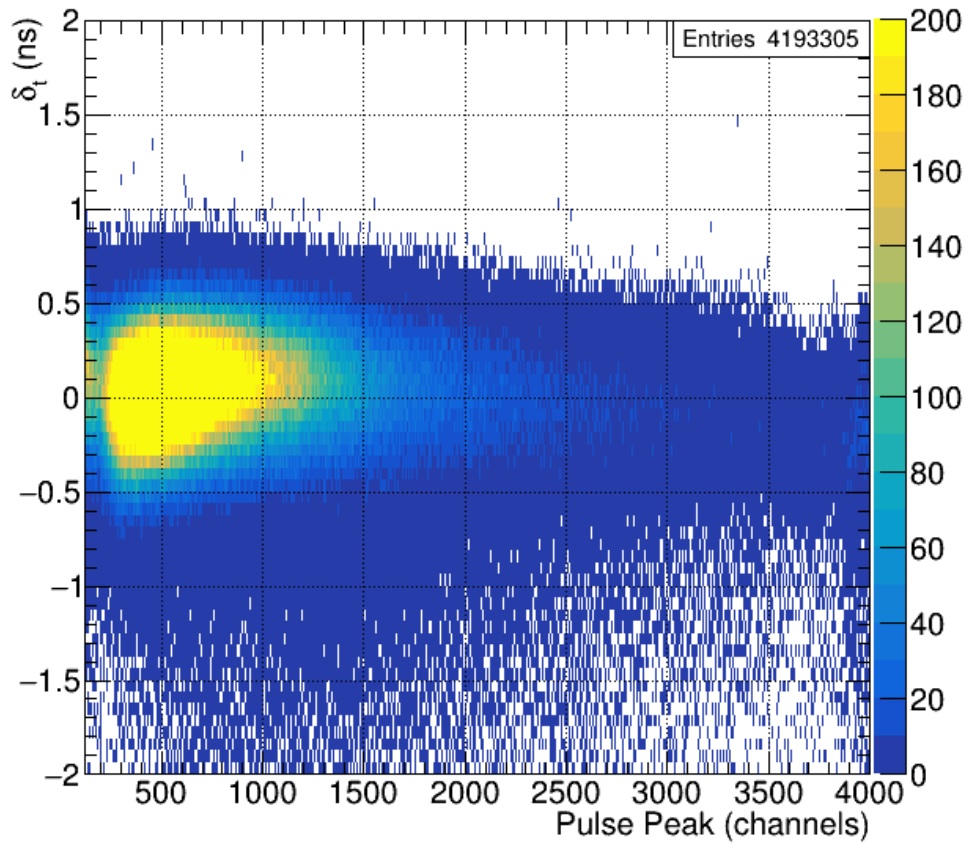


Sector 11

# Time Walk Corrections

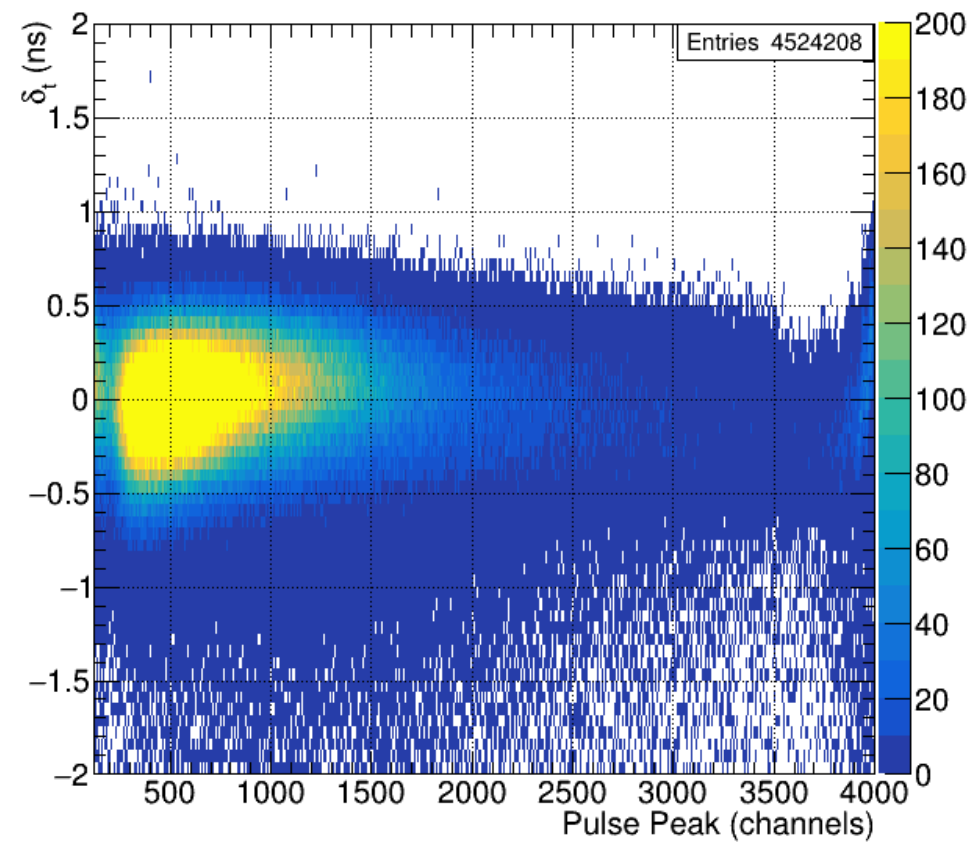
Sector 1

Hit Time vs. Pulse Peak

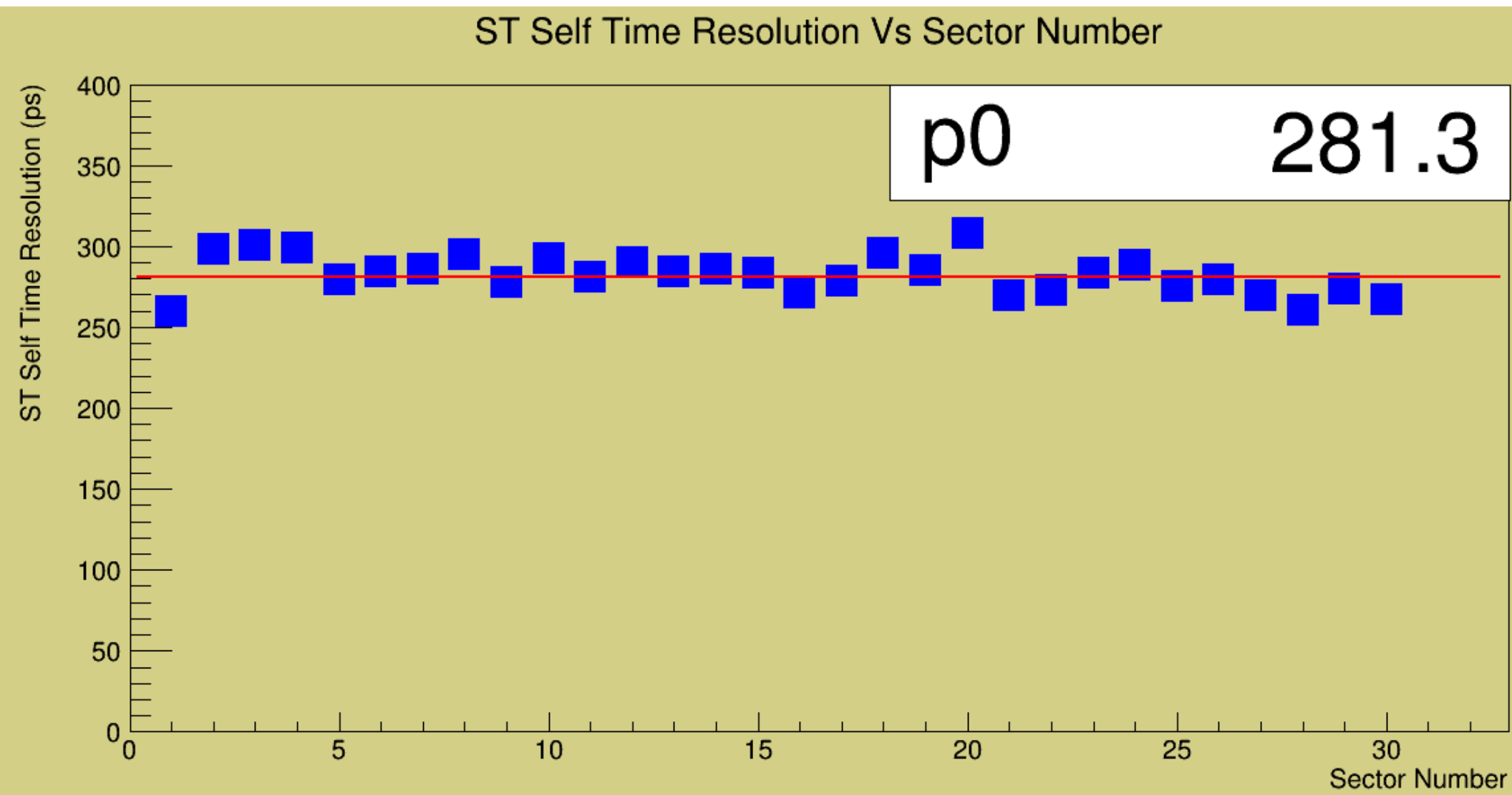


Sector 11

Hit Time vs. Pulse Peak



# Time Walk Corrections (50 % Cut)





# Time Walk Corrections (20 % & 80% Cut)

