

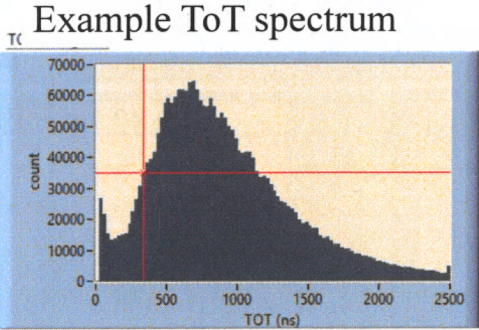
Some comments

Jan Timmermans

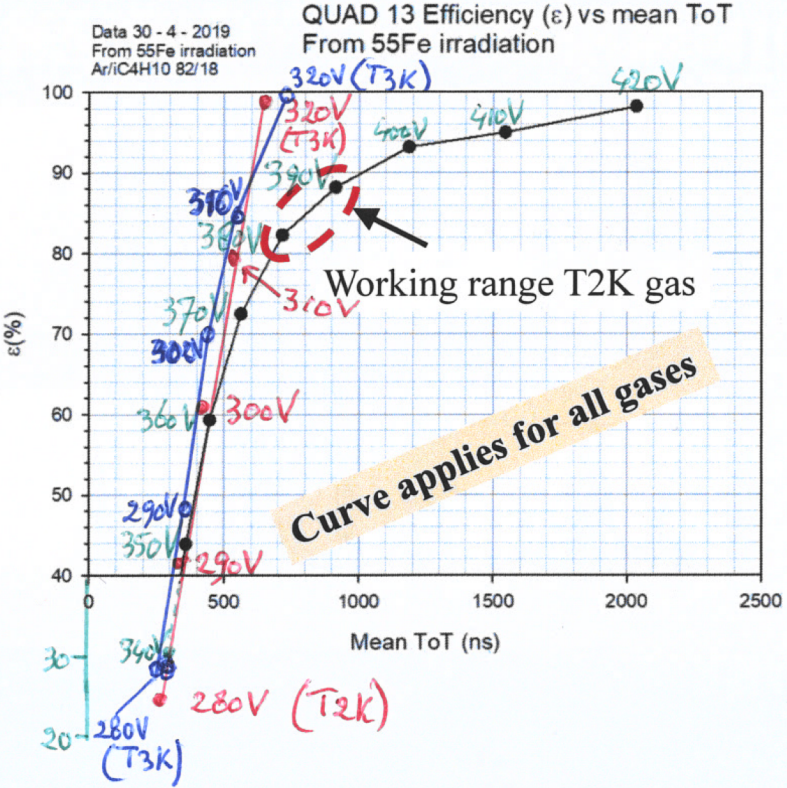
Updates to slide by Fred in previous (9 May 2019) meeting

Deduced from 18% iC4H10 measurements: Single electron efficiency vs mean ToT

- For Mean ToT = 1000 ns we have 90% SE efficiency
- During testbeam:
- Look at mean ToT => SE efficiency



Nikhef/Bonn LepCol meeting, Nikhef, May 6, 2019

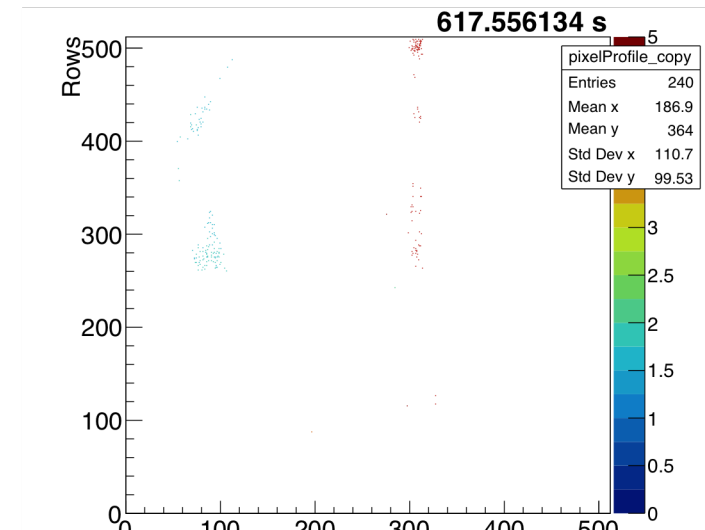
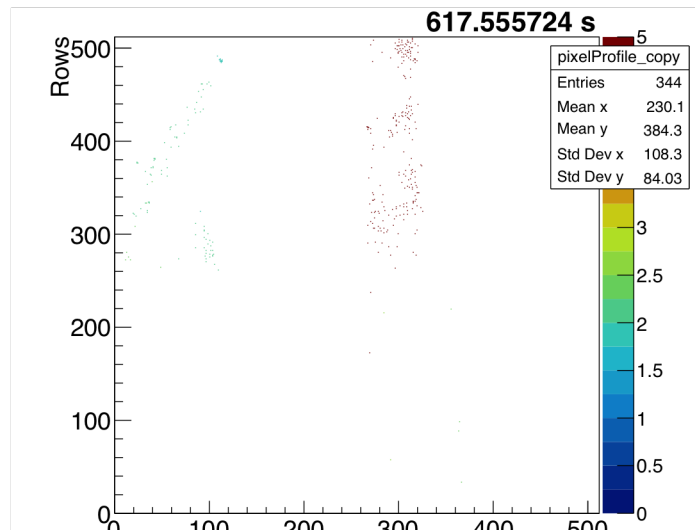
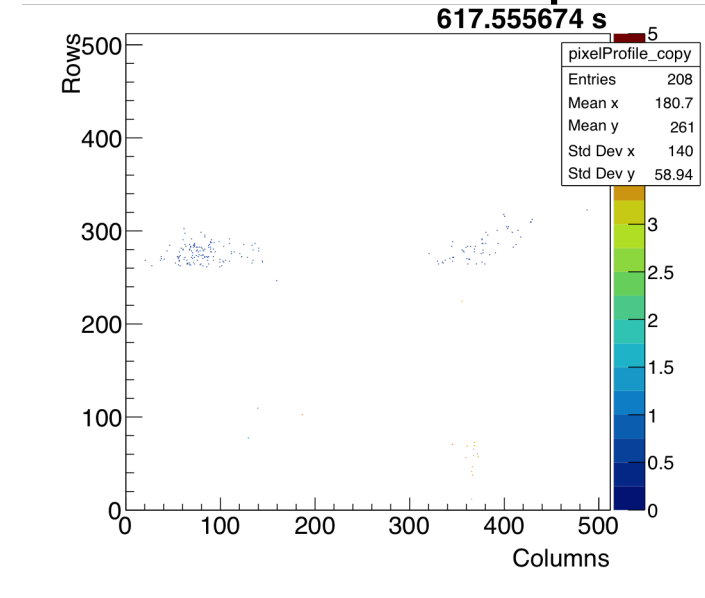
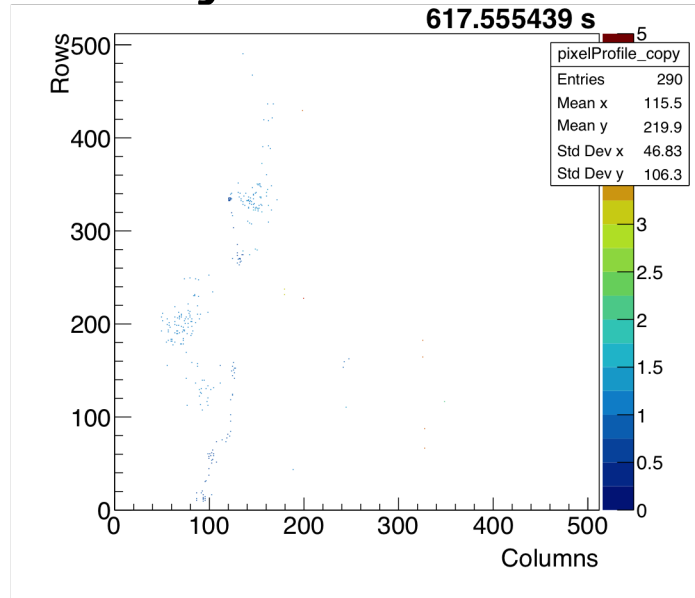


Event (frame) scanning; file prepared by Kees

(from last beam test of single quad in Bonn, October 2018)

- 5381 frames of 5 μ s with >200 hits (out of total of 500k frames (?))
 - Total time = 10.8 s
 - File starts with “micro-discharge” (?); 172 frames long, 68.4 ms
 - In total 8 of these micro-discharges of length \sim 68 and \sim 124 ms
- Only one block of 697 frames (total clock time 15.2 ms) with very clean tracks, which happen immediately after \sim 1 s of no beam between 2 successive spills
- After that tracks look much less clean; loss of hits, hits get clustered (detector physics or readout?); have impression ‘tracks’ mostly at L/R sides of quad. Detector not working properly because of high (10 kHz) rate!

4 events just before 1sec break between spills



4 events just after 1 sec spill break

