

Some diagrams from Quad laser setup

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Lepcol meeting

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Scan data

Registered data:

- stage positions
- trigger time
- hit time, ToT, row, col (for all 4 chips)

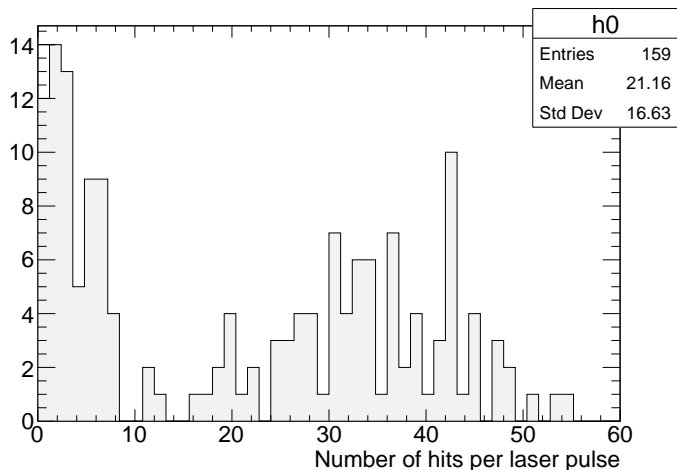
Define $t_{\text{drift}} = t_{\text{hit}} - t_{\text{trigger}}$

Consider all hits with a drift time between -500 ns and 500 ns

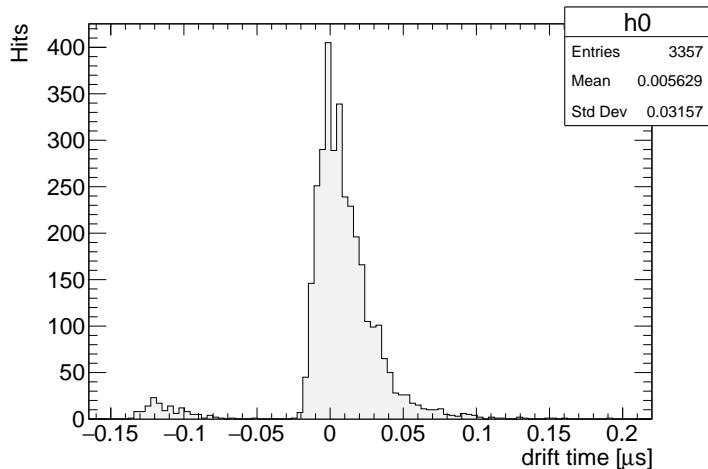
Data is from a scan on a 4×4 grid with 10 points per laser position

Number of hits per laser pulse

Including noise hits

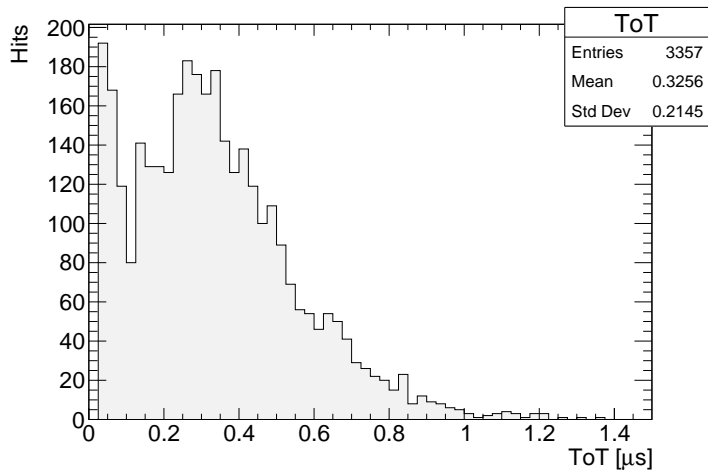


Drift time

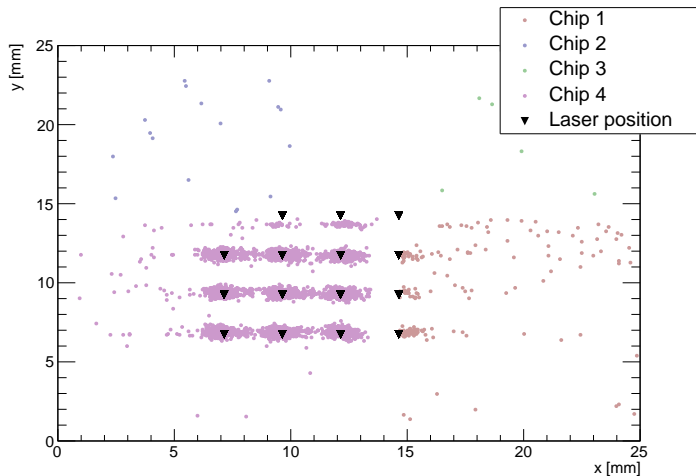


There is noise around -0.13

Time over Threshold



Hitmap



Position of chip 2 and 3 is unknown
A rough alignment of laser and chips

Hits on chip 4

Measured position - Expected position

