

Update on the Gain Uniformity test at TIF

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On Behalf of the CMS GEM collaboration

Latest troubleshooting :

- DAQ

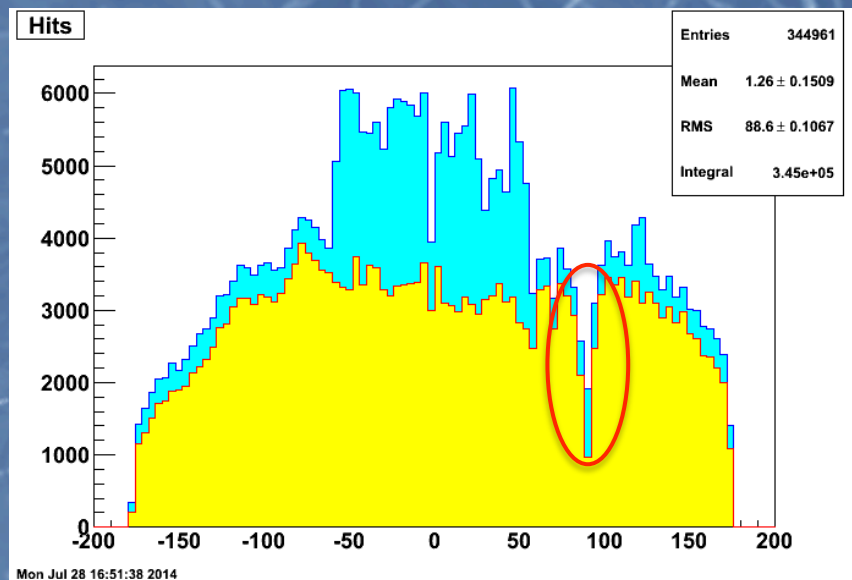
- Low rate (<10Hz)
 - Low statistic on FEC1
 - Systematic crash
- } Use parallel trigger lines → max rate 200Hz
- Synchronization → solved
(CTGF card or SRU)

→ Move the SRS outside the copper box

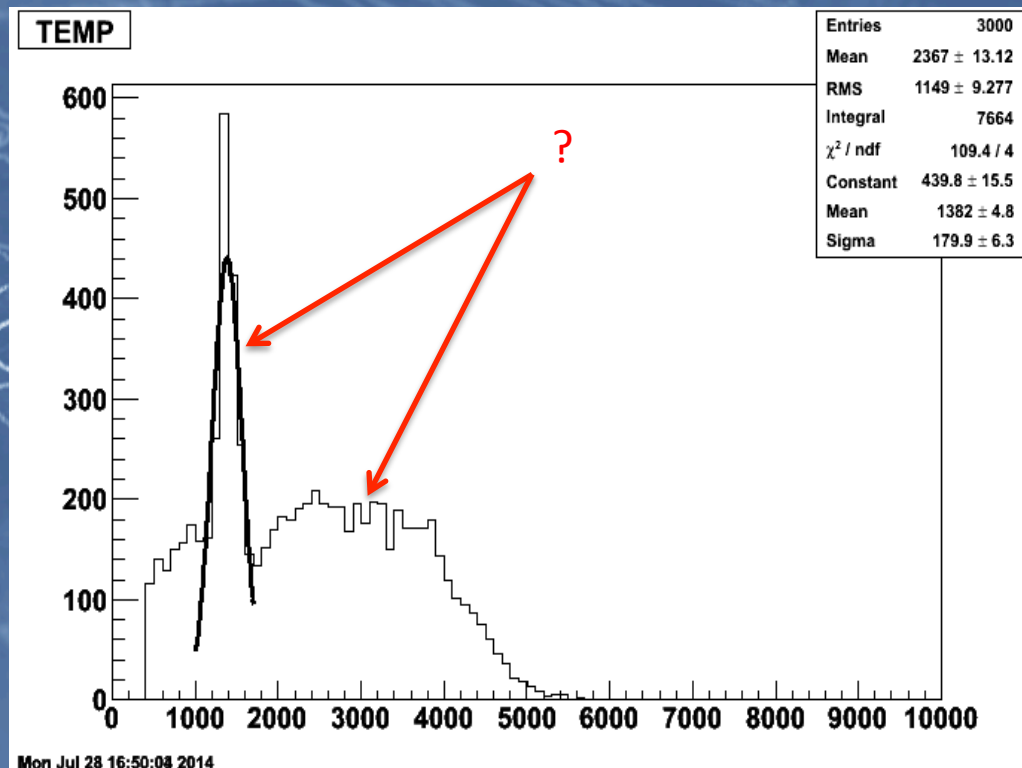
- Analysis

- time (several days/M events) → EventDump splitter → ? (ongoing)
- updated version → ongoing
- fine tuning → ongoing

Latest results (567 μ A 2850V Ar/CO₂:70/30)
→ Many things not understood yet



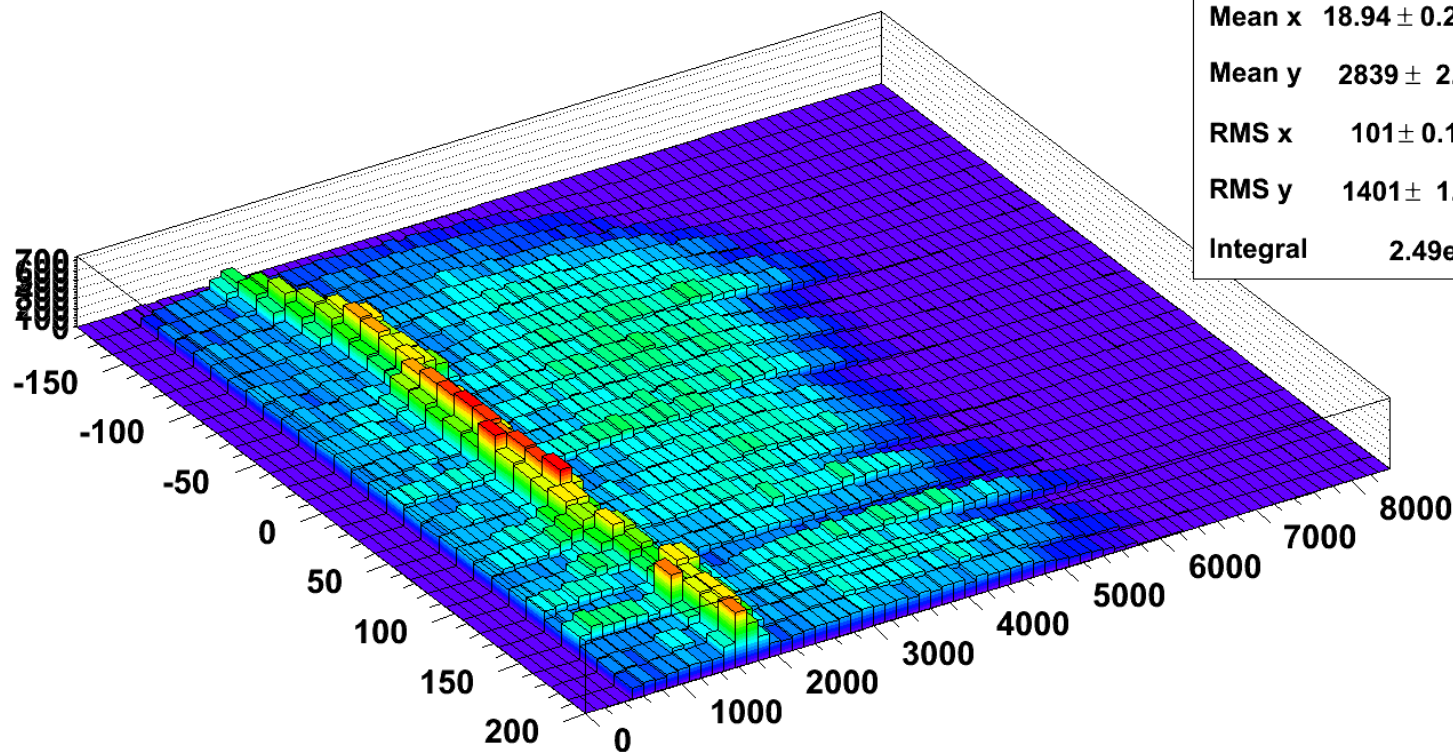
Hit map sector 6 (ADC cut)



Energy spectrum on sector 6

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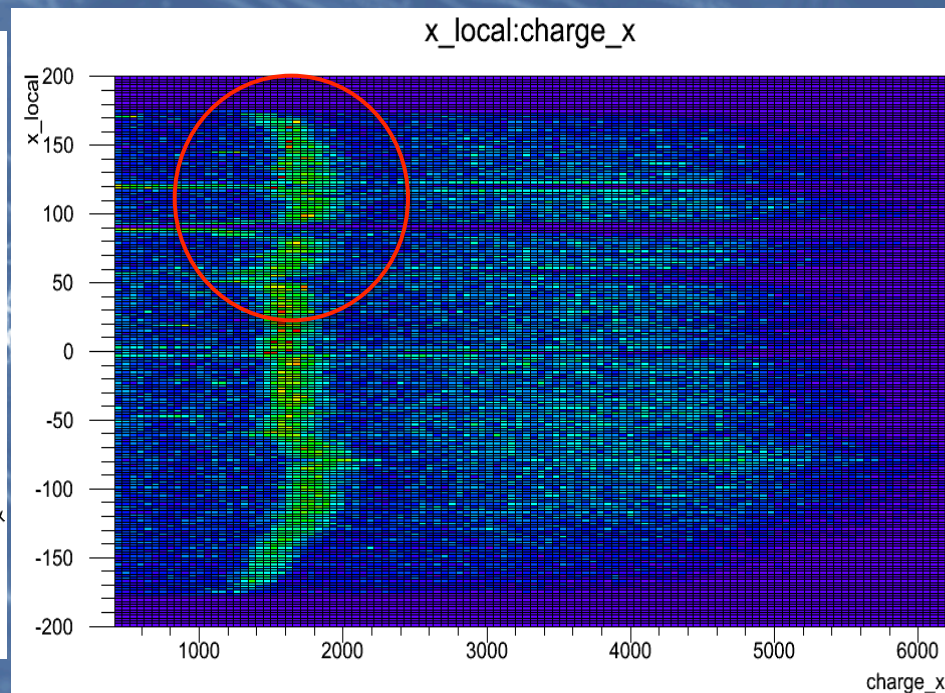
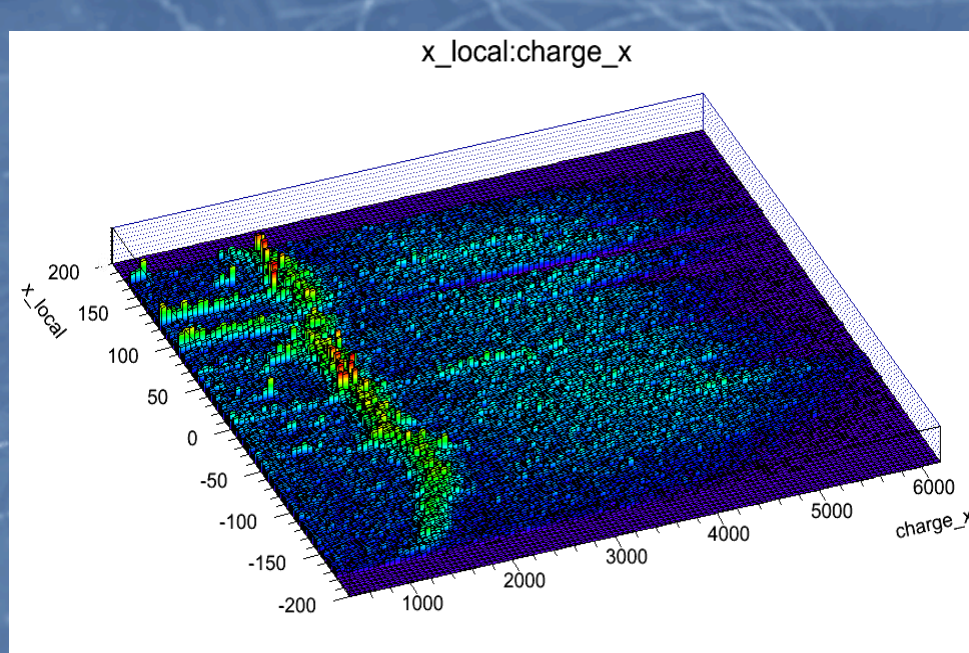
hChargeSector



Mon Jul 28 16:54:26 2014

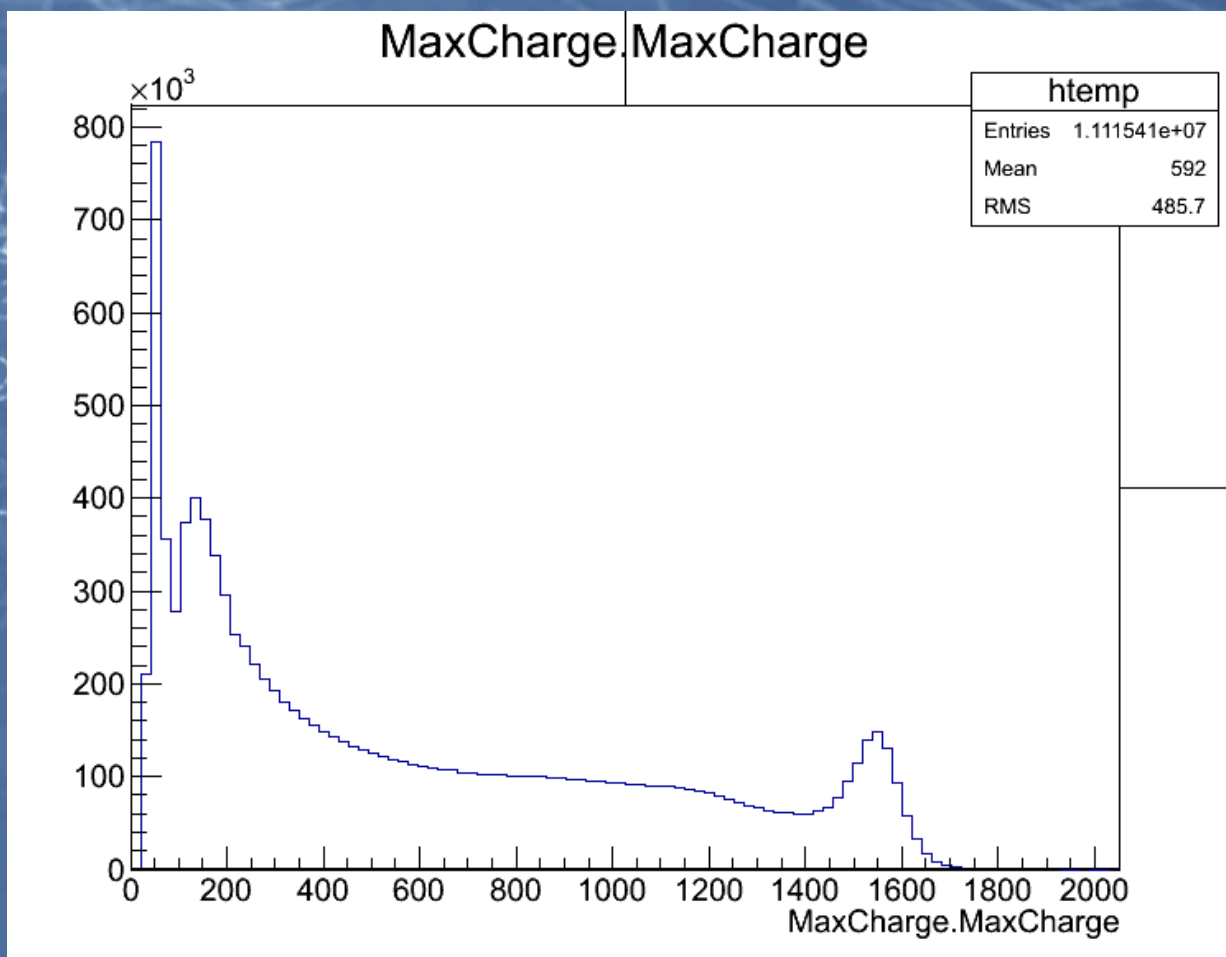
Spectrum Vs strip position (mm)

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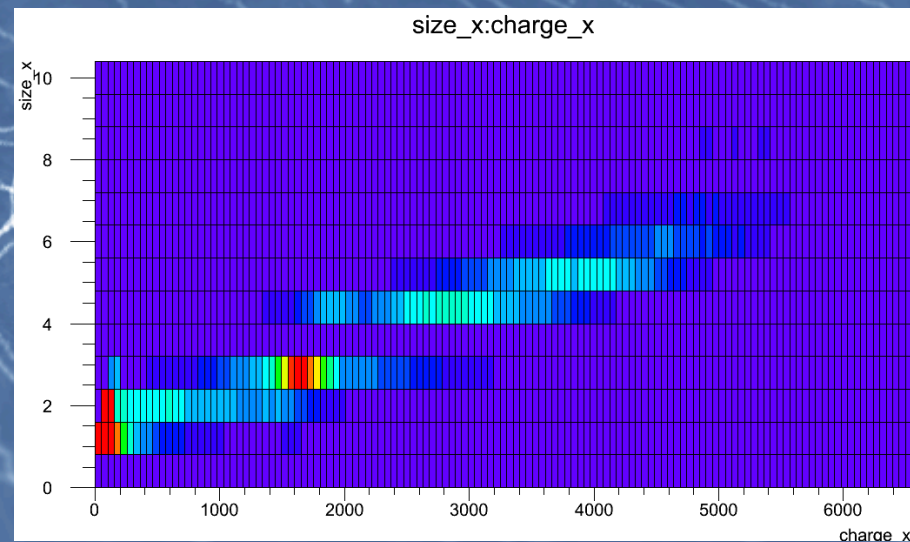
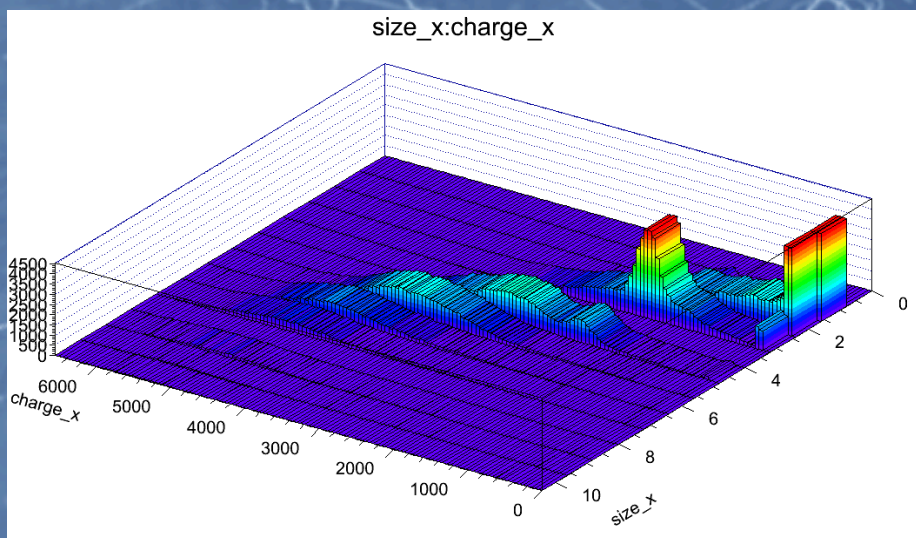


Spectrum Vs strip position (mm)

Tools for data quality monitoring



Tools for data quality monitoring



Charge per cluster Vs cluster size

Backup

1







