

TIM AMS Oct. 2006 - Tracker Data Reduction

General questions

❑ **Modification of thresholds for calibration and reduction on fly**

How to manage it ? Writing in memory ? Loading new program ?

List of parameters of thresholds

Calibration - sigma raw : low and high thresholds for dead and noisy channels

Calibration - sigma final : threshold for CN calculation event by event

Calibration - sigma final : low and high thresholds for dead and noisy channels (based on mediane by VA)

Calibration - non gaussian channels : threshold for channel value ($3 * \sigma_{final}$) and threshold for total (5%)

Calibration - high sigma raw : value ($n * \sigma_{raw}$) to define high level of sigma raw

❑ **How to calculate thresholds ?**

VA by VA (present solution) ? On ADC base ? On VA base but with extrapolation to ADC ?

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Reduction : next issues

❑ **New version of reduction with optimisation in cluster identification**
(last test results in simulation – 20th of oct. : **around 11 Kcycles #:-)**

❑ **Transport of information about power supply**

This information could be stored on the two upper bits of event length in output (TBD)

Calibration : next issue

❑ **Time of calculation for Calibration (4s)**

How to reduce time (TBD) ?

Schedule

❑ **November 2006** : development and test of a new release of calibration, test of new release of reduction, in coordination with all parts involved : Unige, Perugia and Montpellier