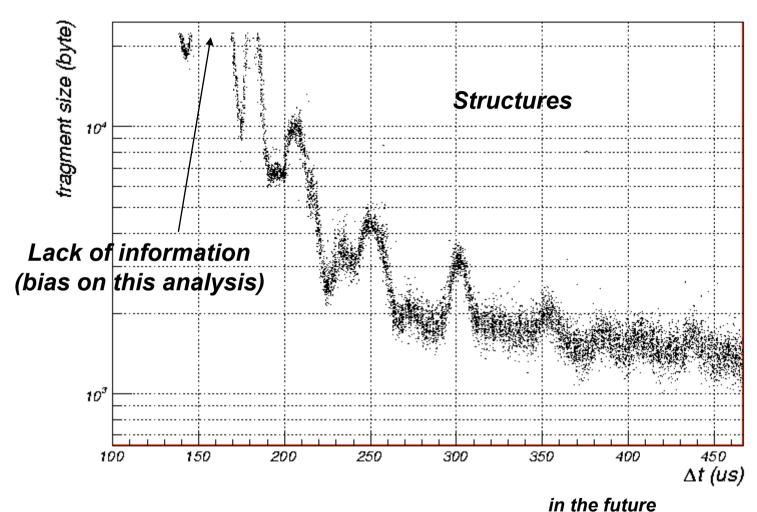
The Event Size Problem at Low ∆t:

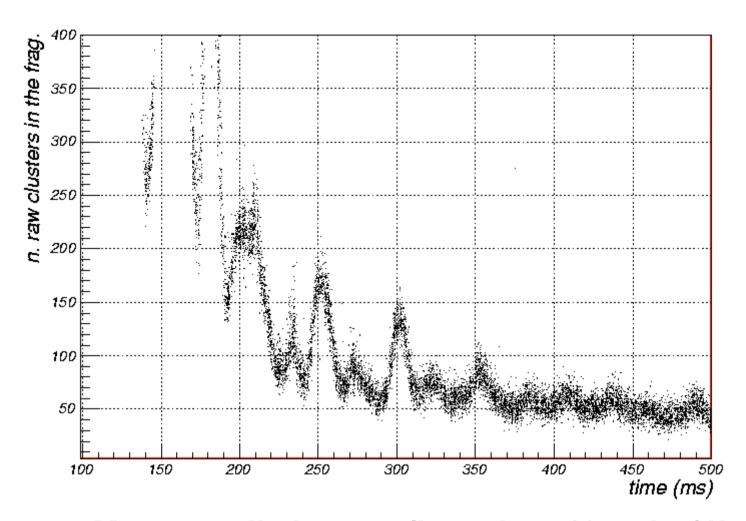
Full Tracker Cosmic Ray Data

Note: this is a 'work document': results are not complete nor final

Alberto / Giovanni / Paolo / Philipp

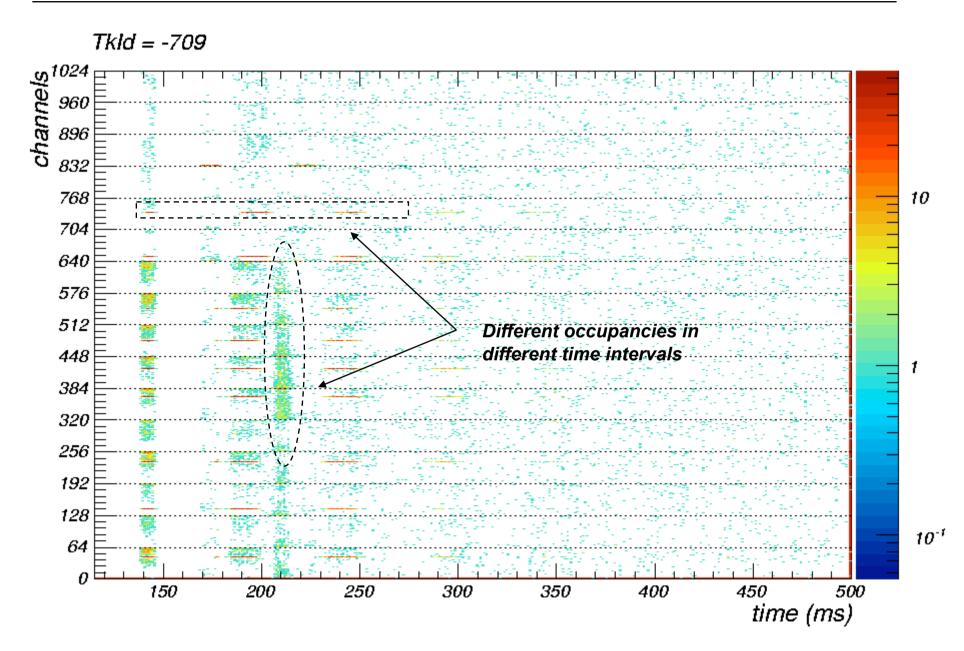


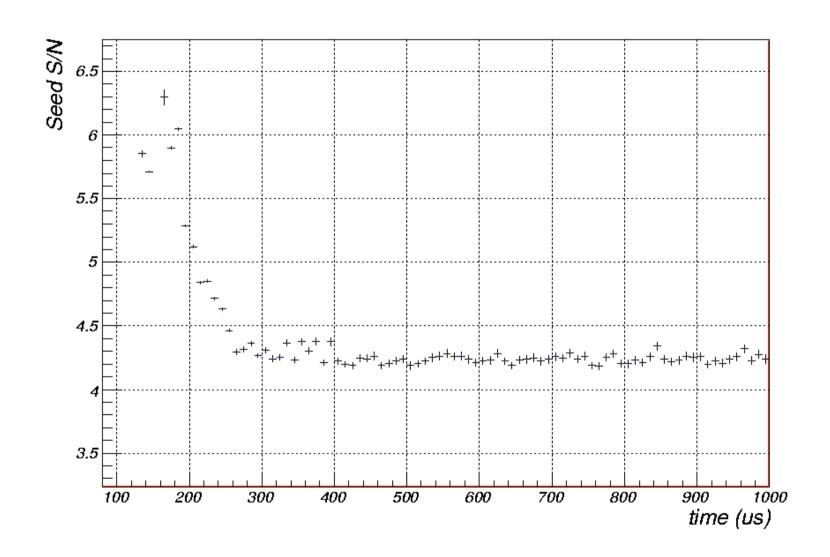
$$\Sigma_{\text{T-Crate=0,7}}$$
 { 2 + $\Sigma_{\text{Ladder=0,23}}$ { 2 + Σ_{Clus} CISize } } = 400 + Σ CISize_{T,L,C}



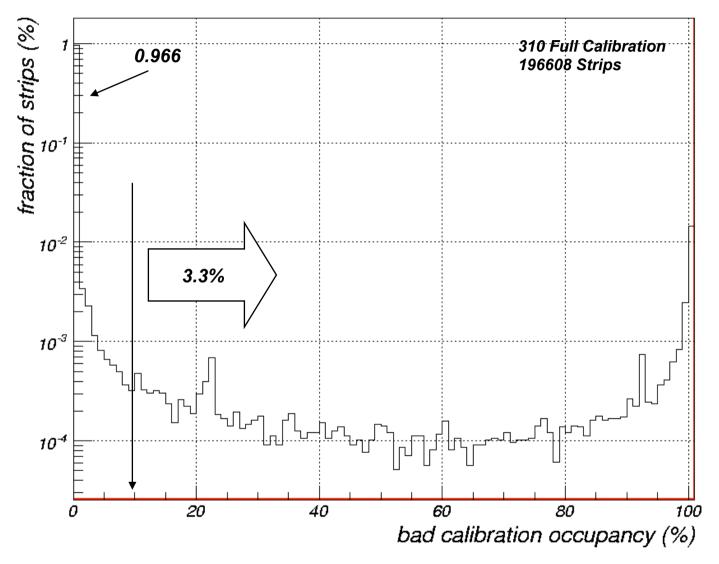
Many small clusters (less than 10 strips)!!
We have many seeds → Occupancy

Occupancy VS Delta T



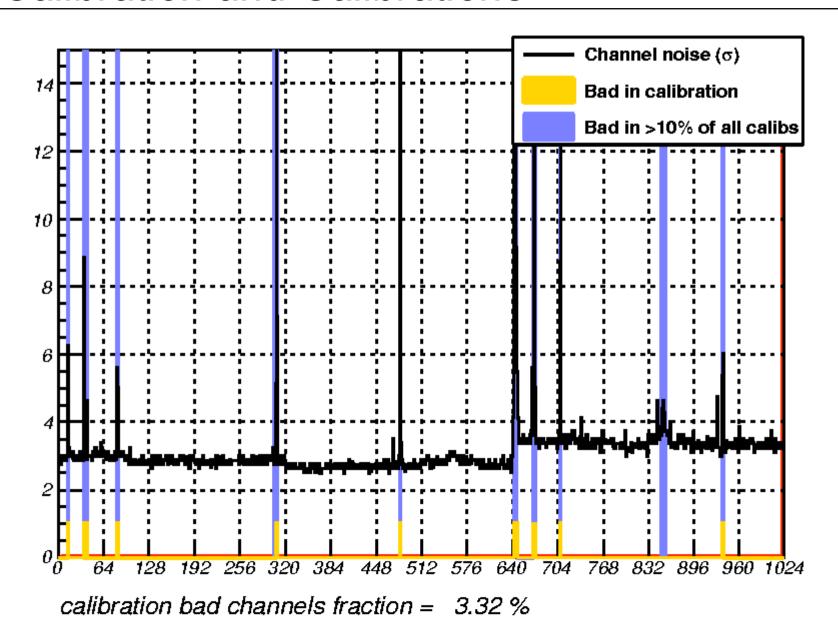


Bad Strip "Occupancy" in Calibration

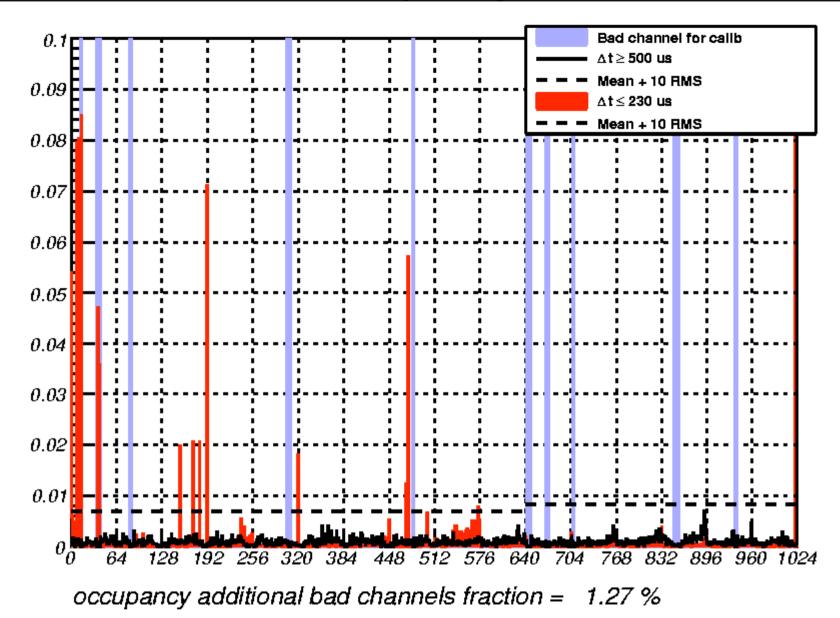


Each calibration has in mean 2.66 (0.06) % bad channels The 98 (1)% of these strips is evaluated as always bad (occupancy > 10%)

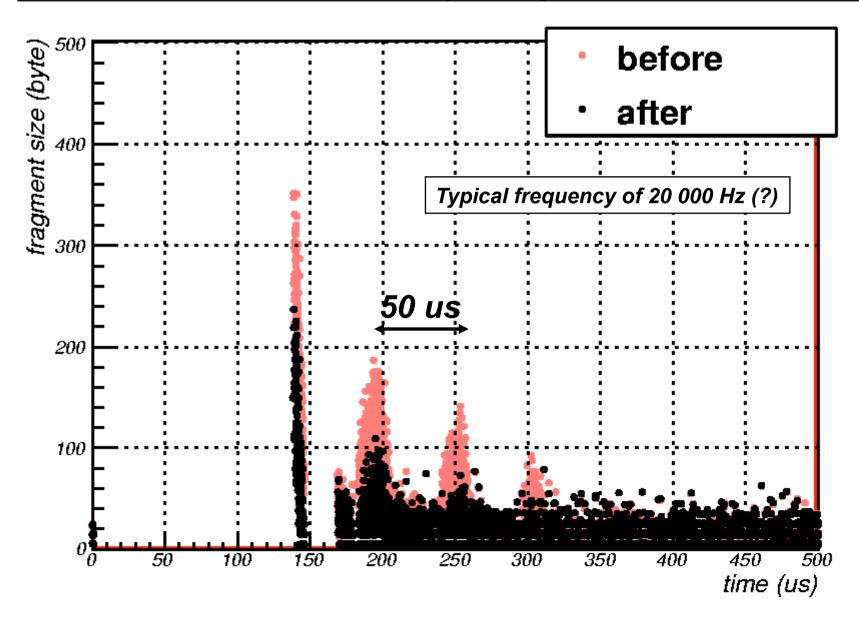
Calibration and Calibrations

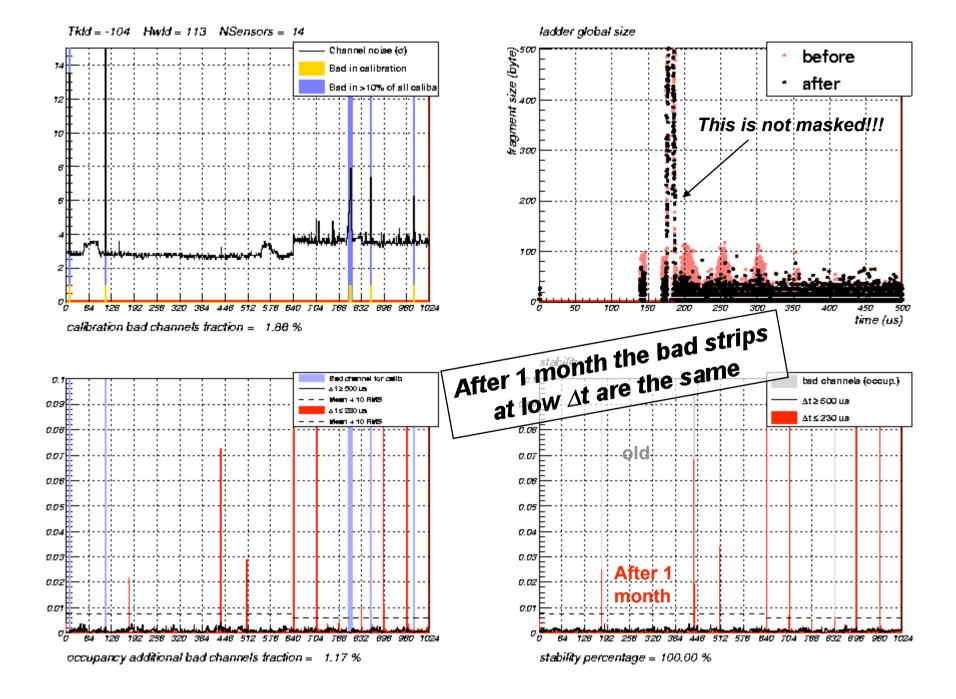


Calibration and Occupancy at Low \(\Delta t \)

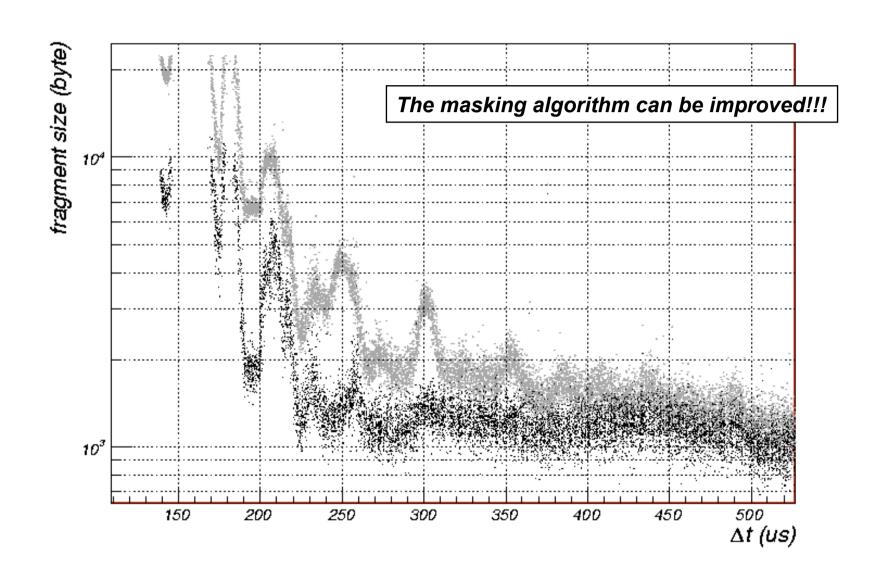


Ladder size after occupancy cut





Event Size After Occupancy at Low ∆t Cut



Conclusions at this stage of the work

- The Low Δt problem is caused by a small fraction of strips that have a bad behaviour at short Δt
- the new bad strips are:
 - not recognized in calibration
 - almost the same after one month
 - can be recognized with offline analysis
- more work in in progress in order to confirm the current results and to implement the proper actions to mitigate the problem