



Tracker Alignment Studies

AMS TIM April 2008

History(1)

- **October 2007** : detector installation
- **November 2007**
 - electronics installation on RAM jig
 - 3 FM, 1 QM without a TBS → only 12 ladders connected
- **December 2007**
 - detector cabling of the first half (RAM)
 - Half-detector test
- **January 2008**
 - Set up the DAQ procedures
 - Data taking with half of the tracker
 - Problems with errors on DAQ

History(2)

- **February 2008**

- Fix the DAQ errors (bug in Tracker initialization)
- Data taking with half of the Tracker

- **March 16,21 2008**

- detector cabling of second half (WAKE)

- **April 1,9 2008**

- Setup the GSTTCS
- Take some data with (almost) all the tracker

More details in the splinter meeting this afternoon ...
P.Zuccon et al,

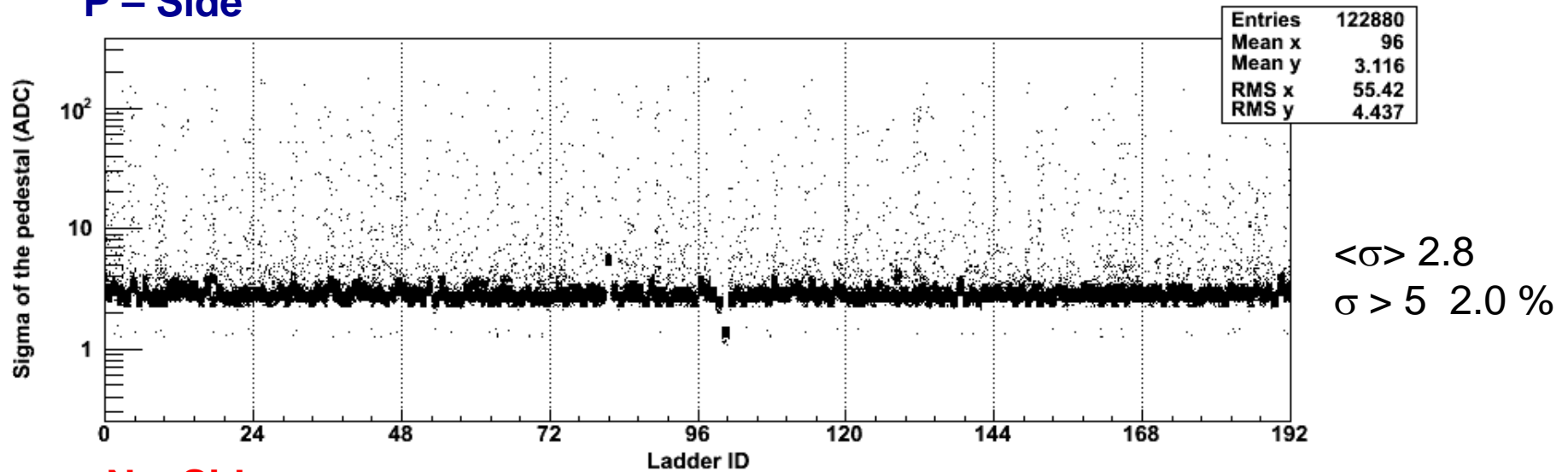
- **April 13 2008**

- Installation of the missing TBS and cabling of the last 12 ladders

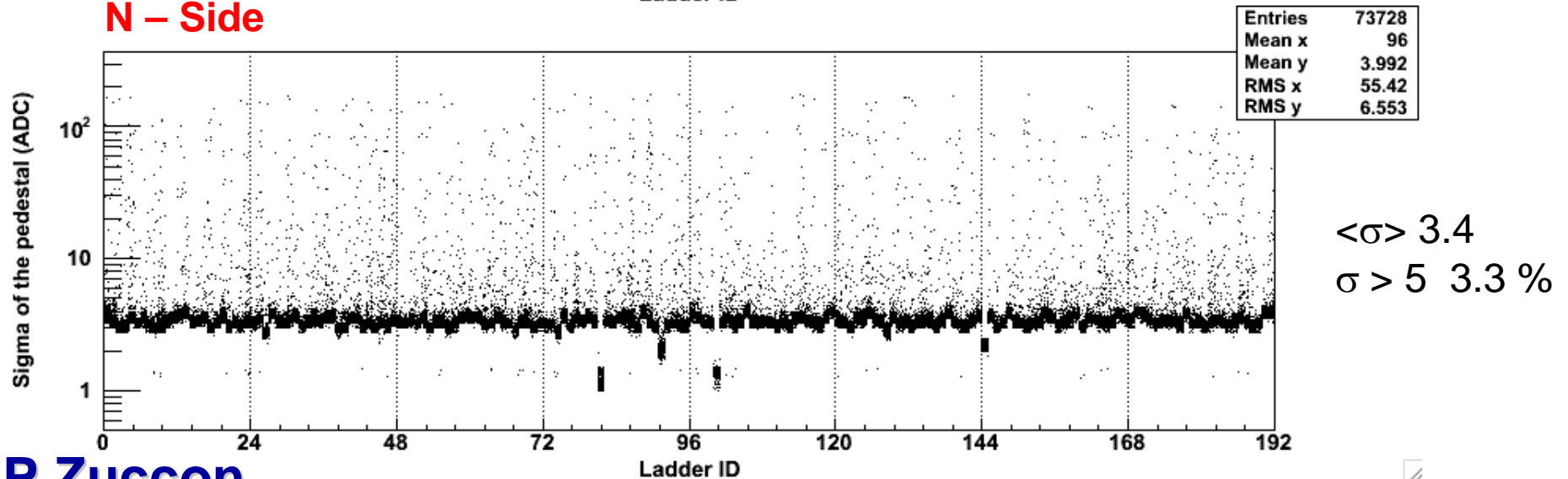
191/192 Ladders connected (2 with N side disconnected)
1/192 To be tested this week

Tracker Calibrations

P – Side



N – Side



P.Zuccon

Ongoing studies :

- DAQ Optimization : @ the AMS level
@ the tracker level
- Calibrations : noise, dead channels....
- Signal : S/N, dependence on track inclination,...
- Alignment
 - check of alignment procedures with cosmic muons
 - MC studies to estimate alignment procedures
with AMS on orbit