



Charged particle detector status

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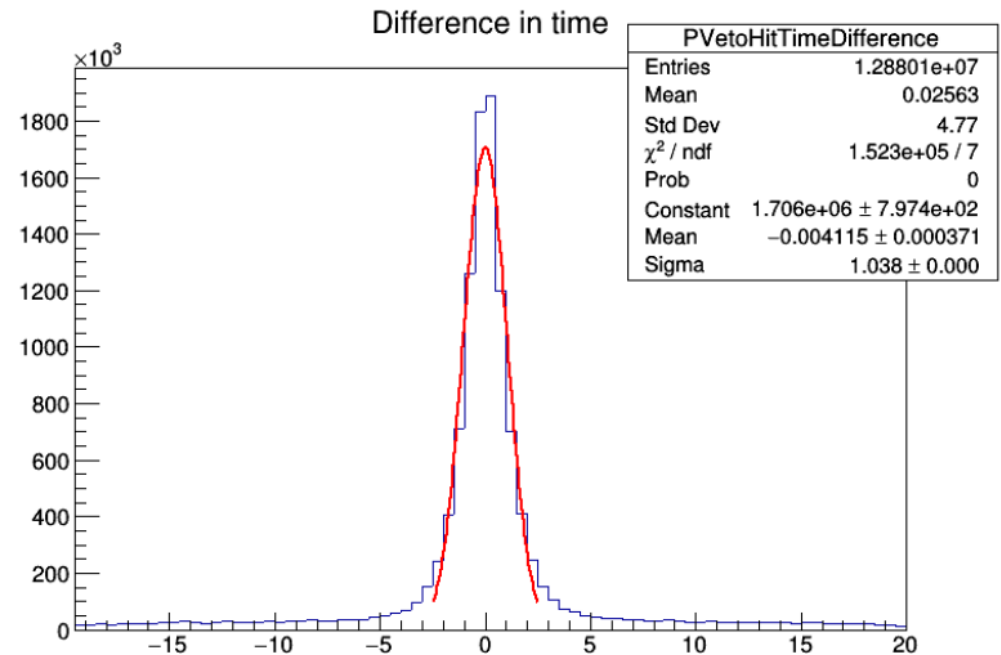
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Operation

- Stable operation from the start of the run
- No major issues
 - SiPM temperature of the order of 40 degrees...
 - However no failed channel
- Intervention to remove 6 scintillator bars
 - Motivation: to keep the background on the rest of the detectors at reasonable level
 - From VETO point of view could have been removed in the offline analysis
 - But they played an important role for the initial beam tuning

Calibration

- Only time alignment considered
- Using adjacent fired bars
- Expected trend on the T0s on individual channels
 - Board/trigger group changes visible
 - Apart from the first one...
- Still done manually
 - Running on few selected files



Considerations

- Necessary steps
 - Since the calibration is not available for all the data, an analysis on each RAW data file is necessary
 - Time evolution of the T0s
- Quality checks
 - Not performed so far
 - Data certification not performed, no quality variables defined
- Reconstruction and Clustering

Current activities

- Most of the calibration efforts executed by Rado
 - With minor auxiliary help
- Current focus → “Successful” data taking
 - “successful” = recorded data OR recorded good data...
- A time dedicated for automation of part of the calibration will definitely pay off!
- DATA access: difficult external access to data
 - Mainly running on data locally at l0padme3
 - GRID and VO

Conclusions

- Still a reasonable amount of work in front to get to a reasonable physics output from the VETOs
 - Desire: Time, Momentum, Position
 - Requires: T0 calibration, Clustering
- Few people joining the VETO group
 - However they are at bachelor level with small expertise in programming
 - But could take care of detector performance monitoring, once the tools are prepared together with them