Operation and Long Term Performance TASK

MAIN GOAL:

understand the behaviour of the detectors in time (SD/FD/SSD) and if their evolution affects physics analysis

Thursday 17th of May, at 14 o'clock CEST

First online Meeting

(R.Caruso & I.Maris)

Operation and Long Term Performance for the

Fluorescence Detector

- FD Operations

- FD Long Term Performances

- HEAT Long Term Performances

- Hybrid

- AugerPrime (?)

FD OPERATIONS

People: R.Smida, M.Del Rio, shifters, PAO staff

- FD status on site and during the shifts: weather conditions, quality of electrical systems, status of the different control systems on site, monitoring of failures, events or accidents during or out of the shifts;

- FD shifts: planning, training of the shifters, quality, coordination and management of the shift in situ, electronic loogbook and reports

- FD remote shifts!

FD Long Term Performance

People: C.Di Giulio, L.Perrone, G.Salina, F.Salamida,

R.Smida, V.Verzi, etc.etc

- Detector stability in time:

behaviour and performances of PMTs, mirrors, filters and different parts of the telescopes (Front End and Data Aquisition electronics, ...), monitoring of the background signal (night sky background and electronic noise), FD Absolute and Relative Calibration

- Data quality

- Status of the FD Databases: calibration and atmosphere

- Energy scale stability

FD Long Term Performance

People: J.Bellido, M.Unger, etc.etc

- **HEAT stability in time:**

behaviour and performances of PMTs, mirrors, filters and different partsof the telescopes (Front End and Data Aquisition electronics, …), monitoring of the background signal (night sky background and electronic noise), FD Absolute and Relative Calibration

- **Data quality**

- **Cross Calibration:** HEAT-CO energy difference

Hybrid Long Term Performance

- On time

- Reconstructed hybrid rate

- Energy scale stability

AugerPrime and FD Long Term Performance?

(People: R. Smida, etc.)

- How the "Extended FD Operations" in the framework of AugerPrime can affect the FD Long Term Performances?

- Monitoring and studies