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ATLAS Tile Calorimeter on-line monitoring system based on the Event Filter

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ATLAS Tile Calorimeter detector (TileCal) is presently involved in an intense phase of commissioning with cosmic rays and subsystems integration. Various monitoring programs have been developed at different level of the data flow to tune the set-up of the detector running conditions and to provide a fast and reliable assessment of the data quality.
The presentation will focus on the on-line monitoring tools employed during TileCal detector commissioning and integration tests with cosmic rays and in particular on the monitoring system integrated in the highest level of the Trigger, the Event Filter (EF).
The key feature of EF monitoring is the capability of performing detector and data quality control on the complete physics event at the trigger level, hence before it is stored on disk. In the on-line data flow, this is the only monitoring system in ATLAS capable of giving a comprehensive event quality feedback.
The presentation will also show some monitoring results of the integration tests with other sub-detectors and performances and future upgrades of the current implementation.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

Atlas TileCal project

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