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The Online Observation Quality System for the ASTRI Mini-Array

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for the ASTRI Project

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The ASTRI MA and the OOQS

- The ASTRI Mini-Array is an INAF project aiming to construct and operate an experiment to study gamma-ray sources emitting very high energy in the TeV spectral band and perform stellar intensity interferometry. [see Antonelli talk n.832].

- The ASTRI MA project consists of an array of nine dual-mirror Imaging Atmospheric Cherenkov Telescopes

- The Online Observation Quality System (OOQS) is a software system, part of the Supervisory Control and Data Acquisition system (SCADA), that aims to verify the online data quality during the observations.

- The OOQS receives input data from the Array Data Acquisition System (ADAS), the system designated to acquire and manage the raw data from Cherenkov cameras and Stellar Intensity Interferometry Instruments.

- Anomaly conditions detected during the quality check analyses are sent to the Alarm System and the Central Control System to take corrective action.

The OOQS Architecture

- The OOQS architecture includes the following software components: OOQS Master, OOQS Manager, Cherenkov Camera Data Quality Checker, SI3 Data Quality Checker