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Monitoring and Performance of AugerPrime

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The Pierre Auger Observatory upgrade, AugerPrime, is a multi-hybrid system designed to improve the sensitivity and precision of ultra-high-energy cosmic ray measurements. It includes scintillator detectors positioned both atop the enhanced Water-Cherenkov detectors and buried nearby for direct muon measurements, along with radio and fluorescence detectors. In this contribution, we present an overview of the monitoring tools developed for all AugerPrime components, focusing on real-time performance assessment and long-term stability metrics. By continuously tracking key parameters, we can identify potential issues early, enabling timely interventions and improving overall data quality. These strategies are crucial for maintaining the long-term reliability of the Observatory's measurements and providing high-quality data for cosmic ray research in the coming decades.

Collaboration(s)

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