

The MURAVES muon telescope: technology and expected performances.

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Abstract:

The MURAVES detector has been designed on the base of the experience matured during the INFN R&D program MU-RAY, devoted to the realization of a new generation of telescopes for muon radiography applications. Improved performances, as spatial and time resolutions, have been achieved with respect to the previous generations of detectors. In particular the measurement of the time of the passage of the muon through the detector improve the background rejection allowing the measurement of muon direction. Power consumption and transportability are such as to preserve the telescope use in volcanic areas.

In the talk the detector technology and the expected performances will be described.