

Performance of the TALE infill experiment as a TA-TALE extension down to the PeV region

The TALE-infill experiment is a further extension of TA-TALE detectors to observe low-energy cosmic rays down to the PeV region. TALE-infill utilizes the existing TALE-FD detectors, and newly developed “infill” surface detectors with 100m and 200m spacing. The new detectors will be deployed at the TALE site in early 2023. We’ll present the design and performance of the TALE-infill array in the hybrid mode, in terms of the resolutions and biases of arrival direction, energy, and Xmax.

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