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Experimental cosmic ray studies by the sub-array of the Alborz-I array

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The first phase of the Alborz Observatory Array (Alborz-I) is designed to have 20 scintillation detectors to study the cosmic ray spectrum in the energy range of 10^{12} eV to 10^{16} eV. In order to collect data under stable environmental conditions, a sub-array consists of 5 plastic scintillation detectors on a pentagon with side of 5 m similar to the central cluster of the Alborz-I have been operational since February 2014. This paper studies angular distribution of detected showers and the angular resolution of the sub-array with comparing to the simulated results.

Collaboration

– not specified –

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