

Design and performances of the ED and the prototype array for LHAASO-KM2A

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This paper describes the design optimization and performances of Electromagnetic particle Detector (ED) used in one km square extensive air shower array (KM2A) in LHAASO project. A 42-ED prototype array was set up at the Yangbajing cosmic ray observatory and has been in stable operation for two years. The performances of the prototype array are studied through hybrid observation of cosmic ray showers with the ARGO-YBJ experiment. The long term stability of the ED and the array are also presented.

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