

The BATATA hodoscope

Abstract content

Muons, photons, electrons and positrons are the most abundant secondaries of cosmic rays at ground level. While muons penetrate deeply in almost straight paths, highly energetic γ and e^\pm develop small underground showers which are stopped in first few meters. This difference may be used to distinguish footprints on buried detectors with x-y sensitivity. In this work we present fast and robust simulations techniques to emulate realistically the response of the BATATA hodoscope as well as its testing, building and quality assessment protocols.

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