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Results from the Hellenic Open University extensive air shower array

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The Hellenic Open University extensive air shower array is a small scale hybrid detection system operating in urban environment with strong human made electromagnetic noise. In this work we present the latest results of the data analysis concerning the estimation of the shower parameters using the RF system. In a recent layout of the array, 4 RF antennas were operating receiving a common trigger of a single autonomous station of 3 particle detectors. These data are compared with the simulation predictions investigating if a single antenna is capable for the estimation of the shower axis angular direction as well as the capability of this geometry to reconstruct the shower core, the energy and the mass of the primary particle.

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