

HEP2023 - 40th Conference on Recent Developments in High Energy Physics and Cosmology, Ioannina, Greece



Contribution ID: 77

Type: **not specified**

Simulations studies for the RF performance of the Astroneu II Array

Wednesday 5 April 2023 17:20 (20 minutes)

Astroneu is an array for extensive air shower detection which is developed and operated in the Hellenic Open University campus near the city of Patras, Greece. In the first stage of operation (Astroneu I) it consisted of 9 scintillators detectors and 6 antennas, which were arranged in 3 stations. The Astroneu array is entering the next phase of operation, where 48 particle detectors and 16 RF antennas are about to be installed. In this work we estimate the efficiency of the new antenna array which depends on the topology as well as on various parameters of the air shower, such as the energy, direction of arrival and mass of the primary particle.

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Session Classification: Parallel (Experiment)