

Validating a fast analytic code for radio emission calculations from parametrized air showers

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To be able to deduce the electric fields from the radio footprint we have developed a macroscopic code that uses a parametrized shower profile. We compare the results for radio emission of microscopic CORSIKA/CoREAS simulation with those of the macroscopic calculation to optimize the parametrization. Particular attention is given to polarization observables, characterized by the Stokes parameters.

Summary

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