Contribution ID: 19 Type: not specified

## Development of efficiency models for cosmic-ray radio instruments

Thursday, March 26, 2020 12:00 PM (30 minutes)

Estimation of the efficiency is one of the crucial components for a comprehensive study of the cosmic rays with sparse radio-arrays. The direct estimation of this quantity with the Monte-Carlo approach is computationally demanding. Thus, we develop models for efficiency estimation based on the parametrizations of the radiation footprint. The details and recent updates of this work will be presented.

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Session Classification: Air-shower detectors