



Contribution ID: 48

Type: **not specified**

Preparations for radio air-shower studies with the Murchison Widefield Array

Friday, June 15, 2018 3:00 PM (20 minutes)

The Murchison Widefield Array (MWA) is a low-frequency (70-300 MHz) aperture-array radio telescope that has the potential to study geomagnetic radio emission from cosmic-ray air showers commensally with its regular astronomical observations. This mode of operation has proven highly effective with the LOFAR telescope, and its implementation with the MWA is a vital step towards its future use with the Square Kilometre Array at the same site. Preparatory work has been carried out for this application of the MWA, including radio-triggered engineering tests, and the development of a particle-detector system for particle-triggered observations in the near future.

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Session Classification: Future and perspectives