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Self-triggered detection of cosmic ray air showers at Auger with the RAuger experiment.

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RAuger is a self-triggered and fully autonomous cosmic ray radio detection experiment installed at the Surface Detector (SD) of the Pierre Auger Observatory. Operating since July 2007, we have obtained more than 60 coincidences with Auger leading to a skymap (azimuth, zenith) showing evidence for a geomagnetic effect in the electric field emission mechanism. We also have obtained a three-fold coincidence with Auger allowing a full reconstruction of the geometry and energy estimation, in excellent agreement with the Auger SD reconstruction. These results will be of prime interest for the Auger Engineering Radio Array (AERA) project in which we are involved.

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Classification de Session: Auger and the radio projects, reviews and results