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## Data Acquisition, Triggering, and Filtering at the Auger Engineering Radio Array

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The Auger Engineering Radio Array (AERA) is currently detecting cosmic rays of energies at and above  $10^{17}$  eV at the Pierre Auger Observatory, by triggering on the radio emission produced in the associated air showers. Unlike other air shower detection methods, the radio-detection technique must cope with a significant background of man-made radio-frequency interference, but can provide information on shower development with a high duty cycle. We discuss our techniques to handle the challenges of self-triggered radio detection in a low-power autonomous array, including triggering and filtering algorithms, data acquisition design, and communication systems.

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