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## **Design and performances of a fully autonomous antenna for radio detection of extensive air showers**

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### **Abstract content**

The use of the radio-detection technique in a wide area cosmic-ray detector requires autonomous antenna stations, in terms of power feeding, triggering and data transmission. A prototype has been tested at the Nançay Radio Observatory (France). It uses the broadband (1-200 MHz) active dipoles installed on the CODALEMA experiment (see other contributions in this conference), together with a solar power supply, an independent trigger electronics and a dedicated communication system. We present here the complete setup and the performances of this new kind of detector.

### **If this papers is presented for a collaboration, please specify the collaboration**

The CODALEMA collaboration

### **Summary**

### **Reference**

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 929-932

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