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Radio detection of cosmic rays - achievements and opportunities

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Over the last 15 years, we have achieved a detailed understanding of the physics of radio emission from extensive air showers, and have consequently succeeded in developing sophisticated detection schemes and analysis approaches. In particular, we have demonstrated that the important air-shower parameters arrival direction, particle energy and depth of shower maximum can be reconstructed reliably from radio measurements, with both precision and accuracy comparable with those of other detection techniques. In this talk I will review the achievements of the radio detection technique and discuss the potential for future application in existing and new experiments for cosmic-ray detection.

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