

Vulcano Workshop 2022 - Frontier Objects in Astrophysics and Particle Physics



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Radio detection of cosmic rays

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High-energy cosmic rays impinging on the atmosphere of the Earth initiate extensive air showers. The electrons and positrons in the shower interact with the Earth magnetic field, this yields to the emission of electromagnetic waves with frequencies of tens of MHz. Antenna ground arrays are used to record the radio emission and reconstruct the properties of cosmic rays, such as arrival direction, energy, and particle type. We will discuss recent results and prospects for the future.

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