

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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The Pierre Auger Observatory: highlights and future projects

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The Pierre Auger Observatory aim is that of studying the ultra high energy cosmic rays, above 10^{17} eV. The extremely high quality of the data has led to a number of major breakthroughs.

The ankle and the suppression of the flux are clearly established; we present the results on the charged primary composition and the best current limits on cosmogenic photons and neutrinos. We will discuss the results in terms of the UHE cosmic ray origin and of the perspectives for an upgrade of the Observatory.

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