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Physics at ultra-high energies: results from the Pierre Auger Observatory

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The Pierre Auger Observatory is the largest cosmic ray observatory ever build- It samples the highest energy particles which travel through the interstellar medium by detecting the extensive showers they produce in the atmosphere. In this talk we will briefly review the main results of the observatory to understand the nature and origin of the ultra-high energy cosmic rays, and will concentrate on the unique opportunity to study hadronic interactions with the atmospheric nuclei, far beyond the limit of human-made accelerators.

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