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Exploring the Ultra High Energy Cosmic Rays with the Pierre Auger Observatory

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The Pierre Auger Observatory studies the most energetic cosmic rays arriving at Earth, in the energy range from 10^{17} eV up to 10^{20} eV and beyond. More than 10 years data taking have led to major advances in our knowledge of the origin and nature of cosmic rays. We present a summary of the latest results, discussing the challenges on the astrophysical interpretation of the flux suppression observed above 4×10^{19} eV imposed by the experimental results on the primary cosmic ray composition and anisotropy.

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