

# Large-Scale Distribution of Arrival Directions of Cosmic Rays Detected at the Pierre Auger Observatory Above $\sim 10$ PeV

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Harmonic analyses dedicated to searches for large-scale anisotropies in both right ascension and declination distributions of cosmic rays detected above  $\sim 10$  PeV at the Pierre Auger Observatory are presented. Though additional statistics is still needed to characterize unambiguously the patterns as a function of the energy due to their relatively low dipole and quadrupole amplitudes, the focus is given to the few current hints that may be indicative of the presence of a structure at large scale over a wide energy range. On the other hand, the constraints on the production of cosmic rays provided by the upper limits obtained on the dipole and quadrupole amplitudes in the EeV energy range are discussed.

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