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Large scale anisotropy studies with the Pierre Auger Observatory

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Completed at the end of 2008, the Pierre Auger Observatory has been continuously operating for more than seven years, collecting a statistics of cosmic rays that already allows one to be sensitive to intrinsic anisotropies in their sky distributions at the 1% level at EeV energies.

We present here the most recent results about the search for large scale anisotropies, reporting both the phase and the amplitude measurements of the first harmonic modulation in right ascension in different energy ranges above $2.5 \cdot 10^{17}$ eV. No significant anisotropies have been observed, upper limits on the amplitudes have thus been obtained and are here compared with the results of previous experiments and with some theoretical expectations.

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