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New full-sky studies of the distribution of ultra-high-energy cosmic-ray arrival directions

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Ground-based full-sky studies of the angular distribution of arrival directions of ultra-high-energy cosmic rays require combining data from different observatories, such as the Pierre Auger Observatory and the Telescope Array, because no single array can cover all declinations. A working group comprising members from both the Pierre Auger and Telescope Array collaborations has been tasked with performing such studies for over a decade and has found several indications of anisotropies. Here, in addition to an overview of previous results, we also apply for the first time new analysis techniques to the data that had previously only been used on simulations.

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