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Observation of Cosmic-Ray Anisotropy with Ten Years of IceCube Data

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The complete IceCube Observatory has collected over 620 billion cosmic-ray induced muon events from May 2011 to May 2021. These unprecedented statistics make it possible to observe significant structure in the cosmic-ray arrival direction distribution at both higher cosmic-ray energies and smaller angular scales. Combined with improved simulation and systematics, we can provide a newly detailed assessment of the energy- and time-dependence of the cosmic-ray anisotropy in the Southern Hemisphere. We present the preliminary results from a study with the extended event sample.

Collaboration name

IceCube Collaboration

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