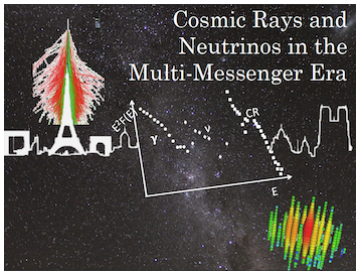

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Observation of Cosmic-Ray Anisotropy with Eleven Years of IceCube Data

mardi 6 décembre 2022 16:20 (12 minutes)

The complete IceCube Observatory has collected over 690 billion cosmic-ray induced muon events from May 2011 to May 2022. These unprecedented statistics make it possible to observe significant structure in in the distribution of cosmic-ray arrival directions 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.

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