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Monocular Anisotropy Studies with the Full HiRes-I Data Set

Abstract content

The High Resolution Fly's Eye HiRes-1 detector has now been decommissioned after nearly nine years of operation. During that time span, HiRes-1 accumulated a larger atmospheric exposure to Ultra-High Energy Cosmic Rays (UHECRs) above 10^{19} eV than any other experiment to date. This presents an unprecedented opportunity to search for anisotropy in the arrival directions of UHECRs. We present the final, updated results of searches for dipole distributions oriented towards major astrophysical landmarks, small-scale clustering, and galactic and supergalactic plane enhancements. We conclude that the HiRes-I data set is, in fact, consistent with an isotropic source model.

If this papers is presented for a collaboration, please specify the collaboration

High Resolution Fly's Eye Collaboration (HiRes)

Summary

Reference

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