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Determining Power Spectra of High Energy Cosmics

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The angular power spectrum is a powerful observable for characterizing angular distributions, popularized by measurements of the cosmic microwave background (CMB). The power spectra of high energy cosmics (γ -rays, protons, neutrinos, etc.) contains information about their sources. Since these cosmics are observed on an event-by-event basis, the nature of the power spectrum measurement is fundamentally different from the CMB. We present new progress on the statistical properties of these power spectrum measurements and discuss the new information about the sources that can be gleaned from these observations.

Author: CAMPBELL, Sheldon (The Ohio State University)

Presenter: CAMPBELL, Sheldon (The Ohio State University)

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