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Statistical Analysis for COSINE-100

Wednesday 31 July 2019 18:05 (1 hour)

COSINE-100 is an experiment to detect dark matter induced recoil interactions in NaI(Tl) crystals in order to test the DAMA/LIBRA collaboration's claim. The COSINE-100 detector has been operating since September of 2016 in the 700-m-deep Yangyang underground laboratory. First shape and annual modulation analyses have been completed, and the related statistical approaches will be presented. In addition, we introduce our own analysis tool based on bayesian statistics for several other analyses in progress.

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