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Applying Feldman-Cousins Method to NSI in COHERENT

The first measurement of coherent elastic neutrino-nucleus scattering performed by the COHERENT collaboration in 2017 using a CsI detector has been used to significantly reduce the space of allowed non-standard-neutrino-interaction couplings. In this work, we apply the Feldman-Cousins method to the COHERENT data to improve the obtained limit and discuss how the results can be refined further.

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