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Present and future prospects for lattice QCD calculations of matrix elements for nEDM

Wednesday, 12 September 2018 17:20 (40 minutes)

In this talk, I will review the opportunities for and challenges to calculating all CP violating operators up to dimension 6 that contribute to the neutron EDM. These include the Theta-term, quark EDM, quark chromo EDM, Weinberg and 4-quark operators. Major focus of the talk will be on evaluating the numerical signal and renormalization and mixing between operators. Results for the quark EDM operators and their phenomenological consequences will be presented.

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