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## Electric Dipole Moments of the Nucleon and Light Nuclei in Chiral Effective Field Theory

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A nonzero electric dipole moment (EDM) of the neutron, proton, deuteron or helion, in fact, of any finite system necessarily involves the breaking of a symmetry, either by the presence of external fields (i.e., electric fields leading to the case of induced EDMs) or explicitly by the breaking of the discrete parity and time-reflection symmetries in the case of permanent EDMs. Recent results for the relevant matrix elements of nuclear EDM operators based on calculations in chiral effective field theory ( $\chi$ EFT) are presented. Furthermore, strategies are discussed for disentangling the underlying sources of CP breaking beyond what is generated by the Kobayashi–Maskawa quark-mixing mechanism in the Standard Model.

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