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Computing Nucleon Electric Dipole Moment from lattice QCD

Thursday 20 June 2019 09:45 (30 minutes)

High precision study of nuclear physics is a vital part of searches for new physics beyond the standard model. In particular, observation of permanent electric dipole moments (EDMs) of nucleons (and nuclei) can be direct evidence for violation of CP symmetry. Connecting the quark- and hadron-level effective interactions that include CP violating sources is an important task for lattice QCD. I will review recent progress on lattice calculations of nucleon EDM induced by lowest-order quark-gluon operators and chromo-electric interactions and their implications for EDM experiments. I will also show preliminary results and discuss the issues and future prospects of the lattice calculations of the nucleon EDM.

Presenter: OHKI, Hiroshi

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