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Constraining CP violation within effective field theories

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The baryon asymmetry of the universe points towards CP-violating sources beyond the Standard Model. If these consist of heavy new particles, their effect at low energies can be described by effective field theories. I will describe theoretical challenges and recent progress within this framework for the extraction of bounds on CP violation from neutron EDM searches. In particular, I will discuss the connection to lattice-QCD as an input for hadronic matrix elements.

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