

Plenarvortrag

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Nuclear physics for tests of fundamental symmetries and searches for physics beyond the Standard Model — ●MARTIN

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Precision measurements of low-energy observables can provide constraints on physics beyond the Standard Model that are complemen-

tary to direct searches at the energy frontier. However, in order to unambiguously establish anomalies that signal departures from the Standard Model or at least extract limits on the New-Physics parameter space, calculations of hadronic matrix elements with controlled uncertainties are becoming increasingly important. In the talk, this interplay between nuclear and particle physics will be discussed in the context of dark-matter searches, the anomalous magnetic moment of the muon, and lepton flavor violation.