

Fundamental physics with muons

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I will review applications of the muon as a probe for new phenomena. Topics to be discussed include the free muon decay and the determination of the Fermi constant; using muonic atoms to measure nuclear form factors and radii, through spectroscopy and capture; the anomalous magnetic moment of the muon; and searches for charged lepton flavor violation such as $\mu \rightarrow e + \gamma$, $\mu \rightarrow 3e$, and the muon-electron conversion.

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