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Three different ways to look for NC parity violation with muons

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I will describe several conceptual schemes for detecting parity violating muon-nucleus interactions.

1. Muonic atoms, where $Z=30$ and higher atoms offer a possibility to look for $2S \rightarrow 1S$ parity violating transition.
2. Scattering of polarized muons, where muon spin is manipulated in a storage-ring type set-up.
3. Using optical activity type rotation of the transverse linear polarization of muons.

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