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Title: "Searching for Fierz Interference in the Beta Decay Spectrum of Ultracold Neutrons"

Abstract: We discuss the status of the UCNb experiment that uses the ultracold neutron (UCN) source at LANSCE. The UCNb apparatus is being designed to test contributions to scalar and tensor interactions from physics beyond the Standard Model, manifest as a nonzero value for the neutron Fierz interference parameter, $b_n = (b_F - 3\lambda b_{GT})/(1 + 3\lambda^2)$, in the β energy spectrum of neutron decay. Some models may have b_n as large as 10^{-3} , but below the current limits on the Fermi component, b_F , set by superallowed $0+ \rightarrow 0+$ nuclear β decays. Neutron decay has the advantage of sensitivity to the Gamow-Teller component of b , b_{GT} . We present data from the UCNb apparatus test runs from 2010 and 2012.