

Abstract Submitted  
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**Polarized neutron  $\beta$ -decay: proton asymmetry and recoil-order currents** SKY SJUE, University of Washington — We present an analytic calculation of the proton asymmetry from polarized neutron  $\beta$ -decay, including recoil-order effects. The differential decay rate in terms of electron energy and proton direction follows, parametrized in terms of the most general Lorentz-invariant hadron current coupled to a left-handed lepton current. Implications for experimental efforts to measure recoil-order currents are discussed.

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