

Abstract Submitted
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Parity-violating three-body forces in effective field theory¹

MATTHIAS R. SCHINDLER, The George Washington University — Hadronic parity violation in the two-nucleon system has been studied using a pionless effective field theory (EFT). The advantage of an EFT over a model-dependent description is that it allows for the consistent description of three- and few-body systems. I will present the extension of the parity-violating EFT program to the three-body system, discussing the leading parity-violating three-body forces and whether these are required to consistently describe nd scattering. These results can then be used in the description of the reaction $nd \rightarrow t\gamma$, for which a new experimental measurement might be performed in the future.

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Matthias R. Schindler
The George Washington University

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