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Abstract for an Invited Paper for the APR12 Meeting of the American Physical Society

Overview of Measurements Related to Three-Nucleon Force Effects¹ WERNER TORNOW, Department of Physics/TUNL, Duke University

A review of specific three-nucleon and four-nucleon experiments will be given. The results of these measurements, when compared to state-of-the-art theoretical calculations, both with and without three-nucleon forces (3NFs), are the basis of our understanding that 3NFs are not only needed to correctly bind nuclear systems, but also to describe scattering states of few-nucleon systems. Recommendations will be given for obtaining improved or new experimental data to produce the database needed to put 3NFs in the continuum on a solid experimental ground.

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