Abstract Submitted for the DNP08 Meeting of The American Physical Society

A New Approach to Effective Field Theory for Few-Nucleon Physics DAVID KAPLAN, Institute for Nuclear Theory, SILAS BEANE, University of New Hampshire, ALEKSI VUORINEN, CERN — I describe an alternate formulation of the effective field theory expansion for nucleon-nucleon interactions, which is a hybrid between the approach of Weinberg and that of Kaplan, Savage and Wise (KSW). Like the KSW approach, pion exchange is treated perturbatively, and amplitudes may be computed analytically, yet without the convergence problems previously caused by the tensor force.

> David Kaplan Institute for Nuclear Theory

Date submitted: 01 Jul 2008

Electronic form version 1.4