

Abstract Submitted
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πN scattering in the $\Delta(1232)$ region BINGWEI LONG, UBIRAJARA VAN KOLCK, Department of Physics, University of Arizona — We develop a chiral effective field theory based on the rest-frame heavy-baryon formalism to describe πN scattering in the $\Delta(1232)$ resonance region. The phase shift in the P_{33} elastic channel is calculated up to next-to-next-to-leading order. A comparison is made with phenomenological phase-shift analyses.

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