

Abstract Submitted
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Laser Spectroscopy of Atomic Gadolinium. UPENDRA M. ADHIKARI, CLAYTON E. SIMIEN, Univ of Alabama - Birmingham — Lanthanide elements are of interest because of their potential for investigating next generation optical clock transitions, novel non-S ground state ultracold collisions, and the physics of quantum degenerate dipolar gases. We present our results using laser spectroscopy to measure the isotope shifts and Zeeman spectra for potential laser cooling transitions of atomic gadolinium. These results will allow us to implement laser cooling and trapping of atomic gadolinium.

Upendra M. Adhikari
Univ of Alabama - Birmingham

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