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The N+CPT resonance MICHAEL CRESCIMANNO[1], Department of Physics and Astronomy, MICHAEL HOHENSEE, CINDY HANCOX, DAVID PHILLIPS, RON WALSWORTH, Harvard-Smithsonian Center for Astrophysics —
Of relevance to compact atomic frequency standards, we investigate a model of the N+CPT joint optical resonance. We compare analytical solutions of a 4-state theory, as well as numerical solutions of the optical Bloch equations, to experimental investigations of N+CPT resonances in 87Rb. Our results inform the optimization of N+CPT based frequency standards.

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