

Abstract Submitted  
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**Testing quantum electrodynamics in neutral beryllium-9**<sup>1</sup> ERYN COOK, ALISHA VIRI, EMMA LIVERNOIS, CARSON PATTERSON, WILL WILLIAMS, Smith College — We report on measurements for the absolute transition frequency and hyperfine constants for the 2s2p 1P1 state in neutral beryllium-9. The absolute transition frequency, when compared to a theoretical prediction[1], serves as a test of quantum electrodynamics. Progress on spectroscopy to determine the absolute frequency and hyperfine structure for the 2s3d 1D2 state and the 2s2p 3P1 will also be presented. [1]Puchalski et al. PRA **87**, 030502(R) (2013)

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