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Precision spectroscopy in neutral beryllium-9<sup>1</sup> ERYN COOK, MOLLY HERZOG, ESTHER KERNS, CHELSEA PEREZ, WILLIAM WILLIAMS, Smith College — Four-electron systems are the current testing ground for many advanced theoretical models and also tests of quantum electrodynamics. We present our current progress on updated experimental measurements for a variety of energy levels in neutral beryllium-9, compare them to current theoretical predictions, and motivate future theoretical calculations to compare to these experimental results.

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