## Abstract Submitted for the DAMOP18 Meeting of The American Physical Society

Measurement of the Landé g-factor ratio of Rb-87 and Rb-85<sup>1</sup> DOMINIC FUENTES, ARACELY COBOS, JASON MORA, DEREK JACKSON KIMBALL, California State University - East Bay — We report on a measurement of the ratio of the Rb-87 and Rb-85 Landé g-factors,  $g_F(87)/g_F(85)$ , based on the data from the experiment of Jackson Kimball et al., Phys. Rev. D **96**, 075004 (2017). The experiment simultaneously measured the spin-precession frequencies of overlapping ensembles of Rb-87 and Rb-85 atoms contained within an evacuated, antirelaxation-coated vapor cell. The accuracy of this measurement of  $g_F(87)/g_F(85)$  exceeds that of previous measurements by over an order-of-magnitude.

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