Convergence of Theory and Experiments for the 3C/3D Line Ratio in Ni XIX\textsuperscript{1} G.X. CHEN, K. KIRBY, ITAMP, Harvard-Smithsonian Center for Astrophysics, E. SILVER, N.S. BRICKHOUSE, Harvard-Smithsonian Center for Astrophysics, J.D. GILLASPY, J.N. TAN, J. POMEROY, NIST, J.M. LAMING, Naval Research Laboratory — We report the results of a new Dirac $R$-matrix calculation for the 3C/3D X-ray line ratio in Ni XIX, together with the results of new experimental measurements performed on an EBIT. The results and uncertainties were obtained independently at the Harvard-Smithsonian Center for Astrophysics and NIST, respectively, and agree well with each other. The theoretical results are converged to an uncertainty of $\sim5\%$.

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