

ELECTRONIC SPECTROSCOPY OF THE $6p \leftarrow 6s$ TRANSITION IN Au-Ne

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Electronic spectra of the Au-Ne complex have been recorded for the first time in the vicinity of the atomic Au $6p \leftarrow 6s$ transition.^a A structured spectrum was observed near the Au $^2P_{3/2} \leftarrow ^2S_{1/2}$ transition, however, the complex spectrum expected near the Au $^2P_{1/2} \leftarrow ^2S_{1/2}$ transition was not observed. This is rationalized using high level *ab initio* calculations.

^aR. J. Plowright, A. M. Gardner, C. D. Withers, T. G. Wright, M. D. Morse and W. H. Breckenridge, *J. Phys. Chem. A*, 114, 3103, (2010)