THE ENERGY LEVELS OF URANIUM V

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Spin-orbit configuration-interaction calculations are performed on U^{4+}. Uranium is modeled with relativistic effective core potentials and Gaussian cc-pVDZ and cc-pVTZ basis sets. This $5f^2$ ion has been studied extensively, and the calculations are compared with the experimental spectrum[a].

[a] J. F. Wyart, V Kaufman, and J. Sugar *Phys. Scr.* **22**, 389 (1980)