

Abstract Submitted
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Electron Precession in Atonic Mechanics ALFRED PHILLIPS, JR.,
Source Inst / Cornell U — With Atonic Mechanics we have been able to accurately calculate the measured values of the NIST He I and He II energy levels. Our model requires much less mathematical tedium than does the Schrodinger method but with equal accuracy. We made the conjecture that the angular momentum for excited electrons is $(n + \delta n) \hbar$. We had hypothesized that the δn was a fractal. We have subsequently found a more conventional quantum mechanical explanation for δn . We model the δn by assuming that the excited electron undergoes precession with a quantum number, l , having values of 1, 2, 3, . . . We will discuss the precession model. We expect that our model may be used in calculating the spectra of more complex atoms, lithium onward, that have been formidable mathematically using the Schrodinger theory.

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