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r , and $l(l+1) \rightarrow m^2 - 1/4$, which is to say, $l^2 + l + 1/4 = m^2$, or $(l + 1/2)^2 = m^2$, or $l = |m| - 1/2$. [Our present equation depends only on m^2 , and hence is the same for either sign, but the solution to Problem 4.39 assumed $l + 1/2 \geq 0$ (else u is not normalizable), so we need $|m|$ here.] Quoting 4.39: $E = (j$

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quantum mechanics in a more systematic fashion in Chapter 4. Quantum mechanics is used to examine the motion of a single particle in one dimension, many particles in one dimension, and a single particle in three dimensions, in Chapters 5, 6, and 7, respectively.

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