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

Contents

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