

Exact analysis of the spherical Raman-Nath equation

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ERRATUM

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On page 2654, equation (10) should read

$$\frac{d}{dx} |M_{l(x)}^{n_w, n_r}\rangle = \exp(i\gamma x \hat{L}_z^2) [i\gamma \hat{L}_z^2 - \exp(i\beta x) \hat{L}_+ + \exp(-i\beta x) \hat{L}_-] \exp(-i\gamma x \hat{L}_z^2) |M_{l(x)}^{n_w, n_r}\rangle \quad (10)$$

In equation (11), replace ' $\exp(-f_{(x)} \hat{L}_-)$ ' by ' $\exp(-f_{(x)} \hat{L}_-)$ '.

In equation (13), replace ' $(f_{(x)} g_{(x)})^j$ ' by ' $(-f_{(x)} g_{(x)})^j$ '.

These three corrections have no effect on any other results.