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Interaction of radiation with atoms

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Corrigendum

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Papadopolos G J 1980 J. Phys. A: Math. Gen. 13 1423-32

Equations (2.10b, c) should read:

$$\langle S_{1}^{\dagger}S_{1}\rangle_{t} = u_{11}^{(n)}(-t)u_{11}^{(n)}(t) + u_{13}^{(n-1)}(-t)u_{31}^{(n)}(t)$$

$$= \frac{1}{2} + \frac{1}{2}\cos(\Omega_{n+1}t) - \frac{1}{4}\frac{1}{2n+1}\sin^{2}(\Omega_{n+1}t) \qquad (2.10b)$$

$$\langle S_{2}^{\dagger}S_{2}\rangle_{t} = u_{12}^{(n)}(-t)u_{21}^{(n)}(t) + u_{13}^{(n-1)}(-t)u_{31}^{(n)}(t)$$

$$= \frac{1}{2} - \frac{1}{2}\cos(\Omega_{n+1}t) - \frac{1}{4}\frac{1}{2n+1}\sin^{2}(\Omega_{n+1}t) \qquad (2.10c)$$

The above correction retains the bottom parts of the curves in figure 2 still flatter than the top ones for low photon numbers, but this disappears for large photon numbers.