Publisher's Note: Two-level-atom excitation probability for single- and N -photon wave packets
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This paper was published online on 11 September 2017 with a production error in the affiliation address and author errors in Eq. (56) and in the asymptotic form appearing in the first complete sentence after Eq. (56) on page 8 of the PDF. The affiliation address should read as “Department of Physics, University of Arkansas, Fayetteville, Arkansas 72701, USA.”

Equation (56) should read as

$$y_N^{(1)}(\theta) = - \int_0^\theta \frac{d\tau}{d\theta'} \left\{ \sum_{n=0}^{N-1} \frac{(-1)^n N!}{(2n)!(N-n)!N^n} (\theta - \theta')^{2n} \left[1 - {}_1F_1\left(-N+n, \frac{1}{2}, \frac{\theta'^2}{4N}\right) \right] \right. \\ \left. + \frac{1}{2} \sum_{n=1}^{N-1} \frac{(-1)^{n-1} (N-1)!}{(2n-1)!(N-n)!N^{n-1}} (\theta - \theta')^{2n-1} \left[\theta' {}_1F_1\left(-N+n, \frac{3}{2}, \frac{\theta'^2}{4N}\right) \right] \right\}. \quad (56)$$

The asymptotic form on page 8 following Eq. (56) should read as “[$1 - \cos(\theta')$] $\cos(\theta - \theta') + \frac{1}{2} \sin(\theta - \theta') \sin(\theta')$, as $N \rightarrow \infty$ ”. The errors have been corrected as of 8 February 2019. The changes could not be made to the printed version of the journal.