

**Erratum: Gaussian entanglement distribution via satellite [Phys. Rev. A 91, 022304 (2015)]**

Nedasadat Hosseinidehaj and Robert Malaney  
 (Received 20 May 2016; published 6 June 2016)

DOI: [10.1103/PhysRevA.93.069902](https://doi.org/10.1103/PhysRevA.93.069902)

In our work some typographical errors are present, which are corrected as follows.

The correct format of Eq. (2) is

$$\Omega := \bigoplus_{k=1}^n \omega = \begin{pmatrix} \omega & & \\ & \ddots & \\ & & \omega \end{pmatrix}, \quad \omega := \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}.$$

The correct format of Eq. (21) is

$$W_{\eta\eta'}^d(q_A, p_A, q_{B'}, p_{B'}) = \int_{q_{\text{th}}}^{\infty} dq_t \int_{-\infty}^{\infty} dp_t W_{\eta\eta'}(q_A, p_A, \tilde{q}_B, \tilde{p}_B) W_v(\tilde{q}_v, \tilde{p}_v).$$

The correct format of  $c_p^d$  in Eq. (23) is

$$c_p^d = \frac{1}{P_s} \int_0^{\eta_0} \int_0^{\eta'_0} p_{AS}(\eta) p_{SB}(\eta') P_{\eta\eta'} \sqrt{T} c_p d\eta d\eta'.$$

The correct format of Eq. (A4) is

$$\begin{aligned} W_{\text{in}}(R_{1,2,3,4}) &\propto \exp \left[ -\frac{1}{2} (R_{1,2} M_{1,2}^{-1} R_{1,2}^T + R_{3,4} M_{3,4}^{-1} R_{3,4}^T) \right] \\ &= \exp \left[ -\frac{1}{2} (\lambda_{11} q_1^2 + \lambda_{33} q_2^2 + \lambda_{22} p_1^2 + \lambda_{44} p_2^2 + \gamma_{11} q_3^2 + \gamma_{33} q_4^2 + \gamma_{22} p_3^2 + \gamma_{44} p_4^2 \right. \\ &\quad \left. + 2\lambda_{13} q_1 q_2 + 2\lambda_{24} p_1 p_2 + 2\gamma_{13} q_3 q_4 + 2\gamma_{24} p_3 p_4) \right]. \end{aligned}$$

The correct format of Eq. (A7) is an  $8 \times 8$  matrix as given in the following:

$$M_{1,4,u,v}^{-1} = \begin{pmatrix} \lambda_{11} & 0 & 0 & 0 & k\lambda_{13} & 0 & k\lambda_{13} & 0 \\ 0 & \lambda_{22} & 0 & 0 & 0 & k\lambda_{24} & 0 & k\lambda_{24} \\ 0 & 0 & \gamma_{33} & 0 & -k\gamma_{13} & 0 & k\gamma_{13} & 0 \\ 0 & 0 & 0 & \gamma_{44} & 0 & k\gamma_{24} & 0 & -k\gamma_{24} \\ k\lambda_{13} & 0 & -k\gamma_{13} & 0 & \frac{1}{2}\delta_1 & 0 & \frac{1}{2}\delta_3 & 0 \\ 0 & k\lambda_{24} & 0 & k\gamma_{24} & 0 & \frac{1}{2}\delta_2 & 0 & \frac{1}{2}\delta_4 \\ k\lambda_{13} & 0 & k\gamma_{13} & 0 & \frac{1}{2}\delta_3 & 0 & \frac{1}{2}\delta_1 & 0 \\ 0 & k\lambda_{24} & 0 & -k\gamma_{24} & 0 & \frac{1}{2}\delta_4 & 0 & \frac{1}{2}\delta_2 \end{pmatrix}.$$