

Beating the channel capacity limit for linear photonic superdense coding

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The authors wish to point out that in the above letter, the states defined on page 283 should be as follows:

$$\Phi_{\text{spin}}^{\pm} \otimes \Psi_{\text{orbit}}^{+} = \frac{1}{2}(\phi_1^{+} \otimes \psi_2^{\pm} + \phi_1^{-} \otimes \psi_2^{\mp} + \psi_1^{+} \otimes \phi_2^{\pm} + \psi_1^{-} \otimes \phi_2^{\mp}),$$

$$\Psi_{\text{spin}}^{\pm} \otimes \Psi_{\text{orbit}}^{+} = \frac{1}{2}(\pm\phi_1^{+} \otimes \phi_2^{\mp} \mp \phi_1^{-} \otimes \phi_2^{\pm} \pm \psi_1^{+} \otimes \psi_2^{\mp} \mp \psi_1^{-} \otimes \psi_2^{\pm}).$$

Accordingly, in Fig. 3, the first two sets of Alice’s detector signatures should be as in the following corrected figure:

