Erratum: Hybrid Long-Distance Entanglement Distribution Protocol [Phys. Rev. Lett. 105, 160501 (2010).]

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In the course of recent work, we have discovered an error in the numerical simulations of the repeater. The error leads to a value of the rate which is too high.

A plot of the corrected rate is shown in Fig. 1 along with the rate from the published Letter for comparison. At a distance of 1000 km, the corrected rate is lower by a factor of ~ 95 , leading to a value of 0.001 rather than 0.1 pairs/minute as stated in the Letter. The protocol thus does not compare as favorably against discrete-variable repeater schemes as originally claimed. At 600 km we can compare against the schemes of the review [1]. We find that the corrected rate is not better than, but rather on par with, the rate of the best previous schemes that do not use multiplexing, when a realistic single-photon detector efficiency of 50% is assumed.

FIG. 1 (color online). Comparison of the corrected (solid black line) and the erroneous (dashed black line) rate. The optimal values of the number of generation steps m (red dotted line), and connection steps n (blue dash-dotted line) for the corrected rate are also indicated, with values given on the right-hand axis.

- [1] N. Sangouard, C. Simon, H. de Riedmatten, and N. Gisin, *Rev. Mod. Phys.* **83**, 33 (2011).