**Publisher's Note: Demonstrating coherent control in $^{85}\text{Rb}_2$ using ultrafast laser pulses:
A theoretical outline of two experiments [Phys. Rev. A **80**, 033403 (2009)]**

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This paper was published online on 3 September 2009 with production errors on page 8. On page 8, left-hand column, the sixth line of the second paragraph should read as "...the triplet ground states ($^3\Sigma_u^+$), one has 0_u^- symmetry, one...." In Table II, on page 8, the second and third entries in the first column under "Hund's case (c)" should read as " 0_u^- " and " 1_u^+ ." The paper has been corrected as of 9 September 2009. The text is correct in the printed version of the journal.