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The qqbar potential from Wilson loop and the qqbar potential from Nambu-Bethe-Salpeter wave function

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In Phys.Rev.Lett.107,091601, T.Kawanai and S.Sasaki extended HAL QCD method to the c \bar{c} system and showed numerically that the qqbar potential obtained from the Nambu-Bethe-Salpeter wave function agrees with the qqbar potential obtained from Wilson loop in the heavy quark mass limit. However, it is not known how these two potentials can agree. In this talk, the relation between these two qqbar potentials is discussed, and it is shown that they agree in the infinite quark mass limit.

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