Erratum

Is There a Potential Problem for the Potential Model?

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In (1) and in α_m (after (6)), $(1+Q_i Q_j)$ should read $\left(1 - \frac{3\alpha}{4\alpha_s} Q_i Q_j\right)$. The factor $(-\alpha_m)$ is missing from each of 5th, 6th and 7th term on r.h.s. of (7). The r.h.s. of (8) should contain an extra factor of $(-1/(\alpha_m)_{D^0})$. In (9), 5th, 6th and 7th terms should be multiplied by $-\alpha_m$, $-\alpha_m$ and $\alpha_m/(\alpha_m)_{D^0}$ respectively. In (10), $(1 + 3(M_{D^*} - M_D)/4m_b)^{-1}$ should be dropped and 5th, 6th, 7th and 8th terms in the bracket should be multiplied by $-\alpha'_m$, $-\alpha_m$, $-\alpha'_m$ and $-\alpha_m$ respectively and extra term $3(M_{D^*} - M_D) \left(\alpha'_m \frac{m_c}{m_b} - \alpha_m \right) / 4(\alpha_m)_{D^0}$ should be added to the r.h.s. On the r.h.s., the 4th

and 5th terms in (11), 1st terms in (12 a) and (12 b), 2nd terms in (13 a) and (13 b) should contain extra factors of $-\alpha_m$, $\alpha_m/(\alpha_m)_{D^0}$, $\alpha_m/(\alpha_m)_{D^0}$, $\alpha'_m/(\alpha_m)_{D^0}$, $-\alpha_m$ and $-\alpha'_m$ respectively. In (14), $[1 + m_d(M_{D^*} - M_D)(m_b + m_c)/8m_b^2 m_c]^{-1}$ should be dropped and $m_c m_d (M_{D^*} - M_D)(\alpha'_m/m_b^2 - \alpha_m/m_c^2)/8(\alpha_m)_{D^0}$ should be added to the r.h.s. In Sect. III, $a = 5.4236 \times 10^{-3}$ should read $a = 1.036 \times 10^{-2}$. In (15) and (17), the numbers in the r.h.s. should read 3277.17 and 3229.19 respectively. The last relation should read

$$\frac{1}{4 \cdot 16} (M_{K^*} - M_K) = M_{D^*} - M_D = 4.47 (M_{B^*} - M_B).$$