Erratum: signatures of low-scale string models at the LHC

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The factor $1/4$ in the second line of eq. (A.18) should not exist:

$$\begin{aligned}\Gamma_{q^* \rightarrow qG, 1st}^{J=1/2} &= \frac{1}{16\pi M_s} \frac{1}{2 \times \frac{1}{2} + 1} \frac{1}{N} \sum_{\alpha} \sum_{\alpha_3, a_4} \frac{1}{2} \left\{ |F_{+1/2, +1; \alpha_3, a_4}^{\alpha J=1/2}|^2 + |F_{-1/2, -1; \alpha_3, a_4}^{\alpha J=1/2}|^2 \right\} \\ &= \frac{g^2 M_s}{16\pi} \frac{1}{N} \sum_{a_4} \text{tr}(T^{a_4} T^{a_4}).\end{aligned}\tag{A.18}$$

Signal-to-noise ratios for the second string resonance are calculated in the dijet invariant mass window of $[\sqrt{2}M_s - 250 \text{ GeV}, \sqrt{2}M_s + 250 \text{ GeV}]$ as $S/\sqrt{B} = 71/\sqrt{133} \simeq 6\sigma$ for 18.5 fb^{-1} of integrated luminosity and $S/\sqrt{B} = 217/\sqrt{313} \simeq 12\sigma$ for 50 fb^{-1} .