

$$\frac{d\sigma_{q\bar{q}}}{d^2b_T} = 2(1 - \text{Re}S(b_T)) = 2 \left[1 - \exp\left(-\frac{\pi}{2N_c} r_T^2 \alpha_s(\mu^2) xg(x, \mu^2) T(b_T)\right) \right]$$