



Erratum

Erratum to “The polarized photon structure function $g_1^\gamma(x, Q^2)$ in massive parton model in NLO” [Phys. Lett. B 707 (1) (2012) 146–150]Noriyoshi Watanabe^a, Yuichiro Kiyoyama^b, Ken Sasaki^{a,*}^a Dept. of Physics, Faculty of Engineering, Yokohama National University, Yokohama 240-8501, Japan^b Dept. of Physics, Faculty of Science, Tohoku University, Sendai 980-0845, Japan

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An overall sign of the NLO contribution has been changed. The new Fig. 3 and Fig. 4 replace the respective old ones. As a result:

- The first sentence in the paragraph just below Eq. (14) should read “We observe in the figures that there exist NLO corrections both at large and small x , positive at large x but negative in small x region, a behaviour similar to the LO result”.
- The minus sign was inserted into the r.h.s of the equation for δ just below Eq. (15) as

$$(-2.2, -2.0) \times 10^{-4}.$$

The conclusions are unchanged.

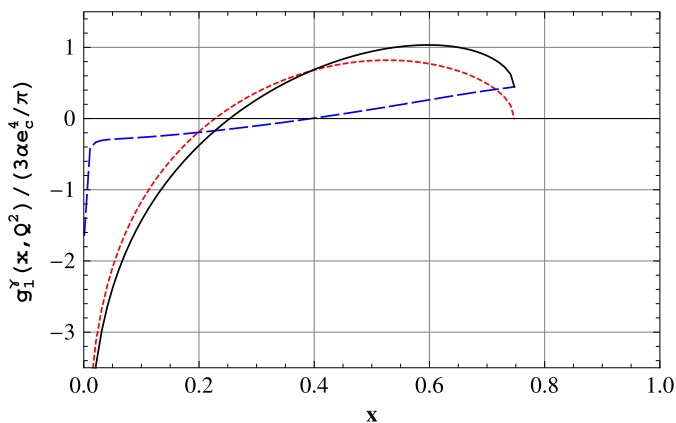


Fig. 3. Charm quark effects on the polarized real photon structure function $g_1^\gamma(x, Q^2)$ in the PM in units of $(3\alpha_e^4/\pi)$ for $Q^2 = 20 \text{ GeV}^2$ and $m_c = 1.3 \text{ GeV}$ with $\alpha_s = 0.22$. We plot the LO result (dotted line), the NLO contribution (dashed line) and the sum of LO and NLO contributions (solid line).

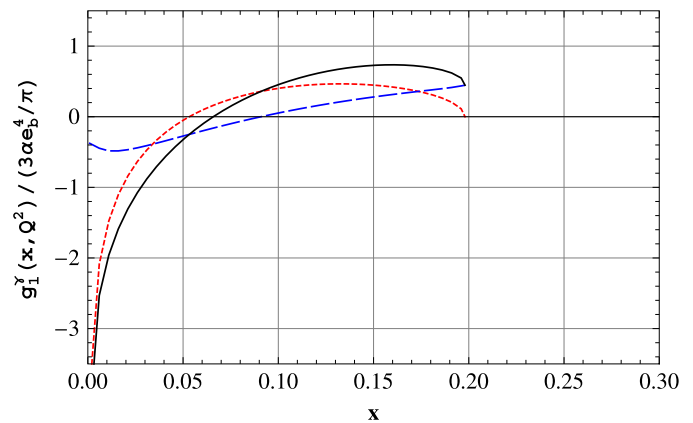


Fig. 4. Bottom quark effects on the polarized real photon structure function $g_1^\gamma(x, Q^2)$ in the PM in units of $(3\alpha_e^4/\pi)$ for $Q^2 = 20 \text{ GeV}^2$ and $m_b = 4.5 \text{ GeV}$ with $\alpha_s = 0.22$. We plot the LO result (dotted line), the NLO contribution (dashed line) and the sum of LO and NLO contributions (solid line).

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