

**Erratum: QCD analytic perturbation theory: From integer powers to any power  
of the running coupling  
[Phys. Rev. D 72, 074014 (2005)]**

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(Received 25 November 2005; published 29 December 2005)

 DOI: [10.1103/PhysRevD.72.119908](https://doi.org/10.1103/PhysRevD.72.119908)

PACS numbers: 11.15.Bt, 12.38.Bx, 12.38.Cy, 99.10.Cd

(i) In Section IV, Fig. 4(a) should be replaced by the following graphics.

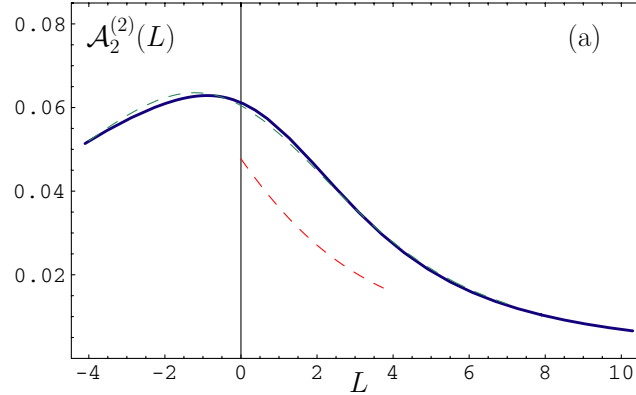


FIG. 4 (color online). (a) Comparison of different results for  $\mathcal{A}_2^{(2)}(L)$ . The solid line corresponds to  $\mathcal{A}_2^{(2):\text{FAPT}}(L)$ , computed analytically via Eq. (3.29);  $\mathcal{A}_2^{(2):\text{num}}(L)$  (dashed line) is derived by means of a numerical integration. The dotted line represents the available results of the numerical procedure of Magradze in [23].

(ii) In Appendix B of the journal version, Eq. (B13) should be replaced by

$$\varphi_{(2)}(\sigma) = \arccos \left[ \frac{L(\sigma) + c_1 \ln(\sqrt{(L(\sigma) + c_1)^2 + \pi^2})}{R_{(2)}(\sigma)} \right]. \quad (\text{B13})$$

This expression should be used to evaluate Eq. (B10). This is exactly the reason why Fig. 4(a) had to be corrected. One appreciates that now the two calculations for  $L \leq 0$  agree much better than before. Figure 3 is affected by this correction as well but the corrected figure is not visually distinguishable from that published in the journal version. All other results are not affected by this correction.