Erratum: Jet production in (un)polarized *pp* collisions: Dependence on jet algorithm [Phys. Rev. D 86, 094009 (2012)]

Asmita Mukherjee and Werner Vogelsang

(Received 23 May 2023; published 9 June 2023)

DOI: 10.1103/PhysRevD.107.119901

The statement, "Since for $d\hat{\sigma}_{j(k)}$ the jet is obtained from the single parton j, it is independent of the jet definition" made in the last paragraph of Sec. II B is incorrect. As a result, use of $d\hat{\sigma}_{j(k)}$ from the previous literature [1] turns out to be adequate for k_t -type algorithms but not for the cone algorithm, for which it leads to a violation of momentum sum rules [2–4]. Corrected formulas may be found in [5,6] in terms of jet functions. The numerical effects related to these corrections for the cone algorithm are very small.

- [1] B. Jäger, M. Stratmann, and W. Vogelsang, Phys. Rev. D 70, 034010 (2004).
- [2] L. Dai, C. Kim, and A. K. Leibovich, Phys. Rev. D 94, 114023 (2016).
- [3] M. Procura and W. J. Waalewijn, Phys. Rev. D 85, 114041 (2012).
- [4] Z. B. Kang, F. Ringer, and W. J. Waalewijn, J. High Energy Phys. 07 (2017) 064.
- [5] T. Kaufmann, A. Mukherjee, and W. Vogelsang, Phys. Rev. D 92, 054015 (2015); 101, 079901(E) (2020).
- [6] T. Kaufmann, Ph.D. thesis, University of Tübingen, Germany, 2017.