

Erratum: Factorization and resummation for jet processes

Thomas Becher,^a Matthias Neubert,^{b,c} Lorena Rothen^d and Ding Yu Shao^a

^a*Albert Einstein Center for Fundamental Physics, Institut für Theoretische Physik, Universität Bern,*

Sidlerstrasse 5, CH-3012 Bern, Switzerland

^b*PRISMA Cluster of Excellence & Mainz Institute for Theoretical Physics, Johannes Gutenberg University,*

55099 Mainz, Germany

^c*Department of Physics, LEPP, Cornell University, Ithaca, NY 14853, U.S.A.*

^d*Theory Group, Deutsches Elektronen-Synchrotron (DESY), Notkestrasse 85, D-22607 Hamburg, Germany*

E-mail: becher@itp.unibe.ch, matthias.neubert@uni-mainz.de, lorena.rothen@desy.de, shao@itp.unibe.ch

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Equations (5.6) and (5.7) in the original paper were missing a sign from the sum over gluon polarizations. As a consequence, the sign of the anomalous dimension (5.11) must be changed. The corrected equation (5.11) reads

$$\begin{aligned} V_m &= \Gamma_{m,m}^{(1)} = 2 \sum_{(ij)} (\mathbf{T}_{i,L} \cdot \mathbf{T}_{j,L} + \mathbf{T}_{i,R} \cdot \mathbf{T}_{j,R}) \int \frac{d\Omega(n_k)}{4\pi} W_{ij}^k [\Theta_{\text{in}}^{n\bar{n}}(k) + \Theta_{\text{out}}^{n\bar{n}}(k)] , \\ R_m &= \Gamma_{m,m+1}^{(1)} = -4 \sum_{(ij)} \mathbf{T}_{i,L} \cdot \mathbf{T}_{j,R} W_{ij}^{m+1} \Theta_{\text{in}}^{n\bar{n}}(n_{m+1}) . \end{aligned}$$

Furthermore, the expressions for the quantities $\mathcal{S}_2^{(n)}$ in (5.17) must be multiplied by $1/n!$ to get the correct result for the soft function at the n -th order, see also (5.20).

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