Erratum: Kink-limited Orowan strengthening explains the brittle to ductile transition of irradiated and unirradiated bcc metals [Phys. Rev. Materials 2, 073608 (2018)]

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We correct a small typographical error in the derivation of the partition function for a kink-bearing dislocation line of fixed length. The correction leaves all results and conclusions of the published paper unchanged. The sum presented as the partition function in Eq. (A1) of the paper contained a typographical error in the summand and limits of the summation. Under the approximation that left and right kinks appear in pairs but are otherwise indistinguishable, the correct summation reads

$$Z = \sum_{r=0}^{r=\tilde{N}/2} \frac{\tilde{N}! \exp(-2r\beta F_k)}{(\tilde{N} - 2r)!(2r)!} = \frac{1}{2}[1 + \exp(-\beta F_k)]^{\tilde{N}} + \frac{1}{2}[1 - \exp(-\beta F_k)]^{\tilde{N}}, \quad (\text{A1})$$

where the last equality is as previously presented. The remaining derivation is unchanged.