

ERRATA FOR: AN IDENTITY FOR SUMS OF POLYLOGARITHM FUNCTIONS

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Errata

Equation (5) in Theorem 1 should read:

$$\begin{aligned} a_{\ell,2\ell}\text{Li}_{-2\ell}(x) + \cdots + a_{\ell,0}\text{Li}_0(x) &= \frac{(2\ell)!}{2} \frac{x^\ell(1+x)}{(1-x)^{2\ell+1}} \\ b_{\ell,2\ell+1}\text{Li}_{-2\ell-1}(x) + \cdots + b_{\ell,0}\text{Li}_0(x) &= (2\ell+1)! \frac{x^\ell(1+x)}{(1-x)^{2\ell+2}}. \end{aligned}$$

Equation (17) should read:

$$\sum_{k=1}^{\infty} \sum_{i=0}^{2\ell} a_{\ell,i} k^i x^k = c_{2\ell} \frac{x^\ell(1+x)}{(1-x)^{2\ell+1}}.$$