**Erratum: rf system models for the CERN Large Hadron
Collider with application to longitudinal dynamics
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We have identified an omission in our recent paper. A negative sign is missing from the exponent in Eq. (14). The corrected equation is

$$\sigma_l + j\Delta\omega_l = \frac{\eta q I_o}{2\beta^2 \omega_s E_o T_o} \sum_{p=-\infty}^{\infty} Z(\omega) \omega e^{-\sigma_\tau^2 \omega^2}. \quad (1)$$

The results and conclusions of the article are not effected.