Errata of the article:

Eigenfunctions of Two-Scale Difference Equations with Dilation Parameter and Infinite Products

by

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As editor I again have to apologize that due to incompatibility of different TEX programs some equality signs are eliminated by our programs. Below you will find the corrections.

Heinrich Wefelscheid

page 93, formula (1.1)

$$\lambda \psi \left(\frac{t}{\alpha} \right) = \sum_{\nu=0}^{\infty} d_{\nu} \psi(t - \nu) \quad (t \in \mathbb{R})$$

page 95, formula (2.2)

$$\frac{E_{\nu}(w)}{(1-w)^{\nu+1}} = \sum_{\mu=1}^{\infty} \mu^{\nu} w^{\mu-1} \quad (\nu \in \mathbb{N}_0)$$

page 96, formula after (2.4)

$$\sum_{\mu=1}^{\infty} q_n(ak + a\mu) w^{k+\mu-1} = w^k \sum_{\nu=0}^n \frac{a^{\nu} q_n^{(\nu)}(ak)}{\nu!} \frac{E_{\nu}(w)}{(1-w)^{\nu+1}} \quad (|w| < 1)$$

page 96, formula after (2.5)

$$\lambda \psi_n \left(\frac{\mu}{\alpha} \right) = \sum_{\nu=0}^{\mu-1} d_{\nu} \psi_n(\mu - \nu)$$

page 97, formula (2.9)

$$\lambda \sum_{\nu=0}^{M_0} \beta_{\nu} \psi \left(\frac{t - \nu}{\alpha} \right) = \sum_{\nu=0}^{N_0} \alpha_{\nu} \psi(t - \nu) \quad (t \in \mathbb{R})$$

page 97, formula (3.1)

$$\mathcal{L}\{\psi_{-1}\} = \prod_{\nu=1}^{\infty} T(e^{-z/\alpha^\nu})$$

page 97, formula after (3.2)

$$\mathcal{L}\{\psi^{(-1)}\} = \frac{1}{z}\mathcal{L}\{\psi\} = \frac{1}{z}\Psi(z) = \frac{c}{z} + \frac{1}{z}(\Psi(z) - c) \quad (\operatorname{Re} z > 0)$$

page 99, formula before (4.1)

$$G(\alpha z) = \prod_{\nu=0}^{\infty} \frac{P_0(e^{-z/\alpha^\nu})}{Q_0(e^{-z/\alpha^\nu})}$$

page 100, formula (4.5)

$$G(2^{k+1}z) = G(z) \prod_{j=0}^k \frac{P_0(e^{-2^j z})}{Q_0(e^{-2^j z})} = G(z) \frac{P_0(e^{-2^k z}) \dots P_{k-1}(e^{-2z}) P_k(e^{-z})}{Q_0(e^{-z}) \dots Q_{k-1}(e^{-z}) Q_k(e^{-z})}$$

page 103, formula (5.9)

$$w^q - \zeta_k = \prod_{\ell=0}^{q-1} (w - \eta_k e^{2\pi i \ell / q})$$

page 103, formula after (5.9)

$$\prod_{k=0}^{p-1} (w^q - \zeta_k) = \prod_{k=0}^{p-1} \prod_{\ell=0}^{q-1} (w - \xi_0 e^{2\pi i k/p} e^{2\pi i \ell / q}) = w^{pq} - \xi_0^{pq}$$

page 104, formula after (5.10)

$$G(z) = \prod_{\mu=1}^m Q(e^{-pz/\alpha^\mu}) \prod_{\nu=1}^{\infty} P(e^{-z/\alpha^\nu})$$

page 104, formula (5.11)

$$G(\alpha z) = Y_0(z) \prod_{\nu=0}^{\infty} \frac{P(e^{-z/\alpha^\nu})}{R(e^{-z/\alpha^\nu})}$$

page 105, last formula

$$w^{p^\ell} - \zeta = (1 - \zeta) f_1(w^{p^{\ell-1}}) f_2(w^{p^{\ell-2}}) \dots f_\ell(w)$$

page 107, formula (6.6)

$$\sigma_L = q \sum_{\mu=0}^{m-1} M \alpha^\mu = M \frac{p-q}{\alpha-1}$$

page 108, formula (7.2)

$$\lambda \varphi\left(\frac{t}{\alpha}\right) = \sum_{\nu=0}^N c_\nu \varphi(t - \nu) \quad (t \in \mathbb{R})$$

page 109, formula before (7.7)

$$\Psi(\alpha z) = S(e^{-\alpha z})\Phi(\alpha z) = \frac{Q(e^{-pz})}{Q(e^{-qz})}S(e^{-z})P(e^{-z})\Phi(z)$$

page 111, formula after (8.6)

$$\sum_{n=0}^{\infty} \gamma_n z^n = \sum_{\ell=0}^L s_{\ell} e^{-\sigma_{\ell} z} \sum_{\nu=0}^{\infty} a_{\nu} z^{\nu}$$