Corrections

The multiconfiguration time-dependent Hartree (MCTDH) method:
A highly efficient algorithm for propagating wavepackets

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In Eqs. (B.31), (B.33), and (B.40) a " π " is missing.

In Eq. (B.43) the expression (l+m)!/(l-m)! is to be replaced by its reciprocal value.

In Eq.(B.51) c_{l-1}^2 must be replaced by c_{l+1}^2 In Eq.(B.65) $-\frac{1}{3}$ must be replaced by $\frac{1}{3}$

The corrected equations read:

$$\varphi_{j}(x) = \left(2^{j} j!\right)^{-1/2} \left(m\omega/\pi\right)^{1/4} H_{j}\left(\sqrt{m\omega}\left(x - x_{\text{eq}}\right)\right) \times \exp\left(-\frac{1}{2} m\omega\left(x - x_{\text{eq}}\right)^{2}\right)$$
(B.31)

$$w_{\alpha}^{1/2} = (m\omega/\pi)^{-1/4} \exp\left(\frac{1}{2} m\omega (x_{\alpha} - x_{\rm eq})^2\right) U_{0\alpha}$$
 (B.33)

$$w_{\alpha}^{1/2} = \pi^{1/4} (m\omega)^{-3/4} (x - x_0)^{-1} \exp\left(\frac{1}{2} m\omega (x_{\alpha} - x_{\text{eq}})^2\right) U_{1\alpha}$$
 (B.40)

$$\varphi_{l-m+1}(\theta) = \tilde{P}_l^m(\theta) = (-1)^m \sqrt{\frac{2l+1}{2} \frac{(l-m)!}{(l+m)!}} P_l^m(\cos \theta)$$
 (B.43)

$$c_{l+2} c_{l+1} \tilde{P}_{l+2}^{m}(x) + \left(c_l^2 + c_{l+1}^2 - x^2\right) \tilde{P}_l^{m}(x) + c_l c_{l-1} \tilde{P}_{l-2}^{m}(x) = 0$$
 (B.51)

$$D_{\alpha\beta}^{(2),\text{DVR}} = -\left(\frac{\pi}{\Delta x}\right)^2 \begin{cases} \frac{1}{3} + \frac{1}{6(N+1)^2} - \frac{1}{2(N+1)^2 \sin^2\left(\frac{\alpha\pi}{N+1}\right)}, & \alpha = \beta \\ \frac{2(-1)^{\alpha-\beta}}{(N+1)^2} \frac{\sin\left(\frac{\alpha\pi}{N+1}\right)\sin\left(\frac{\beta\pi}{N+1}\right)}{\left(\cos\left(\frac{\alpha\pi}{N+1}\right)-\cos\left(\frac{\beta\pi}{N+1}\right)\right)^2}, & \alpha \neq \beta \end{cases}$$
(B.65)

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