

List of known errata

Splitting methods for differential equations, *Acta Numerica* (2024), 1-161

April 17, 2025

- Page 16, first line of equation (1.39):

$$H_1(\hat{q}, \hat{p}) = \frac{1}{2\hat{m}_0} \hat{p}_0^T \hat{p}_0 + \sum_{i=1}^{N-1} \left(\frac{1}{2\hat{m}_i} \hat{p}_i^T \hat{p}_i - G \frac{m_0 m_i}{\|\hat{q}_i\|} \right)$$

- Page 78, un-numbered equation before eq. (5.25) should read

$$\psi_h(x) - \varphi_h(x) = e^{hA} \left(h \sum_{k \in \mathcal{I}} \delta_k(h) g_k(x_0) + h^2 \sum_{k, \ell \in \mathcal{I}} \delta_{k\ell}(h) g'_\ell(x_0) g_k(x_0) + \mathcal{O}(h^3) \right),$$

- Page 83, un-numbered equation before eq. (5.50) should read

$$\kappa_0(h) = 0, \quad \hat{\alpha}_k(h) = \alpha_k(h) \quad \text{for all } k \in \{-m, \dots, -1, 0, 1, \dots, m\}$$