

$$\begin{array}{c}
\psi(t) \quad \times \quad \text{Continuation} \quad \times \quad \text{Evolution} \quad \times \quad \text{Discard} \quad = \quad \psi(t) \quad \times \quad \text{All-in-one} \quad = \quad \psi(t + \Delta t) \\
\\
\begin{array}{c}
\begin{array}{c} N + 2 \cdot N_{\text{ghost}} \\ \longleftrightarrow \\ 1 \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} \times \begin{array}{c} N + 2 \cdot N_{\text{ghost}} \\ \longleftrightarrow \\ N + 2 \cdot N_{\text{ghost}} + N_{\text{ext}} \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} \times \begin{array}{c} N + 2 \cdot N_{\text{ghost}} + N_{\text{ext}} \\ \longleftrightarrow \\ N + 2 \cdot N_{\text{ghost}} + N_{\text{ext}} \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} \times \begin{array}{c} N \\ \longleftrightarrow \\ N \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} \\
= \begin{array}{c} N + 2 \cdot N_{\text{ghost}} \\ \longleftrightarrow \\ 1 \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} \times \begin{array}{c} N \\ \longleftrightarrow \\ N \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix} = \begin{array}{c} N \\ \longleftrightarrow \\ 1 \end{array} \begin{bmatrix} \phantom{0} \end{bmatrix}
\end{array}
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