

$$\Psi(r, t)$$

Position

$$\times \hat{U}_r \left(\frac{dt}{2} \right)$$

FFT

Momentum

$$\times \hat{U}_k(dt)$$

Position

$$\times \hat{U}_r \left(\frac{dt}{2} \right)$$

iFFT

$$\Psi(r, t + dt)$$

