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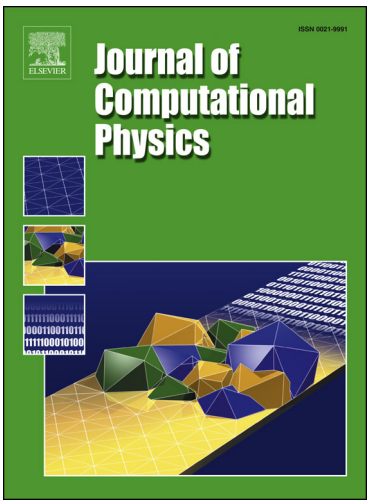

Numerical solution of stochastic quantum master equations by exponential schemes

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Highlights

- Stochastic master equations (SME) with mixed initial state are simulated numerically.
- A trajectory wave function method is proposed for the numerical solution of the SMEs.
- SMEs are represented by systems of non-linear stochastic Schrödinger equations.
- New exponential schemes solve the jump-diffusion stochastic Schrödinger equations.
- Two quantum measurement processes are successfully simulated.

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