

Accepted Manuscript

Supersymmetric quantum mechanics method for the Fokker–Planck equation with applications to protein folding dynamics

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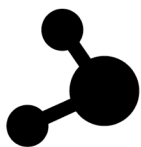
PII: S0378-4371(17)31031-2
DOI: <https://doi.org/10.1016/j.physa.2017.10.021>
Reference: PHYSICA 18735

To appear in: *Physica A*

Received date : 18 May 2017
Revised date : 19 October 2017

Please cite this article as: F. Polotto, E. Drigo Filho, J. Chahine, R.J. de Oliveira, Supersymmetric quantum mechanics method for the Fokker–Planck equation with applications to protein folding dynamics, *Physica A* (2017), <https://doi.org/10.1016/j.physa.2017.10.021>

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Highlights

- The Fokker-Planck equation is mapped onto a Schrödinger-type equation.
- The Fokker-Planck equation is solved for the double well potential with the supersymmetric quantum mechanics method.
- Time-dependent probability distributions are obtained with numerical calculations by using the variational method.
- Applications of the method are performed to characterize the kinetics of the cold shock protein with a coarse-grained C_α model.

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