

Accepted Manuscript

Bounded noise induced first-order phase transitions in a baseline non-spatial model of gene transcription

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PII: S0378-4371(17)31208-6
DOI: <https://doi.org/10.1016/j.physa.2017.11.123>
Reference: PHYSA 18891

To appear in: *Physica A*

Received date : 30 November 2016

Revised date : 22 September 2017

Please cite this article as: A. d'Onofrio, G. Caravagna, S. de Franciscis, Bounded noise induced first-order phase transitions in a baseline non-spatial model of gene transcription, *Physica A* (2017), <https://doi.org/10.1016/j.physa.2017.11.123>

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Highlights

- A basic bistable biomolecular network perturbed by bounded noises is studied
- First—order phase transitions are observed and analytically shown
- The observed transition is not a noise--induced transition
- The system in study is non-spatial and it is scalar (dimension $n=1$)
- The property is generalized to a family of scalar models

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