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

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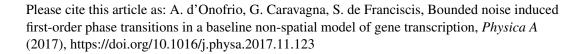
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Highlights

- 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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