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Interactive dynamics controlling symmetry breaking in bidirectional transport systems with narrow entrances

Natasha Sharma, Tripti Midha, Arvind Kumar Gupta

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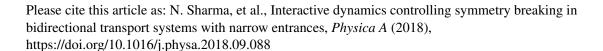
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Highlights (for review)

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- A two-channel bidirectional TASEP model with narrow entrances, including the collective motion of interacting particles is studied.
- The phase diagrams are analyzed theoretically within the near field approximation and substantiated with Monte Carlo simulations.
- The control of interactions on the symmetry breaking 'tructu e is examined.
- The phase properties with strong size dependency have been explored based on simulations findings.
- The impact of correlation strength on system be `avir r has been analyzed.

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