

# Open boundary conditions in stochastic transport processes with tunable short-range interaction

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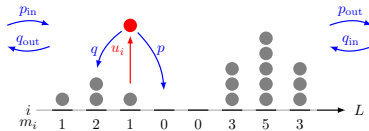
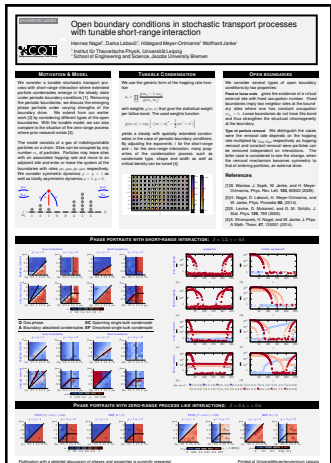
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## Stochastic transport process with condensation in the steady state with periodic boundaries

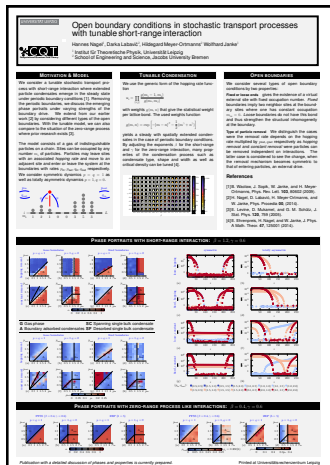
- steady state + condensation independent of external drive

- for open boundaries, external drive leads to dynamic phases in ZRP<sup>12</sup>



<sup>1</sup>E. Levine, D. Mukamel, G. M. Schütz, J. Stat. Phys. **120**, 759 (2005)

<sup>2</sup>HN, D. Labavić, H. Meyer-Ortmanns, W. Janke, Phys. Procedia **57** (2014)



- types of open boundaries and effects on dynamics phases
- dynamic phases
- condensation at the boundaries and in the bulk
- compare to dynamic phases observed for ZRP to test the ZRP-like regime of the considered model