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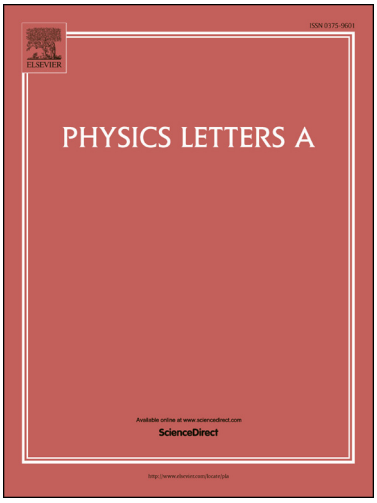

Shortcut with pool under parallel update rule on one-dimensional lattice totally asymmetric simple exclusion process

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Highlights

- The boundaries of phase diagram change with entrance (p) and leaving (q) rates of the pool-shortcut on TASEP.
- The MC/LD/LD and MC/LD/HD phases are a straight line and a point respectively. They are influenced by the shortcut probabilities p and q ($p > q$) only.
- When the variable q reduces from 0.6 to 0.2 (p is fixed, $p = 0.8$), the HD/HD/HD phase region shrinks.

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