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Analyses of lattice hydrodynamic model using delayed feedback control with passing

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### Research Highlights:

1. A lattice model using control theory is proposed by considering the effect of passing.
2. Stability analysis is conducted using control method and the effect of passing on traffic flow is examined.
3. The efficiency of control parameter in controlling traffic jams is shown through Bode plot.
4. Jamming transitions are analyzed through MKdV equation.
5. Theoretical results are validated through simulation.

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