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Stochastic epidemic metapopulation models on networks: SIS dynamics and control strategies

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Highlights

- A stochastic metapopulation SIS epidemic model is proposed on spatial networks
- For large time solutions tend to quasi-stationary distributions in the stochastic setting
- Various controls considered for the treatment of stochastic SIS epidemics on networks
- White noise was shown to be able to counteract the treatment rate.

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