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Mathematics > Probability

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distribution of the number of communities and transmission rates

SIR epidemics on a scale-free spatial nested

modular network with a non-trivial threshold

We propose a class of random scale-free spatial networks with nested community structures and analyze Reed-Frost epidemics with community related independent transmissions. We show that the

epidemic threshold may be trivial or not depending on the relation among community sizes,

Submission history

From: Alberto Gandolfi [view email] [v1] Thu, 7 Jul 2011 22:04:05 GMT (39kb,D)

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