Time evolution of epidemics on complex networks

Pierre-André Noël, Antoine Allard, Louis J. Dubé

Département de physique, de génie physique, et d'optique Faculté des Sciences et de Génie, Université Laval, Québec, Canada

We study neighbour-to-neighbour dynamical propagation on complex networks with an analytical time evolution approach. The finite size of the system is taken into account and results are compared to numerical simulations. The new formalism has multiple applications in a wide range of domains from epidemiology in human populations to propagation of rumours and computer viruses.

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Contact persons: <u>pierre-andre.noel.1@ulaval.ca</u>, ljd@phy.ulaval.ca