



Colloquium

Wednesday September 27, 2006

1:00pm Room 08-2130

**MODELING EPIDEMICS:
FROM THE CONTINUOUS TO THE DISCRETE**

Chris Leary
SUNY Geneseo

We discuss a small sample ($N = 3$) of mathematical models of disease dynamics. Starting with a classic differential equations compartmental model we contrast this with an individual-based simulation models developed at Geneseo and at the University of Tübingen. We examine R_0 , the basic reproduction number and see how its interpretation varies in the discrete setting.

This talk should be accessible to anyone possessing a nodding familiarity with differentiation.

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School of Mathematical Sciences Colloquium Series