

PHYSICAL MATHEMATICS SEMINAR

Modeling Diversity in Tumor Populations Through Branching Processes

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ABSTRACT:

In this talk I will discuss a branching process model developed to study intra-tumor diversity (i.e. the variation amongst the cells within a single tumor). In the asymptotic ($t \rightarrow \infty$) regime, we study several ecological measures of diversity in the model. In the latter part of the talk I will discuss an application of this model to study the evolution of diverse drug-resistant populations in Chronic Myeloid Leukemia.

TUESDAY, APRIL 19, 2011

2:30 PM

Building 2, Room 105

Refreshments at 3:30 PM in Building 2, Room 290



Massachusetts Institute of Technology