The University of Chicago
Department of Statistics
Mini-Seminar for First Year Students

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"The Equivalence of Absorbing and Reflecting Barrier Problems for Stochastically Monotone Markov Processes"

TUESDAY May 24, 2005 at 4:30 pm
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

The equivalence between absorbing and reflecting barrier problems for random walks is shown to hold for stochastically monotone Markov processes. For Markov chains in continuous time this relation is expressed directly in terms of the Q-matrices of the chains. This equivalence has applications in the problems such as simulation of Markov processes. Some examples will also be discussed.