Im Arbeitskreis STOCHASTIK

spricht am Dienstag, den 6. November 2007, um 15.45 Uhr

Prof. Dr. P.R. Parthasarathy
Indian University of Technology, Madras

über das Thema

APPLIED BIRTH AND DEATH MODELS

Abstract:

Birth and death processes are widely used to model a variety of applications including queues, inventories, reliability, communication, production management, neutron propagation, optics, chemical reactions, epidemics, genomics, carcinogenesis and population dynamics. The time-dependent behaviour of birth-death processes will be presented by employing analytical and numerical methods. Three-term recurrence relations unite birth-death processes, continued fractions, orthogonal polynomials and tridiagonal matrices and this connection will be exploited for this purpose.

Ort: Raum S 11 (Mathematikgebäude 20.30)

Die DozentInnen der Stochastik