



Indian Academy of Sciences, Bangalore
and
Indian Institute of Technology Bombay
present

Homogenization

a lecture by

Professor S R S Varadhan

(Raman Professor, Indian Academy of Sciences)
(Courant Institute of Mathematical Sciences, New York)

on

Wednesday, 11 February 2009

Time

2.30 p.m.

Venue

P.C. Saxena Auditorium, Indian Institute of Technology Bombay

In many situations, differential equations have coefficients that are highly oscillatory functions. This often arises because of rescaling. One is interested in the behavior of the solutions after rescaling. The limit usually satisfies a similar differential equation which is homogeneous in the space variables. The problem is to prove it and identify the equation. We will study examples of different types.

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