



Workshop on Multi- Scale Analysis and Homogenization
IISc Mathematics Initiative
Department of Mathematics, Indian Institute of Science, Bangalore



June 28 - July 02, 2010

Venue : Lecture Hall I, Department of Mathematics, IISc

June 28, 2010 : Registration 09.00 am

Date	09:30 - 10:30	10:30 - 11:00	11:00 - 12:00	12:00 - 01:00	01:00 - 02:30	02:30- 03:30	03:30 - 04:00	04:00 - 05:00
28.06.2010 Monday	MV1	Tea	MR	PSD	Lunch	MV1	Tea	MR
29.06.2010 Tuesday	AKN1		PSD	MR		AKN1		PSD
30.06.2010 Wednesday	MV2		AKN1	SG		TM		SG
01.07.2010 Thursday	MV2		AKN2	TM		SG		JLW
02.07.2010 Friday	AKN2		JLW	TM		MV2		JLW

	Speaker	Title
MV1	M. Vanninathan	Survey of Homogenization: Methods and Related Topics
MR	Mythily Ramaswamy	Sobolev Spaces, weak formulation
AKN1	A. K. Nandakumaran	Homogenization, Energy/Compensated Method
PSD	P. S. Datti	Some Mathematical Aspects of Navier-Stokes Equations and Related Topics
MV2	M. Vanninathan	Homogenization, Bloch Wave Method
SG	Sivaji Ganesh	Homogenization and Multi - Scale Convergence
AKN2	A. K. Nandakumaran	Homogenization on Porous Media
TM	T. Muthukumar	Gamma Convergence and Homogenization
JLW	J. L. Woukeng	Sigma Convergence



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July 05 - July 09, 2010

Venue : Lecture Hall I, Department of Mathematics, IISc

Date	09:30 - 10:30	10:30 - 11:00	11:00 - 12:00	12:00 - 01:00	01:00 - 02:30	02:30- 03:30	03:30 - 04:00	04:00 - 05:00
05.07.2010 Monday	GM	Tea	GN	AH	Lunch	GN	Tea	AH
06.07.2010 Tuesday	GM		GN	PD		AH		-
07.07.2010 Wednesday	GM		GA	PD		HO		MB
08.07.2010 Thursday	ALP		GA	PD		MB		HO
09.07.2010 Friday	ALP		GA	MB		HO		ALP

	Speaker	Title
GM	Graeme Milton	The effective moduli of composites: exact relations and links & Variational principles for time harmonic waves in dissipative media
HO	Houman Owhadi	Homogenization with non-separated scales
GN	Gabriel G. Nguetseng	
PD	Patrizia Donato	Homogenization of the wave equation in composites with imperfect interface: A memory effect
GA	Gregoire Allaire	Two-scale convergence with drift and applications to high frequency homogenization for the wave equation and the Schrodinger equation
MB	Marc Briane	Homogenization of two-dimensional high-contrast problems by two approaches
ALP	Andrey L. Piatnitski	Homogenization of nonlinear equation in perforated domains with centered Fourier boundary condition
AH	Anders Holmbom	1. On two-scale convergence and some related modes of convergence: 2. Parabolic homogenization I: 3. Parabolic homogenization II: