

Conference on Multi - Scale Analysis and Homogenization IISc Mathematics Initiative Department of Mathematics, Indian Institute of Science, Bangalore		
July 12 - 14, 2010 Venue : Lecture Hall I, Department of Mathematics, IISc		
Monday July 12, 2010		
09.00 - 09.30	Registration	
Session I		
Time	Name	Title
09.30 - 10.15	Graeme Milton,	Complete characterization and synthesis of the elastodynamic response function of spring networks
10.15 - 11.00	M. Vanninathan,	On Burnett Coefficients in Periodic Structures
Session II		
11.00 - 11.30	Tea Break	
11.30 - 12.15	Gregoire Allaire,	Optimal Design In Small Amplitude Homogenization
12.15 - 01.00	Patrizia Donato,	The periodic unfolding method in domains with holes
01.00 - 02.30	Lunch	
Session III		
02.30 - 03.15	K. T. Joseph,	Vanishing viscosity and capillarity effects in conservation laws
03.15 - 04.00	Phoolan Prasad,	A special perturbation scheme for a multi-scale problem in multi-dimensions
04.00 - 04.30	Tea Break	
Session IV		
04.30 - 05.15	Andrey L. Piatnitski,	Homogenization of spectral problems with sign-changing weight function
05.15 - 06.00	Gabriel G. Nguetseng	

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Tuesday July 13, 2010

Session V

Time	Name	Title
09.30 - 10.15	Adimurthi ,	Existence and Non existence of TV bounds for conservation laws with discontinuous fluxes
10.15 - 11.00	Marc Briane ,	A revisited drift homogenization problem
11.00 - 11.30	Tea Break	
Session VI		
11.30 - 12.15	S. M. Deshpande ,	Rresolution of multiscale flow features by minimization of numerical dissipation
12.15 - 01.00	E. K. Narayanan ,	Spherical means with centers on a hyperplane in even dimensions
01.00 - 02.30	Lunch	
Session VII		
02.30 - 03.15	Ali Sili ,	Asymptotic behaviour of the solutions of the linearized system of elasticity in a highly heterogeneous periodic medium
03.15 - 03.45	Tea Break	
Session VIII		
03.45 - 04.30	B. V. Rathish kumar ,	An Overview of Arlequin Approach for Multiscale / Multimodel Problems
04.30 - 05.15	Anders Holmbom ,	Parabolic homogenization with various combinations of scales

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Wednesday July 14, 2010

Session IX

Time	Name	Title
09.30 - 10.15	Antonio Gaudiello ,	Elastic models as limit of a Kirchhoff-Love plate
10.15 - 11.00	Prashanth K. Srinivasan ,	Uniqueness of minimal energy solutions for critical Neumann problems
11.00 - 11.15	Tea Break	
Session X		
11.15 - 12.00	B. Sri Padmavathi ,	Stokes flow past rigid bodies of arbitrary shape
12.00 - 12.45	Houman Owhadi ,	Homogenization in time of mechanical systems
12.45 - 01.30	Mythily Ramaswamy ,	Stabilizability of linearized compressible Navier-Stokes System in one dimension
01.30 - 03.00	Lunch	
Session XI		
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