

Joint Research Workshop of Institute of Mathematics for Industry, Kyushu University &
MEXT Collaborative Workshop of Mathematics and Mathematical Sciences with Various Sciences and Industrial Technologies 2011
Multiscale Mathematics: Hierarchy of Collective Phenomena and Interrelations between Hierarchical Structures
Center No1, Ito Campus, Kyushu University

December 9		December 10		December 11	
		9:20-9:30	Review of the 1st day	9:20-9:30	Review of the 2nd day
		9:30-10:10	<p style="text-align: center;">Phillip J. MORRISON</p> <p>On the Hamilton-Jacobi variational formulation of the Vlasov equation</p> <p style="text-align: center;">University of Texas at Austin</p>	9:30-10:10	<p style="text-align: center;">Naoyuki ISHIMURA</p> <p>On the evolution of copula</p> <p style="text-align: center;">Hitotsubashi University</p>
		10:10-10:50	<p style="text-align: center;">Masaru FURUKAWA</p> <p>A new solution method for singular perturbation problems in magnetized plasmas</p> <p style="text-align: center;">The University of Tokyo</p>	10:10-10:50	<p style="text-align: center;">Kazuya KAMIYA</p> <p>Real indeterminacy of stationary equilibria in matching models with divisible money</p> <p style="text-align: center;">The University of Tokyo</p>
		10:50-11:00	COFFEE BREAK	10:50-11:00	COFFEE BREAK
		11:00-11:40	<p style="text-align: center;">Mitsuteru ASAI</p> <p>Multi-scale modeling in heterogeneous material properties</p> <p style="text-align: center;">Kyushu University</p>	11:00-11:40	<p style="text-align: center;">Snezhana I. ABARZHI</p> <p>The effect of heterogeneities and noise on pattern formation and chaos development</p> <p style="text-align: center;">University of Chicago</p>
		11:40-12:20	<p style="text-align: center;">Daisuke TAGAMI</p> <p>Efficient numerical computations on large scale electromagnetic field problems using an iterative domain decomposition method</p> <p style="text-align: center;">Kyushu University</p>	11:40-12:20	<p style="text-align: center;">Zensho YOSHIDA</p> <p>Self-organization in a foliated phase space</p> <p style="text-align: center;">The University of Tokyo</p>
13:00-13:10	Opening	12:20-13:40	LUNCH	12:20-12:30	Closing
13:10-13:50	<p style="text-align: center;">Junichi NAKAGAWA</p> <p>Mathematical Modelling for soil contamination — Creating an interdisciplinary platform for taking aim at mathematical innovation —</p> <p style="text-align: center;">Nippon Steel Corporation</p>	13:40-14:20	<p style="text-align: center;">Makoto HIROTA</p> <p>Variational approach to multi-scale dynamical system — an application to collisionless magnetic reconnection —</p> <p style="text-align: center;">Japan Atomic Energy Agency</p>		
13:50-14:30	<p style="text-align: center;">Masato SHINODA</p> <p>Existence of phase transition of percolation on fractal lattices</p> <p style="text-align: center;">Nara Women's University</p>	14:20-15:00	<p style="text-align: center;">Shigeo YODEN</p> <p>Multiscale characteristics of moist convections and heavy precipitation in the tropics</p> <p style="text-align: center;">Kyoto University</p>		
14:30-15:10	<p style="text-align: center;">Vladmir CHALUPECKY</p> <p>A Multi-scale model of biogenic concrete corrosion</p> <p style="text-align: center;">Kyushu University</p>	15:00-15:40	<p style="text-align: center;">Mitsuhiro TORIUMI</p> <p>Dimension reduction study of microseismicity rate in the plate boundary zones</p> <p style="text-align: center;">JAMESTEC</p>		
15:10-15:40		15:40-16:10		COFFEE BREAK	
15:40-16:20	<p style="text-align: center;">Shu TAKAGI</p> <p>Surfactant effect on the multiscale structure of bubbly flows</p> <p style="text-align: center;">The University of Tokyo</p>	<p>Panel Discussion Toward a mathematical understanding of multi-scales and its application</p>			
16:20-17:00	<p style="text-align: center;">Takeshi AOYAGI</p> <p>Multiscale simulation for polymer material design</p> <p style="text-align: center;">Asahi Kasei Corporation</p>				
17:00-17:40	<p style="text-align: center;">Ryusuke NUMATA</p> <p>Multiscale simulation of nonlinear phenomena of plasmas</p> <p style="text-align: center;">University of Hyogo</p>				
		18:00-20:00	<p style="text-align: center;">Banquet Chinese Restaurant "Ten Ten" Ito Campus</p>		