

Multiscale Analysis and Methods for Quantum and Kinetic Problems

Tutorial Lectures II & Junior researcher session
(13–17 Feb 2023)



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Venue

IMS Auditorium
Institute for Mathematical Sciences
3 Prince George's Park
Singapore 118402

For more information: [Click here](#)

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(13–17 February 2023)

Monday, 13 February 2023

Time	Title	Speaker
0945–1000	Registration	
1000–1100	<i>Distinguished Visitor Lecture Series</i> Mathematical analysis of models for living tissues and free boundary problems (I)	Benoît Perthame Sorbonne Université, France
1100–1130	<i>Coffee Break</i>	
1130–1230	<i>Distinguished Visitor Lecture Series</i> Mathematical analysis of models for living tissues and free boundary problems (II)	Benoît Perthame Sorbonne Université, France
1230–1400	Lunch Break	
1400–1500	TBA	Alexander Ostermann Universität Innsbruck, Austria
1500–1530	<i>Coffee Break</i>	
1530–1630	TBA	Alexander Ostermann Universität Innsbruck, Austria

Tuesday, 14 February 2023

Time	Title	Speaker
0945–1000	Registration	
1000–1100	<i>Distinguished Visitor Lecture Series</i> Mathematical analysis of models for living tissues and free boundary problems (III)	Benoît Perthame Sorbonne Université, France
1100–1130	<i>Coffee Break</i>	
1130–1230	<i>Distinguished Visitor Lecture Series</i> Mathematical analysis of models for living tissues and free boundary problems (IV)	Benoît Perthame Sorbonne Université, France
1230–1400	Lunch Break	
1400–1500	TBA	Alexander Ostermann Universität Innsbruck, Austria
1500–1530	<i>Coffee Break</i>	
1530–1630	TBA	Alexander Ostermann Universität Innsbruck, Austria

Wednesday, 15 February 2023		
Time	Title	Speaker
0945–1000	Registration	
1000–1100	Error estimates of splitting methods for the nonlinear Schrödinger equation (I)	Chunmei Su Tsinghua University China
1100–1130	<i>Coffee Break</i>	
1130–1230	Error estimates of splitting methods for the nonlinear Schrödinger equation(II)	Chunmei Su Tsinghua University China
1230–1400	Lunch Break	
1400–1500	Error estimates of splitting methods for the nonlinear Schrödinger equation (III)	Chunmei Su Tsinghua University China
1500–1530	<i>Coffee Break</i>	
Junior Researcher Session		
1530–1600	Towards a new mathematical model of the visual cycle	Luca Alasio Sorbonne Université, France
1600–1630	A boundary element method for the Time Dependent Ginzburg Landau 3D model	Cyril Tain Université de Rouen Normandie, France
1630–1700	Numerical methods for the biharmonic nonlinear Schrödinger equation	Teng Zhang Beijing Computational Science Research Center, China
1700–1730	Two-tube model of miscible displacement: travelling waves and normal hyperbolicity	Yulia Petrova Instituto de Matemática Pura e Aplicada- IMPA, Brazil

Thursday, 16 February 2023		
Time	Title	Speaker
0945–1000	Registration	
1000–1100	Introduction to dipolar quantum gases(I)	Blair Blakie University of Otago, New Zealand
1100–1130	<i>Coffee Break</i>	
1130–1230	Introduction to dipolar quantum gases(II)	Blair Blakie University of Otago, New Zealand
1230–1400	Lunch Break	
1400–1500	Introduction to dipolar quantum gases(III)	Blair Blakie University of Otago, New Zealand
1500–1530	<i>Coffee Break</i>	
1530–1630	Introduction to dipolar quantum gases(IV)	Blair Blakie University of Otago, New Zealand

Friday, 17 February 2023		
Time	Title	Speaker
0945–1000	Registration	
1000–1100	Numerical analysis for dispersive equations: from classical regime to oscillatory regime (I)	Yongyong Cai Beijing Normal University, China
1100–1130	<i>Coffee Break</i>	
1130–1230	Numerical analysis for dispersive equations: from classical regime to oscillatory regime (II)	Yongyong Cai Beijing Normal University, China
1230–1400	Lunch Break	
1400–1500	Numerical analysis for dispersive equations: from classical regime to oscillatory regime (III)	Yongyong Cai Beijing Normal University, China
1500–1530	<i>Coffee Break</i>	
1530–1630	Numerical analysis for dispersive equations: from classical regime to oscillatory regime (IV)	Yongyong Cai Beijing Normal University, China

This schedule is accurate as of 26 Jan 2023.