

| Multiscale Analysis and Methods for Quantum and Kinetic Problems Tutorial Lectures II \& Junior researcher session (13-17 February 2023) |  |  |
| :---: | :---: | :---: |
| Monday, 13 February 2023 |  |  |
| Time | Title | Speaker |
| 0945-1000 | Registration |  |
| 1000-1100 | Distinguished Visitor Lecture Series Mathematical analysis of models for living tissues and free boundary problems (I) | Benoît Perthame Sorbonne Université, France |
| 1100-1130 | Coffee Break |  |
| 1130-1230 | Distinguished Visitor Lecture Series Mathematical analysis of models for living tissues and free boundary problems (II) | Benoît Perthame Sorbonne Université, France |
| 1230-1400 | Lunch Break |  |
| 1400-1500 | Integration of NLS with low regularity initial data | Alexander Ostermann Universität Innsbruck, Austria |
| 1500-1530 | Coffee Break |  |
| 1530-1630 | Integration of NLS with low regularity initial data | Alexander Ostermann <br> Universität Innsbruck, Austria |
| Tuesday, 14 February 2023 |  |  |
| Time | Title | Speaker |
| 0945-1000 | Registration |  |
| 1000-1100 | Distinguished Visitor Lecture Series <br> Mathematical analysis of models for living tissues and free boundary problems (III) | Benoît Perthame Sorbonne Université, France |
| 1100-1130 | Coffee Break |  |
| 1130-1230 | Distinguished Visitor Lecture Series Mathematical analysis of models for living tissues and free boundary problems (IV) | Benoît Perthame <br> Sorbonne Université, France |
| 1230-1400 | Lunch Break |  |
| 1400-1500 | Integration of NLS with low regularity initial data | Alexander Ostermann <br> Universität Innsbruck, Austria |
| 1500-1530 | Coffee Break |  |
| 1530-1630 | Integration of NLS with low regularity initial data | Alexander Ostermann <br> 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 <br> Tsinghua University China |
| 1100-1130 | Coffee Break |  |
| 1130-1230 | Error estimates of splitting methods for the nonlinear Schrödinger equation(II) | Chunmei Su <br> Tsinghua University China |
| 1230-1400 | Lunch Break |  |
| 1400-1500 | Error estimates of splitting methods for the nonlinear Schrödinger equation (III) | Chunmei Su <br> Tsinghua University China |
| 1500-1530 | Coffee Break |  |
| Junior Researcher Session |  |  |
| 1530-1600 | Towards a new mathematical model of the visual cycle | Luca Alasio <br> Sorbonne Université, France |
| 1600-1630 | Influence of gauges in TDGL model | Cyril Tain <br> Université de Rouen Normandie, France |
| 1630-1700 | Numerical methods for the biharmonic nonlinear Schrödinger equation | Teng Zhang <br> Beijing Computational Science <br> 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 | $\begin{array}{l}\text { Blair Blakie } \\ \text { University of Otago, New Zealand }\end{array}$ |  |
| $1000-1100$ | Introduction to dipolar quantum gases(I) |  |  |
| $1100-1130$ | Coffee Break | Introduction to dipolar quantum gases(II) |  | \(\left.\begin{array}{l}Blair Blakie \\


University of Otago, New Zealand\end{array}\right]\)| $1130-1230$ | Lunch Break | Blair Blakie <br> University of Otago, New Zealand |
| :--- | :--- | :--- |
| $1230-1400$ | Introduction to dipolar quantum gases(III) |  |
| $1400-1500$ | Coffee Break | Blair Blakie <br> University of Otago, New Zealand |
| $1500-1530$ |  |  |

Friday, 17 February 2023

| Time | Title | Speaker |  |
| :--- | :--- | :--- | :---: |
| $0945-1000$ | Registration |  |  |
| $1000-1100$ | Numerical analysis for dispersive equations: <br> from classical regime to oscillatory regime (I) | Yongyong Cai <br> Beijing Normal University, China |  |
| $1100-1130$ | Coffee Break |  |  |
| $1130-1230$ | Numerical analysis for dispersive equations: <br> from classical regime to oscillatory regime <br> (II) | Yongyong Cai <br> Beijing Normal University, China |  |
| $1230-1400$ | Lunch Break |  |  |
| $1400-1500$ | Numerical analysis for dispersive equations: <br> from classical regime to oscillatory regime <br> (III) | Yongyong Cai <br> Beijing Normal University, China |  |
| $1500-1530$ | Coffee Break | Yongyong Cai <br> Beijing Normal University, China |  |
| $1530-1630$ | Numerical analysis for dispersive equations: <br> from classical regime to oscillatory regime <br> (IV) | Yer |  |

This schedule is accurate as of 14 Feb 2023.

