Winter School
"Bridging multiscale, limited information, and low regularity in computational mathematics"

January 19 - 23, 2026

organized by
Steffen W. R. Werner, Emil Løvbak, Christian Döding, and Moritz Hauck

Time measurement: CET

- **Monday, January 19**

08:30 - 09:00	*Arrival and Registration*
09:00 - 09:05	*Welcome by HIM Director Stefan Müller (TBD)*
09:05 - 10:00	**Robert Scheichl** *An Introduction to Multiscale Methods and Localised Model Reduction (Part I)*
10:00 - 10:30	*Coffee break*
10:30 - 12:00	**Robert Scheichl** *An Introduction to Multiscale Methods and Localised Model Reduction (Part II)*
12:00 - 14:00	*Lunch break*
14:00 - 15:30	**Catherine Powell** *Parametric PDEs: Numerical Methods for Forward UQ & Surrogate Modelling (Part I)*
15:30 - 16:00	*Coffee break*
16:00 - 17:30	**Catherine Powell** *Parametric PDEs: Numerical Methods for Forward UQ & Surrogate Modelling (Part II)*
after 17:30	*Get-Together*

- **Tuesday, January 20**

09:00 - 10:00	**Robert Scheichl** *An Introduction to Multiscale Methods and Localised Model Reduction (Part III)*
10:00 - 10:30	*Group Photo and Coffee break*
10:30 - 12:00	**Robert Scheichl** *An Introduction to Multiscale Methods and Localised Model Reduction (Part IV)*
12:00 - 14:00	*Lunch break*
14:00 - 15:30	**Catherine Powell** *Parametric PDEs: Numerical Methods for Forward UQ & Surrogate Modelling (Part III)*
15:30 - 16:00	*Coffee break*
16:00 - 17:30	**Catherine Powell** *Parametric PDEs: Numerical Methods for Forward UQ & Surrogate Modelling (Part IV)*

- **Wednesday, January 21**

09:00 - 10:00	**Fabio Nobile** *Multilevel Monte Carlo methods for random differential equations (Part I)*
10:00 - 10:30	*Coffee break*
10:30 - 12:00	**Fabio Nobile** *Multilevel Monte Carlo methods for random differential equations (Part II)*
12:00 - 14:00	*Lunch break*
14:00 - 15:30	**Daniel Peterseim** *An Introduction to Quantum Algorithms for Multiscale PDEs (Part I)*
15:30 - 16:00	*Coffee break*
16:00 - 17:30	**Daniel Peterseim** *An Introduction to Quantum Algorithms for Multiscale PDEs (Part II)*

- **Thursday, January 22**

09:00 - 10:00	**Fabio Nobile** *Multilevel Monte Carlo methods for random differential equations (Part III)*
10:00 - 10:30	*Coffee break*
10:30 - 12:00	**Fabio Nobile** *Multilevel Monte Carlo methods for random differential equations (Part IV)*
12:00 - 14:00	*Lunch break*
after 14:00	*Social event with Dinner*

- **Friday, January 23**

09:00 - 10:00	**Daniel Peterseim** *An Introduction to Quantum Algorithms for Multiscale PDEs (Part III)*
10:00 - 10:30	*Coffee break*
10:30 - 11:30	**Daniel Peterseim** *An Introduction to Quantum Algorithms for Multiscale PDEs (Part IV)*
11:30 - 13:30	*Lunch break*
13:30 - 14:30	**Daniel Peterseim** *An Introduction to Quantum Algorithms for Multiscale PDEs (Part V)*
14:30 - 15:00	*Closing Remarks from the Organizers*