



SFB - Tomography Across the Scales

Fifth Member Meeting

Seegasthof Hotel Hois'n Wirt, Gmunden

September 26-29, 2022

Program

Monday, September 26, 2022

12:00 – 12:30	Arrival
12:30 – 14:00	Lunch
14:00 – 14:30	Welcome and general information Ekaterina Sherina, Uni Wien
14:30 – 15:00	A cheerful reminder of Inverse Problems Theory Simon Hubmer, RICAM Linz
15:00 – 15:45	Overview on cryo-Fluorescence Microscopy Montse López, TU Wien
15:45 – 16:15	Coffee Break
16:15 – 17:00	Motivation for imaging of live biological samples Mia Kvåle Løvmo, Med Uni Innsbruck
17:00 – 17:45	A Fourier approach to X-ray tomography Kamran Sadiq, RICAM Linz
18:00 – 19:30	Dinner
19:30 – 20:30	Evening activity (Discussion round)

Tuesday, September 27, 2022

09:00 – 09:45	How to Grow a Galaxy Prashin Jethwa, Uni Wien
09:45 – 10:30	Approximation Properties of the Double Fourier Sphere Method Michael Quellmalz, TU Berlin
10:30 – 11:00	Coffee Break
11:00 – 11:45	Modelling and localizing particle clusters with Gaussian mixture models Johannes Braitinger, TU Berlin
11:45 – 12:30	Introduction to Phase-sensitive OCE Lisa Krainz, Med Uni Wien
12:30 – 14:00	Lunch
14:00 – 18:00	Excursion
18:00 – 19:30	Dinner
19:30 – 20:30	Evening activity (Team building)

Wednesday, September 28, 2022

09:00 – 09:45	OCT – a mystery for mathematicians Leopold Veselka, Uni Wien
09:45 – 10:30	Trying to understand polarization sensitive OCT (online) Elisabeth Brunner, Med Uni Wien
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 11:45	Incomplete survey on Fourier Phase Retrieval Simon Hubmer, RICAM Linz
11:45 – 12:30	Brainstorming on dissemination and outreach
12:30 – 14:00	<i>Lunch</i>
14:00 – 18:00	Open interdisciplinary collaboration discussion All members in groups
18:00 – 19:30	Dinner

Thursday, September 29, 2022

09:00 – 09:45	Basics of scalar diffraction theory Fabian Hinterer, JKU Linz
09:45 – 10:30	Hidden behind the Papers: The Way of Elastography Ekaterina Sherina, Uni Wien
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 11:45	A mathematician walks into a classroom... Denise Schmutz, Uni Wien
11:45 – 12:30	Organizational questions and future member meetings Simon Hubmer, Prashin Jethwa, Ekaterina Sherina
12:00 – 14:00	<i>Lunch</i>
14:00	Departure