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SFB - Tomography Across the Scales

***Internal Meeting***

Sky Lounge, Oskar-Morgenstern-Platz 1, Universität Wien  
July 4-5, 2018

## Program

### Wednesday, July 4, 2018

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| 12:00 – 13:00 | <i>Lunch Buffet (Sky Lounge)</i>   |
| 13:00 – 13:30 | <b>Acoustic Trapping and Optical Diffraction Tomography</b><br>Mia Kvåle Løvmo, MedUni Innsbruck                     |
| 13:30 – 14:00 | <b>Motion Detection from Projection Data</b><br>Denise Schmutz, Uni Wien   |
| 14:00 – 14:30 | <b>Reconstruction methods for material parameters in the PAT/OCT- setting</b><br>Leopold Veselka, Uni Wien           |
| 14:30 – 15:00 | <i>Coffee Break</i>  |
| 15:00 – 15:30 | <b>PAT combined with OCT and then recombined with Elastography</b><br>Leonidas Mindrinis                             |
| 15:30 – 16:00 | <b>Quantitative Elastography using Photoacoustics and Optical Coherence Tomography</b><br>Julian Schmid, MedUni Wien |
| 16:00 – 16:30 | <b>A modified Landweber driven by expert knowledge</b><br>Andrea Aspri, RICAM Linz                                   |

## Thursday, July 5, 2018

09:00 – 09:30	<b>Realtime PAT Reconstruction - Experiences with Translating an Algorithm to Run on a GPU</b> Axel Kittenberger, Uni Wien
09:30 – 10:00	<b>Wavefront reconstruction with pyramid sensors on segmented pupils</b> Victoria Hutterer, JKU, Linz
10:00 – 10:30	<b>Two-Point Gradient Methods for Nonlinear Ill-Posed Problem</b> Simon Hubmer, RICAM Linz
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 11:30	<b>Super-Resolution Microscopy: Method and Challenges</b> Magdalena Schneider, TU Wien
11:30 – 12:00	<b>Ultra-high resolution microscopy of oligomeric protein structures</b> Montse López, TU Wien
12:00 – 13:00	<i>Lunch</i>
13:00 – 15:00	<b>Project discussions</b>