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SFB - Tomography Across the Scales

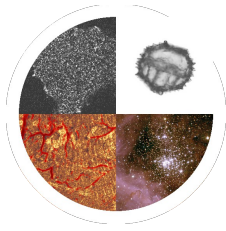
Sixth Internal Meeting (online)

30.11 – 01.12.2020

Program

Monday, November 30th, 2020

09:00 – 09:10	Introduction and Welcome Otmar Scherzer (University of Vienna, Austria)
09:10 – 12:30	PI Session: Status reports and Future plans
09:10 – 09:35	Wolfgang Drexler (Medical University of Vienna, Austria)
09:35 – 10:00	Peter Elbau (University of Vienna, Austria)
10:00 – 10:25	Ronny Ramlau (RICAM, Linz, Austria)
10:25 – 10:50	Monika Ritsch-Marte (Medical University of Innsbruck, Austria)
10:50 – 11:15	Otmar Scherzer (University of Vienna, Austria)
11:15 – 11:40	Gerhard Schütz (TU Wien, Austria)
11:40 – 12:05	Gabriele Steidl (TU Berlin, Germany)
12:05 – 12:30	Glenn van de Ven (University of Vienna, Austria)
12:30 – 14:00	<i>Lunch break</i>



14:00 – 17:50

Project Presentation Session: Update Reports

14:00 – 14:40

Session: **“Quantitative Imaging”**

14:00 – 14:10

Update on Quantitative OCT

Lisa Krainz (Medical University of Vienna, Austria)

14:10 – 14:20

Progress on Parameter Reconstruction in OCT

Leopold Veselka (University of Vienna, Austria)

14:20 – 14:30

Working with real OCT data

Leonidas Mindrinos (University of Vienna, Austria)

14:30 – 14:40

Discussion

14:40 – 15:20

Session: **“Astrophysics”**

14:40 – 15:00

Uncertainty Quantification for Population-Kinematic Galaxy Decompositions

Prashin Jethwa and Fabian Kai Parzer (University of Vienna, Austria)

15:00 – 15:20

Frames for Tomography and Galactic Kaczmarz

Simon Hubmer (RICAM, Austria)

15:20 – 16:00

Session: **“Trapped Particles”**

15:20 – 15:30

Tba

Mia Kvåle Løvmo (Medical University of Innsbruck)

15:30 – 15:40

Reconstruction Formulae in Diffraction Tomography based on NFFTs and Backpropagation

Michael Quellmalz (TU Berlin, Germany)

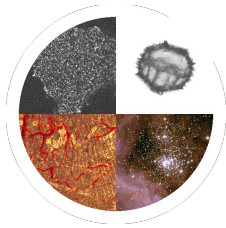
15:40 – 15:50

Reconstruction Formulae for Diffraction Tomography

Clemens Kirisits (University of Vienna, Austria)

15:50 – 16:00

Discussion



16:00 – 16:30

Coffee break

16:30 – 17:10

Session **“Adaptive Optics”**

16:30 – 16:40

In-vivo validation of the pyramid wavefront sensor for AO-OCT
Elisabeth Brunner (Medical University of Vienna, Austria)

16:40 – 16:50

Tba
Günter Auzinger (JKU Linz)

16:50 – 17:00

Tba
Julia Shatokhina (RICAM, Austria)

17:00 – 17:10

Discussion

17:10 – 17:50

Session: **“Super Resolution”**

17:10 – 17:30

Updates on cryo-superresolution microscopy - Setup and measurements
Magdalena Schneider (Technical University of Vienna)

17:30 – 17:50

Tba
Fabian Hinterer (University of Linz, Austria)

Tuesday, December 1st, 2020

09:00 – 13:00

Project Discussion Session: Research Plans and Collaborations

09:00 – 10:00

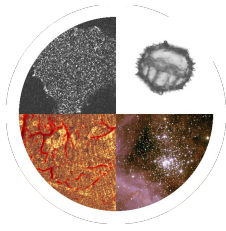
Sub-project: **“Imaging of Trapped Particles”**

Chair: Monika Ritsch-Marte (Medical University of Innsbruck, Austria)

10:00 – 11:00

Sub-project: **“Ultra-high Resolution Microscopy”**

Chair: Gerhard Schütz (TU Wien, Austria)



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11:00 – 12:00

Sub-project: **“Tomography in Astronomy”**

Chair: Glenn van de Ven (University of Vienna, Austria)

12:00 – 13:00

Sub-project: **“Multi-Modal Imaging”**

Chair: Wolfgang Drexler (Medical University of Vienna, Austria)

13:00 – 14:30

Lunch Break

14:30 – 16:00

PI Meeting

16:00 – 17:30

Member Meeting