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JOHANN · RADON · INSTITUTE  
FOR COMPUTATIONAL AND APPLIED MATHEMATICS



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## The 7th SFB Member Meeting

Hotel Goisererhof, Bad. Goisern  
September 9–12, 2024

### Programme

Each three hour *session* consists of three 45 minutes contributions plus a flexible coffee break.

#### Monday, September 9

Chairing: Prashin Jethwa

12:00                   Arrival

12:30 – 14:00       Lunch

14:00 – 17:00       **Session 1**

##### **Lasers**

Lisa Krainz, Med. Uni. Wien

##### **Enhancing Scientific Presentations with Animated GIFs using Manim: A Diffusion MRI Example.**

Zheyi Yang, Uni. Wien

##### **The Art of Secret Communication**

Sonia Foschiatti, Uni. Wien

18:00 – 19:30       Dinner

19:30 – ...           **Evening Activity**

Simon Hubmer

#### Tuesday, September 10

Chairing: Simon Hubmer

9:00 – 12:00

**Session 2**

**How do stellar populations work?**

Alina Boecker, Uni. Wien

**Science communication for kids - introduction and practical insights**

Denise Schmutz, Uni. Wien

**Time-Harmonic Optical Flow with Applications in Elastography**

Michael Quellmalz, TU Berlin

12:30 – 14:00

Lunch

14:00 – 17:00

**Session 3**

**Introduction to Optical Coherence and Photoacoustic Microscopy**

Shiyu Deng, Med. Uni. Wien

**Cryo Single Molecule Localization Microscopy (SMLM): project update**

Montse Lopez, TU Wien

**FES-Cycling - putting people under current**

Martin Schmoll, Med. Uni. Wien

18:00 – 19:30

Dinner

19:30 – ...

**Evening Activity: quiz**

Prashin Jethwa

**Wednesday, September 11**

Chairing: Ekaterina Sherina

9:00 – 12:00

**Session 4**

**An Interactive Introduction to Auction Theory**

Simon Hubmer, JKU Linz

**Bayesian OT flow matching**

Christian Wald, TU Berlin

**Creativity in Research**

Stefanie Reiter, Uni. Wien

12:30 – 14:00

Lunch

14:00 – 17:00

**Afternoon activity: hike**

18:00 – 19:30

Dinner

## Thursday, September 12

Chairing: Prashin Jethwa

9:00 – 12:00

### **Session 5**

#### **Polarisation vision: the amazing mantis shrimp and a bit of math**

Ekaterina Sherina, Uni. Wien

#### **Mathematics: is it nonsense?**

Cristóbal Villalobos Guillén, Uni. Wien

#### **A Guide to Open Source Software Development**

Prashin Jethwa, Uni. Wien

12:30 – 14:00

Lunch

14:00

Departure