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FOR COMPUTATIONAL AND APPLIED MATHEMATICS



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The 8th SFB Member Meeting

Hotel Royal, Bad Ischl
September 9–12, 2025

Programme

Each session consists of three contributions plus coffee break.

Tuesday 9th

Chair: Prashin Jethwa

12:00 Arrival

12:30 – 14:00 Lunch

14:00 – 17:00 **Session 1**

Welcome & PowerPoint Karaoke

SFB Member Speakers

Echoes Through Time: From Bone Flutes to Cell Levitation

Mia Kvåle Løvmo, Med. Uni. Innsbruck

Music and Science

Michael Quellmalz, TU Berlin

Optical Coherence Tomography Angiography

Lisa Krainz, Med. Uni. Wien

18:00 – 19:30 Dinner

Wednesday 10th

Chair: Ekaterina Sherina

8:00 – 9:30 Breakfast

9:30 – 12:30 **Session 2**

Speed Junkies: the origin and fate of the fastest stars in the Galaxy

Prashin Jethwa, Uni. Wien

Beyond Differentiability or How I Learned to Stop Worrying and Love the Roughness

Cristóbal Villalobos Guillén, Uni. Wien

Adaptive Optics for Extremely Large Telescopes

Victoria Laidlaw, JKU

12:30 – 14:00 Lunch

14:00 – 17:00 **Session 3**

Neural Networks and Artificial Intelligence - Building Bridges Between Mathematics and Newspaper Articles

Christina Strohmeier, Uni. Wien

Data-driven regularization in extragalactic archaeology

Ioannis Martikos, Uni. Wien

Short introduction to the weighted Radon transform

Denise Schmutz, Uni. Wien

18:00 – 19:30 Dinner

19:30 – ... **Pub Quiz**

Manuel Cañizares Guerrero, RICAM Linz

Thursday 11th

Chair: Simon Hubmer

8:00 – 9:30 Breakfast

9:30 – 12:30 **Session 4**

What do T cells do for you?

Montse Lopez, TU Wien

Ultrasound-based Elastography Techniques: Data Acquisition and Inverse Problem

Ekaterina Sherina, Uni. Wien

Identification of quantum Hamiltonians: a physical excuse

for mathematical inquiry

Manuel Cañizares Guerrero, RICAM Linz

12:30 – 14:00 Lunch

14:00 – 17:00 **Excursion**

18:00 – 19:30 Dinner

Friday 12th

Chair: Prashin Jethwa

8:00 – 9:30 Breakfast

9:00 – 12:00 **Session 5**

Coated in Curiosity: A Learning Journey in Math and Steel

Simon Hubmer, JKU

Galaxy Evolution - or What galaxies and Hannibal Lecter have in common

Stefanie Reiter, Uni. Wien

TBA

Christian Wald, TU Berlin

Wrap up

SFB Member Speakers

12:30 – 14:00 Lunch

14:00 - midnight Departure