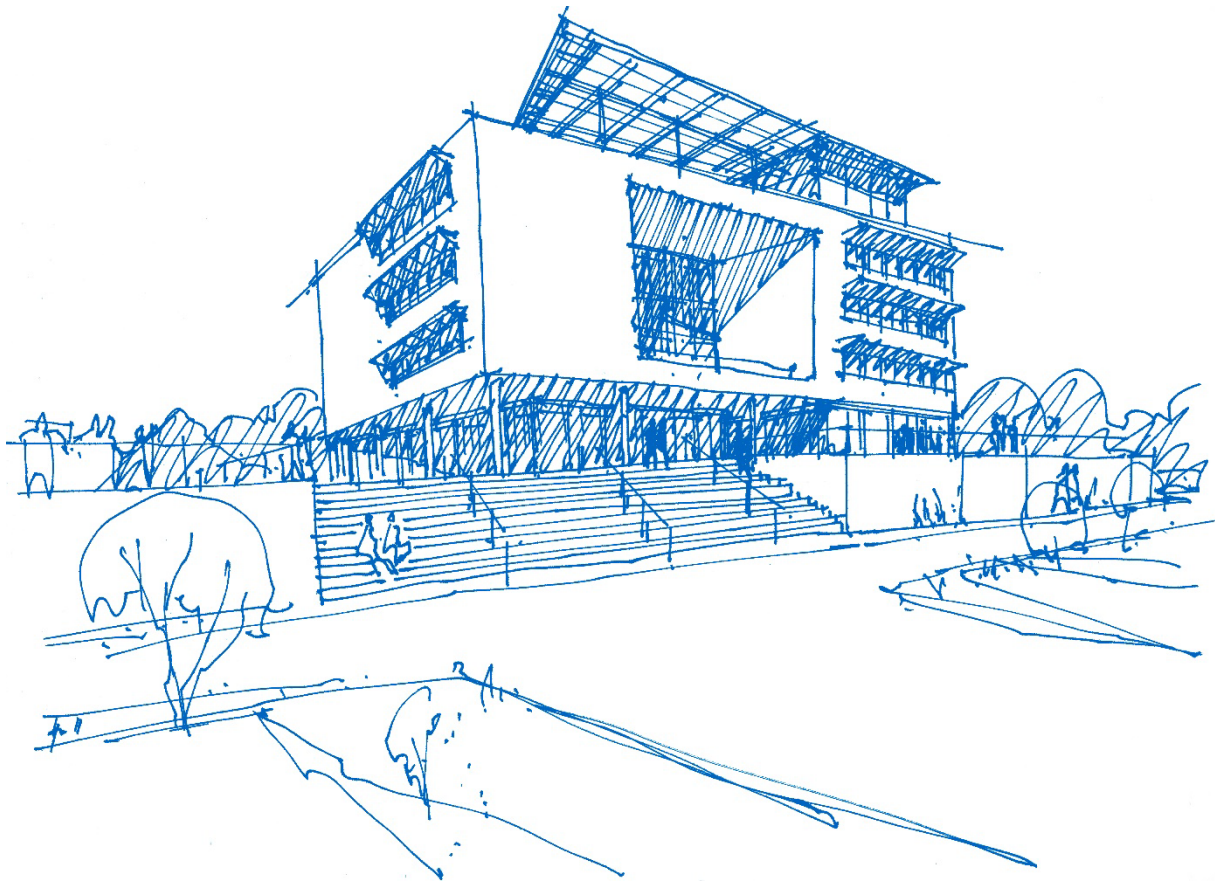


TUM Institute for Advanced Study General Assembly

May 19-20, 2025

Venue: TUM-IAS Headquarters



Lichtenbergstr. 2 a, 85748 Garching, Germany

+49 (0)89 289 10550

events@ias.tum.de

www.ias.tum.de

MONDAY, MAY 19, 2025

All times are in CEST.

12:00 – 14:00 *Registration and Lunch* *Entrance Hall & Faculty Club*

I Director's Welcome *Auditorium, ground floor*

14:00 – 14:15 Michael Molls | TUM-IAS Director

II Talks *Auditorium, ground floor*

Chair: Miriam Schulte | University of Stuttgart | Alumna Carl von Linde Junior Fellow

14:15 – 14:45 **Interfacial Properties of Ceria: Grain Boundaries and Surfaces**

Sossina Haile | Northwestern University
Hans Fischer Senior Fellow

14:45 – 15:15 **Probing Quantum Reality: From Theory to Hardware**

Roberto Giuntini | University of Cagliari
Alumnus Philosopher in Residence

15:15 – 15:45 **Fear and Beer: Linking Bird Behavior, Citizen Science, and Ecology of Hop Plantations**

Piotr Tryjanowski | Poznań University of Life Sciences
Hans Fischer Senior Fellow

15:45 – 16:15 *Coffee Break* *Entrance Hall, ground floor*

III Linde Lecture *Auditorium, ground floor*

Chair: Michael Molls | TUM-IAS Director

16:15 – 17:00 **20 Years TUM-IAS – Going for Excellence**

Ernst Rank, Patrick Dewilde, Gerhard Abstreiter, Michael Molls
TUM-IAS Former Directors and Director

Round Table

IV Poster Session I *2nd & 3rd floor*

17:00 – 18:00 Poster Session I

18:00 *Aperitif* *Faculty Club, 4th floor*

18:30 *Dinner* *Faculty Club, 4th floor*

TUESDAY, MAY 20, 2025

All times are in CEST.

I Director's Welcome

Auditorium, ground floor

8:55 – 9:00 Michael Molls | TUM-IAS Director

II Talks

Auditorium, ground floor

Chair: Manuel Spitschan | TUM | Rudolf Mößbauer Tenure Track Fellow

9:00 – 9:30 **The Impacts of Light Exposure on Cognitive Performance, Circadian Entrainment, and Thermal Physiology**
Siobhan Rockcastle | University of Oregon
Hans Fischer Fellow funded by the TUM Georg Nemetschek Institute

9:30 – 10:00 **High-Fidelity Digital Twins: Detecting and Localizing Weaknesses in Structures**
Rainald Loehner | George Mason University
Hans Fischer Senior Fellow funded by Siemens AG

10:00 – 10:30 *Coffee Break* *Entrance Hall, ground floor*

III Poster Session II

1st floor

10:30 – 11:30 Poster Session II

IV Talks

Auditorium, ground floor

Chair: Bjørn Panyella Pedersen | Aarhus University | Hans Fischer Senior Fellow

11:30 – 12:00 **New Tools for Tracking Effectiveness of Diversity Initiatives**
Andrea Erhardt | University of Kentucky
Alumna Anna Boyksen Fellow

12:00 – 12:30 **Getting from the Computer to Real World Materials Faster with Machine Learning**
Heather Kulik | MIT
Hans Fischer Senior Fellow

V Closing Remarks

12:30 – 12:45 Michael Molls | TUM-IAS Director *Auditorium, ground floor*

12:45 *Lunch* *Faculty Club, 4th floor*

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