

IAS Retreat 2025

See below for the program of the Junior Researchers Event on 22 May.

27 May 2025

Main Event

Forschungszentrum Jülich, central library (building 04.7)

Time	Sessions	Meetings
08:30-09:00	Registration & Welcome Coffee Foyer	
09:00-09:10	Welcome Address Lecture Hall, Chair: Sonja Grün Ulf G. Meißner, IAS Managing Director Laurens Kuipers, Member of the Board of Directors (VS-I)	
09:10-11:00	Presentations of the Institute Divisions, Part I Lecture Hall, Chair: Marisol Ripoll IAS-2 <i>Minimal Physical Modeling of Living Systems</i> - Thorsten Auth, Jens Elgeti IAS-4 <i>Nuclear Lattice Effective Field Theory in a Nutshell</i> - Fabian Hildenbrand <i>Engineering Topological Phases in Quantum Nanosystems</i> - Lin Wang IAS-6 <i>Introduction to IAS-6</i> - Sonja Grün <i>Physics of AI</i> - Moritz Helias IAS-7 <i>Shaping the Future of Crowd Safety: From Flames to Footsteps</i> - Lukas Arnold and Mohcine Chraïbi IAS-8 <i>Retrieval of Sun-Induced Plant Fluorescence from Hyperspectral Imagery</i> - Jim Buffat <i>Galaxy Morphology Classification with Counterfactual Explanation</i> - Zhuo Cao	
11:00-11:30	Coffee Break & Group Photo Foyer	
11:30-11:50	Spotlight Talks, Part I Lecture Hall, Chair: Abigail Morrison <i>Exascale Computing for Skyrmion Simulations</i> - Nihad Abuawwad (#1) <i>Supercomputing in a Browser - Easy access to WebTools for Increased Productivity</i> - Jens Henrik Goebbert, Tim Kreuzer (#43) <i>Hadron Physics with the Jülich-Bonn Model: Determining the Light Baryon Resonance Spectrum</i> - Oleh Luniachek, Deborah Ronchen, Christian Schneider (#65) <i>Vortex Formation and Odd Viscosity in a Chiral Active Fluid</i> - Joscha Mecke (#69) <i>Combining Socio-Psychological Pedestrian Dynamics with AI and Simulation Tools</i> - Ezel Üsten (#97)	Scientific Support Meeting (30-60 min) Room 338
11:50-12:40	Poster Session, Part I (odd numbers) Foyer	
12:40-13:40	Lunch Foyer	

13:40-15:30	Presentations of the Institute Divisions, Part II Lecture Hall, Chair: Erenus Yildiz IAS-9 <i>Materials Data Science and Informatics</i> - Stefan Sandfeld JSC <i>The Futures of Computing at JSC</i> - Robert Speck INM-9 <i>Computational Biomedicine - Developing and Using Molecular Simulation, Machine Learning, and Bioinformatics Tools to Investigate Neurotransmission in the Human Brain</i> - Giulia Rossetti PGI-1 <i>An IAS Perspective on the Peter Grünberg Institut 1 - Quantum Theory of Materials</i> - Gregor Michalicek PGI-15 <i>Neuromorphic Principles for Self-Attention</i> - Emre Neftci	
15:30-15:50	Spotlight Talks, Part II Lecture Hall, Chair: Vania Calandrini <i>Leveraging LLMs and Ontologies for Simulation Data Extraction and Exploration</i> - Elaheh Akhouni (#2) <i>Event-Driven Eligibility Propagation: Combining Efficiency with Biological Realism</i> - Agnes Korcsak-Gorzo (#56) <i>Cognitive Maps in Brains and Machines</i> - Sven Krausse; Alpha Renner (#60) <i>Summation Compression for Very Low-Rank Adaptation</i> - Alessio Quercia (#84)	
15:50-16:40	Poster Session, Part II (even numbers) Foyer	
16:40-16:50	Short Break Foyer	
16:50-17:50	Large Research Projects and Infrastructures Lecture Hall, Chair: Robert Speck JUPITER - <i>Pushing Technical and Scientific Boundaries to the Exascale Level</i> - Benedikt von St. Vieth Better Software Better Research - Claire Wyatt Fostering Interdisciplinarity: The Jülich Neuromorphic Computing Alliance - Abigail Morrison Rhine-Ruhr Center for Scientific Data Literacy - An Introduction and Recent Activities - Katharina Immel Helmholtz AI Consulting - supporting AI innovation in Helmholtz – Stefan Kesselheim	
17:50-18:00	Closing Remarks, Report from the Junior Investigators Event & Poster Prize Lecture Hall Tom Luu, Sonja Grün, Katharina Immel	
18:15-19:15		Senior Investigators Meeting Foyer

Senior Investigators Meeting

A meeting of senior investigators (i.e. senior postdocs, team leaders, group leaders, directors, ...) to get to know each other and exchange ideas and perspectives on, among others, cooperation within the IAS, leadership matters, and communication.

Scientific Support Meeting (from 11:30 with open end)

An informal get-together of those IAS members supporting scientific activities at the IAS (i.e. secretaries, coordinators, IT staff, ...).

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Junior Researchers Event, 22 May 2025

11:00 Welcome (Seecasino, room: Hambach)
Have a coffee and get pumped for the event.

11:15 Speed Meeting (Hambach)
Meet other early career researchers from IAS in a "speed dating" fashion while enjoying a walk on campus.

12:15 Lunch & Researcher Services and Support Fair (Hambach)
Enjoy a light lunch while getting to know the different services, support structures and funding schemes that FZJ and RWTH offer you. Take the opportunity to bring your CV and cover letters and receive professional feedback.

14:00 Career Path Panel (Building 14.6 (PTJ), room: 241)
Meet the following professionals and ask them all your career-related questions:

- **Junior Prof. Dr. Jun Huang**, ERC Starting Grant recipient at IET-3
- **Dr.-Ing. Hatim Djelassi**, Systems Engineer at ZEISS Semiconductor Manufacturing
- **Dr. rer. nat. Anna Thünen**, Scientific Consultant at d-fine
- **Dr. rer. nat. Michael von Papen**, Lead Consultant Digital Sustainability at comma soft
- **Dr. Tracy Warbrick**, Head of Education & Scientific Communication at Brain Products GmbH

15:45 Closing & Feedback (Building 14.6 (PTJ), room: 241)
Let us know how you liked the event and what to do next time.

