^{1,2,3}H: Interdisciplinary Perspectives on Hydrogen Isotopes

23 – 25 March 2026, Leipzig, Germany

Monday 23 March (timings are CET)

08:00–08:45	Registration
08:45–09:00	Opening Ceremony
09:00–09:45	Stefan Kaskel **Porous Materials for Isotope Separation**
09:45–10:15	Tanja Gulder
10:15–10:30	Junsu Ha **High-temperature hydrogen isotope separation enabled by locally flexible gates in tightly confined microporous metal-organic frameworks**
10:30–11:00	Coffee Break
11:00–11:30	Hyunchul Oh **Advanced MOF Strategies for Hydrogen Isotope Separation**
11:30–11:45	Sibo Chetry **From Pore to Defect Engineering: Cu2 Triazolyl Isophthalate MOFs for Dihydrogen Adsorption and Isotopologue Separation**
11:45–12:00	Hrittik Karmakar
12:00–12:30	Michael Hirscher **Adsorption-Based Separation of Gaseous Hydrogen Isotopologue Mixtures Investigated by Thermal Desorption Spectroscopy**
12:30–13:30	Lunch
13:30–14:00	Daniel Obenchain **Ligand Exchange in Gas-Phase Molecular Hydrogen Complexes Influenced by Isotopic and Spin-Isomer Effects**
14:00–14:15	Dennis El Mouzawak **Ion Soft-Landing of Undercoordinated Metal Complexes: Spatial Profiling, Ion Beam Control, and Stabilization**
14:15–14:30	OC1
14:30–15:00	Martin Beyer **Hydrogen-Deuterium Exchange in Charged Water Clusters**
15:00–15:30	Coffee Break
15:30–16:00	Martinn Hartmann **Novel MOFs for Hydrogen Storage and Separation Applications**
16:00–16:15	OC2
16:15–16:45	Irena Senkovska **Flexible Metal–Organic Frameworks: Opportunities for Isotope Separation**
16:45–17:00	Mahnaz Bakhtian
17:00–17:30	Linda Zhang
18:00–20:00	**Poster Session**

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Tuesday 24 March (timings are CET)

09:00–09:45	Volker Derdau **Chasing the Miracles of Science with Hydrogen Isotopes**
09:45–10:15	Inez Weidinger **The Role of Protons in Electrocatalysis**
10:15–10:30	Maria Chiara Crimella
10:30–11:00	Coffee Break
11:00–11:30	Cornelius Fischer **Hydrogen Isotope (^{1}H, ^{2}H, ^{3}H) Interactions With Microporous Materials: Experimental and Analytical Insights**
11:30–11:45	Alexander Feige **Electron Diffraction as an Alternative to Neutron Methods for Hydrogen Isotope Identification**
11:45–12:00	OC3
12:00–12:30	Genrich Zeller **Raman Spectroscopy and Microscopy of Tritiated Samples**
12:30–13:30	Lunch
13:30–14:00	Olga García Mancheño **Late-Stage Photocatalytic Hydrogen Isotope Exchange and H-Isotope Effects Towards Selective Reduction Reactions**
14:00–14:15	Milena Barp
14:15–14:30	Pranjit Das **Hydrogen Isotope Adsorption in V-Doped MIL-53(Al) Using *In Situ* EPR Spectroscopy**
14:30–15:00	Detlev Belder **Integrated Chemical Microlaboratories: A Key Technology for Automated, Safe, and Sustainable Reaction Processing**
15:00–15:30	Coffee Break
15:30–16:00	Jörg Meyer
16:00–16:15	Masoud Sadeghi **Experimental Framework for Tritium Breeding Studies in Advanced Ceramic Breeder Materials**
16:15–16:45	Alexandra Becker **Tritium Loading on Titanium-Based Metal Samples**
16:45–17:00	Nils Hertl **Mode Selectivity in Electron Promoted Vibrational Relaxation of Chemisorbed Hydrogen on Molybdenum and Tungsten Surfaces**
17:00–17:30	Reinhard Maurer **Nonadiabatic Effects in Ultrafast Hydrogen Chemistry at Metal Surfaces**
18:00–22:00	**Conference Dinner**

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Wednesday 25 March (timings are CET)

09:00–09:45	Melanie Schnell **H-Isotope Dependent Effects Revealed with High-Resolution Molecular Spectroscopy**
09:45–10:15	Anne B. McCoy **Exploring Spectral Signatures of Hydrogen Bonding and Proton Transport Through Studies of Ionic Clusters**
10:15–10:30	Hannah Buttkus **Deciphering HFIP's Influence on the Microhydration of Fluorinated Phosphate Anions**
10:30–11:00	Coffee Break
11:00–11:30	Grégory Schneider
11:30–11:45	Maria Judith Caisachana Lozada **Environmental Factors Governing Proton Flux Trough Graphene-Nafion Membranes**
11:45–12:00	Dario Calvani **Enhanced and Selective Unidirectional Proton Transport via Covalent Benzenesulfonic Functionalized Nanoporous and Pristine Graphene**
12:00–12:30	Thomas Kühne
12:30–13:30	Lunch
13:30–14:00	Thomas Heine **Hydrogen and Helium Isotope Separation on Open Metal Sites in Framework Materials**
14:00–14:15	Felix Moncada **Nuclear Orbitals within the Born-Oppenheimer Approximation**
14:15–14:30	Erik Butenschön
14:30–15:00	Hoi Ri Moon **Metal–Organic Frameworks as Quantum Sieving Platforms for Next-Generation Hydrogen Isotope Separation**
15:00–15:30	Closing
15:30-17:30	**Lab tour**