

**2024**

- 14.09.2024 133<sup>rd</sup> Assembly of the Society of German Natural Scientists and Physicians (GDNÄ)  
338 (Gesellschaft Deutscher Naturforscher und Ärzte), University of Potsdam  
*Der Oscar für den besten Nebendarsteller geht an: Wasser*
- 06.08.2024 GRC "Vibrational Spectroscopy"  
337 Gordon Research Conference, Bryant University, Smithfield, RI, USA  
*Intermolecular vibrational spectroscopy meets calorimetry: Watching the solvent in action*
- 05.07.2024 6<sup>th</sup> Italian Soft Days Conference, University of Florence, Italy  
336 *Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 02.07.2024 Molecular Biophysics Workshop (plenary talk)  
335 Laboratoire Charles Coulomb, University of Montpellier, France  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 24.06.2024 15<sup>th</sup> International Conference on Quantum Fluid Clusters  
334 Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark  
*Hydrogen bonding in the H<sub>2</sub>S dimer: New insights from experiment and theory*
- 27.05.2024 WaterX International Workshop (plenary talk)  
333 Circolo Ufficiali della Marina, La Maddalena, Sardinia, Italy  
*THz Calorimetry: A conceptual framework for a molecular understanding of solvation entropy and enthalpy*

**2023**

- 30.11.2023 Nevada Distinguished Physical Chemistry Lectures  
332 Knowledge Center Wells Fargo Auditorium, University of Nevada, Reno, NV, USA  
*Announcing the Oscar for Best Supporting Actor: Water*
- 29.11.2023 Nevada Distinguished Physical Chemistry Lectures  
331 Department of Chemistry, University of Nevada, Reno, NV, USA  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 10.11.2023 Nanofluidic Seminar (virtual talk), hosted by Center for Enhanced Nanofluidic  
330 Transport (CENT), Cambridge, MA, USA  
*Probing the solvent-free energy in reactions by THz calorimetry*
- 26.10.2023 CiM-IMPRS Interdisciplinary Graduate School Meeting – Cells in Action  
329 Max Planck Institute for Molecular Biomedicine, Münster  
*Liquid–liquid phase separation? Ask the water!*
- 13.08.2023 266<sup>th</sup> ACS National Meeting "Electrocatalysis for Sustainable Energy: Fundamental,  
328 Applications, & Perspective", San Francisco, CA, USA  
*Stripping away ion hydration shells in electrical double layer formation: Water networks matter*
- 10.08.2023 Symposium on Advances in Photochemistry  
327 London Institute for Advanced Light Technologies, Imperial College London, UK

*Caught in the act: Optical Pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*

- 01.08.2023  
326 GRC "Structural, Dynamic and Reactive Properties in the Liquid Phase"  
Gordon Research Conference, Holderness, NH, USA  
*THz spectroscopy provides a conceptual framework for a molecular understanding of solvation enthalpy and entropy*
- 26.07.2023  
325 4<sup>th</sup> Aqueous Supramolecular Chemistry Workshop, Bozeman, MT, USA  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 26.06.2023  
324 TSRC Workshop "Water Structure, Dynamics and Thermodynamics in Biology"  
Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Liquid–liquid phase separation? Ask the water!*
- 06.03.2023  
323 Physics Colloquium, Department of Physics, ETH Zurich, Switzerland  
*Probing free energy in reactions by THz spectroscopy - Ask the water*
- 28.02.2023  
322 Symposium on Size Selected Clusters (S<sup>3</sup>C 2023), Sunstar Hotel Davos, Switzerland  
*Water solvation, step by step*
- 02.02.2023  
321 Physics Colloquium, Institute of Physics, University of Kassel  
*It is water what matters!*
- 2022**
- 24.11.2022  
320 SPO 2022 – 23<sup>rd</sup> International Young Scientists Conference Optics and High  
Technology Material Science (virtual plenary talk), hosted from Faculty of Physics,  
Taras Shevchenko National University of Kyiv, Ukraine  
*Terahertz technology at the frontier of Chemistry*
- 16.09.2022  
319 Annual Meeting: Molecular Liquids at Interfaces  
European/Japanese Molecular Liquids Group (EMLG/JMLG), Barcelona, Spain  
*The stressed solvent: THz calorimetry probing the solvent in action*
- 05.09.2022  
318 BDS2022 – 11<sup>th</sup> Conference on Broadband Dielectric Spectroscopy and its  
Applications, Donostia - San Sebastian, Spain  
*Probing local solvation dynamics*
- 11.08.2022  
317 GRC "Frontiers in Size-Selected Cluster Research: Structure, Reactivity and Dynamics"  
Gordon Research Conference, Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy  
*Low frequency spectra of water clusters, one by one*
- 06.07.2022  
316 German Chemical Society (GDCh) Colloquium  
Department of Chemical Biology, University of Marburg  
*It is water what matters!*
- 28.06.2022  
315 TSRC Workshop "Hydrophobicity: From Theory, to Simulation, to Experiment"  
Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Spectroscopic fingerprints of cavity formation and solute insertion as a measure of hydration entropic loss and enthalpic gain*
- 17.06.2022  
314 CECAM Workshop "Challenges of molecular spectroscopy: Theory meets experiment"  
Lausanne, Switzerland

*Tunneling in hydrogen bonded clusters: The more excited - the easier?*

30.05.2022 SolvATE Meeting of French Research Group on Solvation, Paris, France  
313 *The stressed solvent: THz calorimetry probing the solvent in action*

17.05.2022 XX<sup>th</sup> International Workshop on Quantum Atomic and Molecular Tunneling Systems  
312 (QAMTS), Canmore, Alberta, Canada  
*Tunneling in hydrogen bonded clusters: The more excited - the easier?*

## 2021

17.12.2021 Pacifichem 2021, Symposium Advances in Hydrogen Bond Research (virtual talk)  
311 hosted by The Chemical Society of Japan (CSJ), Honolulu, Hawaii, USA  
*Ultracold chemistry under stardust conditions*

16.12.2021 Pacifichem 2021, Symposium Biomolecules at Interfaces Defining the Cellular  
310 Environment (virtual talk), hosted by The Chemical Society of Japan (CSJ), Honolulu,  
Hawaii, USA  
*Local mutations can serve as a game changer for global protein solvent interaction*

23.08.2021 11<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy (ICAVS 11)  
309 (virtual talk), hosted from Targi w Krakowie Ltd., Krakow, Poland  
*An isolated water droplet in the aqueous solution of a supramolecular tetrahedral cage as observed by THz spectroscopy*

20.08.2021 IUPAC/CCCE Symposium Hydrophobic Effects and Water-Mediated Self-Assembly  
308 (virtual talk), hosted from Chemical Institute of Canada, Montreal, Canada  
*Wrapping up hydrophobic hydration – Locality matters*

12.07.2021 Protein Dynamics Workshop (virtual talk)  
307 hosted from Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation: Mapping hydration water in liquid-liquid phase-separated FUS*

28.06.2021 Water Structure, Dynamics and Thermodynamics in Biology (virtual talk)  
306 hosted from Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation and host-guest interaction under nanoconfinement*

25.06.2021 Seminar Journée IP2CT2021 (virtual talk)  
305 hosted from Institut Parisien de Chimie Physique et Théorique (IP2CT), Paris, France  
*Spectroscopy in superfluid helium nanodroplets: "A cool topic"*

22.06.2021 Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European  
304 Quantum Electronics Conference (EQEC) 2021 (virtual talk)  
hosted from The Optical Society (OSA), Munich  
*Nonlinear THz spectroscopy to study the solvent dynamics in water*

29.03.2021 Seminar Department of Physics, Freie Universität Berlin (virtual talk)  
303 hosted from AG Theoretical Bio- and Soft Matter Physics, FU Berlin  
*Proton conduction probed with THz spectroscopy*

25.03.2021 DESY CMWS (Centre for Molecular Water Science) Days 2021 (virtual talk)  
302 hosted from Deutsches Elektronen-Synchrotron DESY, Hamburg

*It is water what matters*

## 2016-2020

- 18.11.2020  
301 Training Event for the Fellows of the Innovative Training Network PROTON (virtual talk), hosted from Universität Linz, Austria  
*Watching the solvent quake – Optical pump THz probe spectroscopy in liquid phase*
- 11.11.2020  
300 45<sup>th</sup> International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2020 (virtual talk), hosted from Buffalo, New York, USA  
*Caught in the act: Excited-state proton transfer to the solvent followed in real time by non-linear THz spectroscopy*
- 30.10.2020  
299 Chemistry and Biochemistry Departmental Colloquium at UCSB (virtual talk) hosted from Santa Barbara, CA, USA  
*It is water what matters*
- 18.08.2020  
298 ACS Symposium "Biophysical Chemistry in Complex Environments" (virtual talk) hosted from San Francisco, CA, USA  
*Mapping hydration water in liquid-liquid phase separated FUS by THz spectroscopy: The role of solvent thermodynamics in biomolecular condensation*
- 25.02.2020  
297 Physical Chemistry Seminar, Department of Chemistry, UC Berkeley, CA, USA  
*It is water what matters – Change in hydrogen network dynamics in real time probed by linear and non-linear THz experiments*
- 17.01.2020  
296 15<sup>th</sup> SOLEIL Users' Meeting, Paris, France  
*THz measurements to study solvation under extreme conditions*
- 29.11.2019  
295 Physikalisches Kolloquium, Universität Heidelberg  
*Die unterschätzte Rolle des Wassers bei biologischen Prozessen - der THz Tanz des Wassers*
- 12.11.2019  
294 The 12<sup>th</sup> Intl. Photonics and OptoElectronics Meetings, POEM 2019, Wuhan, China  
*Observing the solvent quake by (non) linear THz spectroscopy*
- 30.07.2019  
293 The 14<sup>th</sup> Femtochemistry Conference, FEMTO 14, Shanghai, China  
*Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.06.2019  
292 Workshop on Water structure, Dynamics and Thermodynamics in Biology Telluride, CO, USA  
*Wrapping up hydrophobic hydration – locality matters*
- 21.05.2019  
291 WE-Heraeus Seminar Quantum Fluid Clusters 2019, Bad Honnef  
*Acid solvations versus dissociation at "Stardust conditions": Reaction sequence Matters*
- 13.12.2018  
290 Intl. Conference in Complex & Functional Materials (ICCFM 2018) Kolkata, India  
*Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.09.2018  
289 Biennial Meeting of the German Biophysical Society, Düsseldorf  
*Water in biology*
- 13.09.2018 Keynote speaker at IRMMW-THz 2018, Nagoya, Japan

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- 288 *Catching a glimpse of transient "ferroelectric" water and ultrafast solvent rearrangement by nonlinear THz spectroscopy*
- 04.09.2018 10<sup>th</sup> Intl. Meeting on Photodynamics and related aspects (IMPRA)  
287 Cartagena, Colombia  
*Studying solvation dynamics of photo-excited solutes by non-linear THz spectroscopy*
- 07.06.2018 9th Intl. Meeting on Atomic and Molecular Physics and Chemistry (IMAMPC-2018)  
286 Helmholtz Zentrum Berlin  
*It is water what matters*
- 17.05.2018 GDCh-Kolloquium Universität Tübingen  
285 *It is water what matters*
- 20.04.2018 Kolloquium Universität Hamburg  
284 *It is water what matters*
- 04.03.2018 Austin Symposium on Molecular Structure and Dynamics, Dallas, Texas, USA  
283 *Stepwise Solvation at Ultracold Temperature*
- 04.10.2017 8<sup>th</sup> Intl. THz-Bio Workshop, ENEA Frascati, Italy  
282 *Water mapping by THz calorimetry or where spectroscopy meets calorimetry*
- 30.09.2017 Physikerinnentagung 2017, Ilmenau  
281 *It is water – what matters*
- 31.07.2017 Workshop on Protein Dynamics, Telluride Science Research Center, CO, USA  
280 *Water mapping by THz calorimetry*
- 28.06.2017 Workshop on Challenges in dissecting and understanding nuclear acid electrostatics  
279 Telluride Science Research Center, CO, USA  
*Ion hydration as probed by THz spectroscopy*
- 03.05.2017 Kolloquium Helmholtz-Zentrum Dresden-Rossendorf  
278 *It is water what matters: THz Spektroskopie – eine neue Methode zur Untersuchung von Solvationsprozessen*
- 24.02.2017 Joint meeting German and Czech Biophysicists, Kloster Hünfeld  
277 *THz calorimetry in biophysics*
- 03.02.2017 Sonderkolloquium Rheinische Friedrich-Wilhelms-Universität Bonn  
276 *"Völlig losgelöst"*
- 08.12.2016 Photonics 2016 (plenary talk), Kanpur, India  
275 *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 01.12.2016 CECAM workshop Wien, Austria  
274 *THz spectroscopy and Solvation Science*
- 22.11.2016 ISAS-Kolloquium Berlin  
273 *THz spectroscopy and Solvation Science*
- 24.10.2016 Dortmunder Gambrinus Forum  
272 *"Völlig losgelöst" Der THz-Tanz des Wassers*
- 28.10.2016 Reedijk Symposium 2016, Leiden, Netherlands

- 271 *Solvation Science – THz spectroscopy provides new answers to an old topic*
- 21.10.2016 24<sup>th</sup> Solvay Conference in Chemistry, Solvay Institute Bruxelles, Belgium  
270 *Water mapping in enzymatic catalysis by THz spectroscopy (THz calorimetry)*
- 03.10.2016 Workshop Bio THz Göteborg, Sweden  
269 *It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration*
- 02.08.2016 Gordon Research Conference, Holderness, NH, USA  
268 *Introduction to THz calorimetry: Hydration of hydrophobic surfaces*
- 13.07.2016 Physikalisches Kolloquium, Universität Duisburg-Essen  
267 *THz spectroscopy and THz calorimetry as a novel tool in solvation science*
- 14.06.2016 Colloquium, Universität Innsbruck, Austria  
266 *It is water which matters: from Ion hydration to THz calorimetry*
- 28.04.2016 Kolloquium, ISAS Dortmund  
265 *It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration*
- 08.04.2016 FYSICA 2016, Radboud University, Nijmegen, Netherlands  
264 *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 04.04.2016 Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France  
263 *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 14.03.2016 ACS 251<sup>st</sup> National Meeting, San Diego, CA, USA  
262 *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 10.03.2016 DPG Frühjahrstagung Regensburg  
261 *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 06.03.2016 Austin Symposium, Dallas, TX, USA  
260 *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 20.01.2016 Kolloquium anlässlich des 80sten Geburtstags von Giacinto Scoles, ICTP Trieste, Italy  
259 *It is water that matters: Spectroscopy probes solvation dynamics*
- 15.01.2016 Center of NanoScience (CeNS Kolloquium), LMU München  
258 *It is water what matters – THz spectroscopy as a tool to study the role of water in biomolecular function*
- 11.01.2016 MUST Annual meeting, Engelberg, Switzerland  
257 *1. Closing the THz gap: experimentally and theoretically*  
256 *2. Application to solvation science: Ion hydration and biomolecular solvation*

**2011-2015**

- 19.12.2015 Pacifichem, Honolulu, HI, USA

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- 255            1. THz time domain studies of water entrapped in micelles
- 254            2. Microsolvation at 0.37 K: IR spectroscopic studies of aggregates in superfluid helium nanodroplets
- 19.12.2015    Pacifichem, Honolulu, HI, USA
- 253            *It is water what matters: THz absorption spectroscopy as a powerful tool to study biomolecular hydration*
- 14.10.2015    iCOMET, Chengdu, China
- 252            *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 29.09.2015    Intl. Symposium "Assessing the future of physical Chemistry", Berlin
- 251            *It is water what matters: The role of water in Enzymatic Catalysis*
- 26.08.2015    IRMMW-THz Conference, Hong Kong
- 250            *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 06.08.2015    Protein Dynamics Conference, Telluride Science Research Center, CO, USA
- 249            *The hydrophobic collapse as probed by Kinetic THz absorption spectroscopy*
- 30.06.2015    GDCh Kolloquium, RWTH Aachen
- 248            *Exploring "Solvation Science" THz-spectroscopy as a tool to study solvation dynamics*
- 22.06.2015    Intl. Symposium on Molecular Spectroscopy (plenary talk), Urbana-Champaign, IL, USA
- 247            *It is water what matters: THz spectroscopy as a tool to study hydration dynamics*
- 18.05.2015    50 Jahre 50 Vorträge, Ruhr-Universität Bochum
- 246            *Es kommt auf das Lösungsmittel an*
- 15.05.2015    Women's Networking Lunch, Bunsentagung 2015, Bochum
- 245            *Why are we still few on the top? Dreams to be realized*
- 11.05.2015    Seminarvortrag, UC Berkeley, CA, USA
- 244            *It is water what matters: New insights by THz absorption spectroscopy into the role of water in biological function*
- 23.04.2015    GDCh Kolloquium, Karlsruhe
- 243            *It is water that matters: THz absorption studies as a tool to study biomolecular hydration*
- 16.04.2015    Tulip VI Summer School, Noordwijk, Netherlands
- 242            *Terahertz Spectroscopy 2*
- 15.04.2015    Tulip VI Summer School, Noordwijk, Netherlands
- 241            *Terahertz Spectroscopy 1*
- 24.03.2015    Seminarvortrag Elettra, Trieste, Italy
- 240            *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 20.02.2015    Spectroscopy and Dynamics of Molecules and Clusters (SDMC) 2015, Nainital, India
- 239            *Exploring solvation science – spectroscopy as a tool to study solvation dynamics*
- 17.02.2015    Colloquium Indian Institute of Technology, Bangalore, India

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- 238            *It is water which matters: studying microsolvation by IR and THz spectroscopy*  
12.01.2015    Kolloquium, SFB 1078, FU Berlin
- 237            *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 03.10.2014    Colloquium, UC Davies, CA, USA
- 236            *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 30.09.2014    Miller lunch talk, Berkeley, CA, USA
- 235            *It is water which matters: studying microsolvation by IR and THz spectroscopy*
- 23.09.2014    Seminarvortrag, UC Berkely, CA, USA
- 234            *Solvation – new answers to an old problem: Using THz spectroscopy to gain new insights into the role of water in biological function*
- 11.09.2014    Specmo 2014, Marana Center, Corsica, France
- 233            *THz absorption spectroscopy a new tool to study solvation processes*
- 07.08.2014    Gordon Research Conference Vibrational Spectroscopy, Biddeford, ME, USA
- 232            *Rapid kinetic THz absorption spectroscopy: Following changes in the coupled protein-hydration dynamics in the real time*
- 10.07.2014    Workshop on Interfacial molecular and electronic structure and dynamics, Telluride Science Research Center, CO, USA
- 231            *Some like it cool – THz absorption as a tool to study biomolecular hydration*
- 02.07.2014    Laser Application and Life Sciences Conference, Ulm
- 230            *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 05.06.2014    Water 2014 workshop, Les Houches, France
- 229            *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 19.05.2014    Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France
- 228            *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 25.04.2014    Lecture series, ETH Zürich, Switzerland
- 227            *Some like it cool – THz absorption spectroscopy of AFP*
- 25.04.2014    Lecture series, ETH Zürich, Switzerland
- 226            *THz vibrational signatures of hydrated ions*
- 24.04.2014    Kolloquium, Universität Bern, Switzerland
- 225            *It is water which matters: Observing the rattling modes of ions in the THz range*
- 22.04.2014    Lecture series, ETH Zürich, Switzerland
- 224            *Solvation – new answers to an old problem: THz spectroscopy as a new spectroscopic tool to probe hydration*
- 22.04.2014    Lecture series, ETH Zürich, Switzerland
- 223            *Introduction to the tools: Experimental and simulation*
- 03.04.2014    5th THz-Bio Workshop Seoul, Korea
- 222            *Observing the rattling modes of ions in the THz range*
- 02.04.2014    5<sup>th</sup> THz-Bio Workshop Seoul, Korea
- 221            *Introduction into THz spectroscopy as a tool to probe hydration dynamics*



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- 25.03.2014 IMM Colloquium, Radboud University, Nijmegen, Netherlands  
220 *It is water that matters. THz absorption studies – a new tool to study biomolecular hydration*
- 20.03.2014 Kolloquium, Universität Wien, Austria  
219 *Some like it cool - the role of water in biological function*
- 14.03.2014 Workshop on Adsorption of ions at solid-electrolyte interfaces, Leiden  
218 *Ion Solvation – new answers to an old problem*
- 22.01.2014 AirUCI Workshop, Laguna Beach, CA, USA  
217 *Solvation - new insights by THz spectroscopy*
- 05.01.2014 RSC Spectroscopy and Dynamics Meeting, University of Oxford, UK  
216 *Solvation - new answers to an old problem*
- 26.09.2013 Black Forest Focus Conference, Saig, Schwarzwald  
215 *Some like it cool - THz absorption studies of anti-freeze proteins*
- 16.09.2013 20<sup>th</sup> Intl. Conference on Horizons in Hydrogen Bond Research, Antwerp, Belgium  
214 *Rock and roll at 0.35 K*
- 30.08.2013 23<sup>rd</sup> Colloquium on High Resolution Molecular Spectroscopy, HRMS 2013, Budapest, Hungary  
213 *Rock and roll at 0.37 K - high-resolution spectroscopy of microsolvated clusters*
- 06.08.2013 Protein Dynamics Workshop, Telluride Science Research Center, CO, USA  
212 *Some like it cool - Anti Freeze Proteins*
- 26.07.2013 Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA  
211 *Solvation of anions and cations observed in the IR and the THz range*
- 19.06.2013 Oberseminar "Ultrakurzzeitspektroskopie", LMU München  
210 *The role of water in biological processes*
- 19.06.2013 Quantum Fluid Clusters 2013, Regensburg  
209 *Ultracold Chemistry Aggregation and Microsolvation at 0.37 K*
- 10.05.2013 Bunsentagung 2013, KIT, Karlsruhe  
208 *The THz dance of water with bio-molecules*
- 02.05.2013 FELIX Kick-off Meeting, Radboud University Nijmegen, Netherlands  
207 *Probing the role of water in biological processes by kinetic THz absorption spectroscopy (KITA)*
- 03.04.2013 OTST 2013, Kyoto, Japan  
206 *The Terahertz vibrational signatures of hydrated ions*
- 01.04.2013 Tutorial, OTST 2013, Kyoto, Japan  
205 *The THz dance of water with bio-molecules*
- 15.02.2013 4<sup>th</sup> THz-Bio Workshop, Seoul, Korea  
204 *Fast solvation dynamics detected by THz spectroscopy*
- 06.02.2013 Photonics West, SPIE Conference 2013, San Francisco, CA, USA  
203 *Watching the dance of ions and molecules in the THz*
- 25.01.2013 Kolloquium, Radboud University Nijmegen, Netherlands

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- 202 *From FIR to THz spectroscopy - from the gas phase to the liquid phase*
- 14.01.2013 Colloquium, Institute for Sciences and Technology (IST), Klosterneuburg, Austria  
201 *Solvation – new answers to an old problem*
- 08.01.2013 Societas Emeritorium Emeritarumque, Ruhr-Universität Bochum  
200 *Das Prinzip aller Dinge ist das Lösungsmittel*
- 19.12.2012 Winter School in Theoretical Chemistry 2012, Helsinki, Finland  
199 *1. The THz dance of water - describing hydrogen network dynamics*  
198 *2. The THz dance of water - experimental access to hydrogen network dynamics*
- 21.11.2012 Kolloquium, Fritz-Haber-Institut Berlin  
197 *Water at interfaces - solvation of ions and proteins*
- 01.10.2012 Polydays 2012, Berlin  
196 *THz spectroscopy: A novel experimental tool to study water network dynamics*
- 21.08.2012 244<sup>th</sup> ACS meeting, Philadelphia, PA, USA  
195 *Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range*
- 02.07.2012 GDCh Kolloquium, TU Berlin  
194 *Der THz Tanz des Wassers mit den Biomolekülen*
- 30.05.2012 FOR 618 Symposium Bochum  
193 *Rock and Roll at 0.35 K*
- 20.05.2012 German-Russian Conference on Fundamentals an Application of Nanoscience, Berlin  
192 *Chemical imaging with nm resolution*
- 16.04.2012 GDCh Kolloquium TU Braunschweig  
191 *Der THz Tanz des Wassers mit den Proteinen*
- 26.03.2012 ACS National Meeting, San Diego, CA, USA  
190 *Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site*
- 15.03.2012 DPG Frühjahrstagung (Plenarvortrag), Stuttgart  
189 *THz Spectroscopy: A novel experimental tool to study water network dynamics*
- 01.02 2012 Gordon Research Conference on Molecular & Ionic Clusters Ventura, CA, USA  
188 *Rock and roll at 0.37 K - High resolution IR spectroscopy of ultracold molecular cluster*
- 08.01.2012 Meeting of the Excellence Cluster MUST – Lenk 2012, Switzerland  
187 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 05.12.2011 Hebrew University Jerusalem, Israel  
186 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 04.12.2011 Seminarvortrag - Clore-Biophysics series - Weizmann Institute, Rehovot, Israel  
185 *THz spectroscopy: a novel tool to study water network dynamics*
- 30.11.2011 Workshop "Perspective in THz spectroscopy with neutrons" Helmholtz Zentrum Berlin  
184 *What is the role of the solvent in biological function? A new THz look at an old question*

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- 18.11.2011      DESY Photon Science Seminar, Hamburg  
183              *Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range*
- 08.11.2011      Colloquium, Yale University, New Haven, CT, USA  
182              *What is the role of the solvent in biological function? A new THz look at an old question*
- 10.10.2011      ICTP-KFAS Conference on Nanotechnology for Biological and Biomedical Applications, Trieste, Italy  
181              *The role of water in enzymatic reactions - THz spectroscopy as a tool to probe solvation dynamics*
- 01.08.2011      Gordon Research Conference on Biological Molecules in the Gas Phase & in Solution, Andover, NH, USA  
180              *The THz dance of biomolecules in solution*
- 29.07.2011      Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA  
179              *Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site*
- 05.07.2011      Hydroprot 2011 Conference, Paris, France  
178              *Watching the dance of ions and molecules in the THz*
- 15.06.2011      Physikalisch-Chemisches Kolloquium, LMU München  
177              *Detecting the chemical fingerprint in soft matter: From DNA bio nanochips to the study of ion solvation*
- 07.06.2011      Vortrag im Rahmen der Chemischen Gesellschaft zu Heidelberg  
176              *Ein neues Frequenzfenster öffnet sich: Vom THz Tanz des Wassers mit den Proteinen bis zum Rasseln des Ions mit seiner Hydrathülle*
- 07.06.2011      Conference on "Teaching is touching the future: from vision to practice", Ruhr-Universität Bochum  
175              *Visionen lokal! Der internationale Masterstudiengang Molecular Sciences and Simulation*
- 31.05.2011      482. WE Heraeus-Seminar: Helium-Nanodroplets – Confinement for cold molecules and cold chemistry, Bad Honnef  
174              *Rock and Roll at 0.37 K*
- 22.05.2011      Conference on Lasers and Electro-Optic Europe, München  
173              *Watching the dance of ions and molecules in the THz*
- 30.04.2011      3<sup>rd</sup> Meeting "From the witches cauldrons in materials science", Goslar  
172              *Mapping chemical surfaces by IR nanoscopy*
- 07.04.2011      Faraday Discussion 150 Frontiers in Spectroscopy, Basel, Switzerland  
171              *The THz dance of the protein with the water*
- 04.04.2011      Workshop on Water, Max-Born-Institut Berlin  
170              *Watching the dance of ions and molecules in the THz*
- 21.03.2011      Kolloquium, ETH Zürich, Switzerland  
169              *Watching the dance of ions and molecules in the THz*

21.01.2011 Kolloquium, Universität Würzburg  
168 *Solvation im Detail verstanden: Von einzelner Ion bis zum Protein*

20.01.2011 Universität Würzburg  
167 *Der THz Tanz des Wassers*

## 2006-2010

02.12.2010 2<sup>nd</sup> Intl. Conference on "Transient Chemical Structures in Dense media", Paris, France  
166 *Dynamics of water molecule around proteins*

01.11.2010 1<sup>st</sup> German-Russian Symposium in Nanomaterials – New Horizons, Moscow, Russia  
165 *Chemical nanoscopy of surfaces and at interfaces*

13.09.2010 Advanced Laser Technologies Conference ALT'10, Egmond an Zee, Netherlands  
164 *Watching the dance of the water with the protein*

10.08.2010 Gordon Research Conference on Water & Aqueous Solutions, Mount Holderness,  
163 NH, USA  
*The THz dance of the water with the protein*

19.07.2010 Physikalisches Kolloquium, Ruhr-Universität Bochum  
162 *Rock and roll at 0.37 K*

02.07.2010 Kolloquium, Universität Düsseldorf  
161 *Understanding solvation on a molecular scale – An interplay between experiment and solution*

15.06.2010 Physikalisches Kolloquium, TU Dortmund  
160 *Rock and Roll at 0,37 K*

10.06.2010 Intl. Conference on Laser Applications in Life Sciences, Oulu, Finland  
159 *The THz dance of the protein with the water*

21.04.2010 456. WE Heraeus-Seminar: THz radiation: generation, detection and applications,  
158 Bad Honnef  
*Watching the dance of the protein with the water*

16.04.2010 Physikalisches Kolloquium, Universität Osnabrück, Austria  
157 *Challenges in IR-Spectroscopy: From microsolvation towards chemical fingerprints of nanostructured surfaces*

09.03.2010 THz Bio Workshop and Center opening ceremony, Seoul, Korea  
156 *The THz dance of the protein with the water*

08.02.2010 PhandTA 11, Innsbruck  
155 *The THz dance of the protein with water*

24.01.2010 Photonics West, SPIE Conference 2010, San Francisco, CA, USA  
154 *THz spectroscopy as a new tool to probe hydration dynamics*

12.01.2010 Water at Interfaces Conference, Institute of Advanced Study, Durham, UK  
153 *The THz dance of the water with the protein*

17.12.2009 1<sup>st</sup> Workshop on TBONE Experiments and Applications, Karlsruhe  
152 *Scanning near field infrared microscopy: Chemical Imaging on a nm scale*

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- 01.12.2009 Intl. Workshop TeraTech09, Osaka, Japan  
151 *The THz dance of the water with the protein*
- 19.11.2009 Physikalisches Kolloquium, Universität Rostock  
150 *Ultrakalte Chemie: Höchstaufgelöste Spektroskopie im Helium-Nanotröpfchen*
- 07.11.2009 Physikerinnen-Tagung der DPG, Frankfurt  
149 *Chemie bei ultrakalten Temperaturen: Beobachtung des kleinsten Tropfens Säure*
- 26.10.2009 Conference on Structure and Dynamics of Hydrogen-bonded systems, ICTP, Trieste, Italy  
148 *Aggregation induced dissociation of HCl (H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*
- 15.09.2009 20<sup>th</sup> Intl. Congress on X-ray optics and microanalysis, Karlsruhe  
147 *Scanning nearfield microscopy: Chemical imaging on a nm scale*
- 08.09.2009 Physikalisches Kolloquium, Universität Göteborg, Sweden  
146 *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 28.08.2009 SEADIM7 Conference, Varadero, Cuba  
145 *Laser spectroscopy as a tool to study solvation: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 04.08.2009 Protein Dynamics Workshop, Telluride Science Research Center, CO, USA  
144 *The THz dance of the water with the protein: Direct observation of collective solvent protein network motions*
- 20.07.2009 Vibrational Dynamics Workshop, Telluride Science Research Center, CO, USA  
143 *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 13.07.2009 Kolloquium, TU München  
142 *From the smallest droplet of acid towards the THz dance of the protein with the water*
- 10.07.2009 41<sup>st</sup> EGAS 2009, Danzig, Poland  
141 *Chemistry at ultracold temperatures: Observation of the smallest droplet of acid*
- 27.05.2009 Intl. workshop on Quantum Fluid Clusters, MPIKS, Dresden  
140 *Aggregation induced dissociation of HCl(H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*
- 23.05.2009 Protein-Protein-Interactions: Experiment and Theory, Deutsche Gesellschaft für Biophysik, Hünfeld  
139 *The THz dance of the protein with the water*
- 11.05.2009 Protein and Water workshop, Tempe, AZ, USA  
138 *The THz dance of the water with the protein*
- 15.04.2009 Purdue University, West Lafayette, IN, USA  
137 *Understanding solvation dynamics: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 20.03.2009 4<sup>th</sup> Ringberg Meeting on Molecular Physics 2009, Schloß Ringberg, Kreuth  
136 *The smallest droplet of acid: IR high resolution spectroscopy of solvated HCl*
- 16.03.2009 Symposium, Universität Göttingen  
135 *The THz dance of water with the protein: Direct observation of collective solvent protein network motions*

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- 09.03.2009 Intl. workshop on Optical Terahertz Science, Santa Barbara, CA, USA  
134 *The THz dance of the protein with water*
- 06.03.2009 Emory University, Atlanta, GA, USA  
133 *From fluctuations to function and vice versa: The THz dance of the water with the protein*
- 28.02.2009 53rd Annual Meeting of the Biophysical Society, Boston, MA, USA  
132 *The THz dance of water with the protein*
- 26.02.2009 Workshop Neutrons and X-rays meet biology, Helmholtz Zentrum Berlin  
131 *The THz dance of the water*
- 12.02.2009 TBONE workshop ANKA, Karlsruhe  
130 *The THz dance of the protein with the water*
- 11.02.2009 Kolloquium, Universität Kaiserslautern  
129 *Solvatation neu aufgerollt: Vom kleinsten Säuretropfen bis zur schnellen Solvationsdynamik von Proteinen*
- 28.01.2009 Ultrafast Biochemistry Workshop, Basel, Switzerland  
128 *Terahertz excitation of biomolecules*
- 20.01.2009 Kolloquium, Universität Stuttgart  
127 *Vom kleinsten Säuretropfen bis zum THz Tanz des Wassers mit den Proteinen*
- 17.12.2008 Laser centre symposium 2008, Vrije Universiteit Amsterdam, Netherlands  
126 *The THz dance of the protein with the water*
- 15.12.2008 Princeton, NJ, USA  
125 *Introduction to Spectroscopy in ultracold Helium nanodroplets*
- 08.11.2008 Alexander von Humboldt-Kolloquium, Varanasi, India  
124 *The THz dance of the protein with the water*
- 29.10.2008 AMO physics section meeting of the Dutch Physics Society, Lunteren, Netherlands  
123 *The THz dance of the protein with the water*
- 24.10.2008 Kolloquium, Universität Freiburg  
122 *Neue Möglichkeiten der IR- und THz-Laserspektroskopie: Chemische Fingerabdrücke nanostrukturierter Oberflächen und der THz Tanz des Wassers*
- 21.10.2008 55<sup>th</sup> AVS Meeting, Boston, MA, USA  
121 *Vibrational imaging with nm resolution: Scanning Near Field Infrared Microscopy (SNIM) on surfaces*
- 29.09.2008 European Optical Society (EOS) meeting, Paris, France  
120 *Scanning near field infrared microscopy (SNIM): Combining topographical and optical information*
- 25.09.2008 Intchem Summer School und Forschergruppe 618-Workshop, Leśna, Poland  
119 *Microsolvation of acids studied at ultracold temperatures*
- 28.08.2008 The Royal Society of Chemistry Faraday Discussion 141: Water - From Interfaces to the Bulk, Edinburgh, Scotland  
118 *The Terahertz dance of water with the proteins: The effect of protein flexibility on the dynamical hydration shell of ubiquitin*

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- 15.08.2008 33<sup>rd</sup> Intl.Conference on Infrared, Millimeter, and Terahertz Waves (keynote talk),  
117 Pasadena, CA, USA  
*The THz dance of water with the protein*
- 06.08.2008 Gordon Research Conference on Vibrational Spectroscopy, South Hadley, MA, USA  
116 *High resolution laser spectroscopy of molecular aggregates in superfluid helium nanodroplets: The smallest droplet of acid*
- 11.06.2008 Graduiertenkolleg-Kolloquium FU Berlin  
115 *THz dance of the water with biomolecules*
- 27.05.2008 Workshop on Bionanointerfaces, Portoroz, Croatia  
114 *The THz and IR look on surfaces and interfaces*
- 21.05.2008 Verleihung des Erfinderpreises 2007 der rubitec GmbH, Bochum  
113 *Entwicklung eines neuartigen Mikro-/Nanoskops*
- 16.04.2008 Eduard-Zintel-Kolloquium, TU Darmstadt  
112 *Der "THz-Tanz" des Wassers mit den Biomolekülen*
- 03.04.2008 Analytica Konferenz, München  
111 *Der THz Tanz des Wassers mit den Proteinen*
- 27.02.2008 2<sup>nd</sup> Intl. Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008),  
110 Trivandrum, India  
*The THz dance of the water with biomolecules*
- 11.02.2008 Winter College on Micro and Nano Photonics for Life Sciences, Trieste, Italy  
109 *IR nearfield microscopy: principles and applications*
- 28.01.2008 GdCH-Kolloquium, Universität Regensburg  
108 *Von der Mikrosolvatation bis zum "THz-Tanz" der Proteine*
- 18.12.2007 Kolloquium, Universität Münster  
107 *A closer look on surfaces and interfaces by IR- and THz laser spectroscopy*
- 10.12.2007 Meeting on Biomolecules investigated with UV and THz spectroscopy, Nijmegen,  
106 Netherlands  
*The THz dance of the water with biomolecules*
- 03.12.2007 Kolloquium, Universität Bonn  
105 *Ein mikroskopischer Blick auf Biomoleküle: Vom IR-Nahfeldblick auf Lipide bis zum Tanz des Wasser mit den Proteinen*
- 13.11.2007 Kolloquium, MPI für Eisenforschung, Mülheim  
104 *A closer look on surfaces and interfaces by IR- and THz laser spectroscopy*
- 08.11.2007 Seminarvortrag, Universität Zürich, Switzerland  
103 *The THz dance of water with biomolecules*
- 18.10.2007 Kolloquium, Freiburger Physiktage, Universität Freiburg  
102 *Der THz-Tanz des Wassers mit den Biomolekülen*
- 14.08.2007 29<sup>th</sup> Intl. Symposium on Free Radicals, Big Sky, MT, USA  
101 *High resolution infrared spectroscopy of molecules in helium nanodroplets: Observation of radicals and aggregation processes at ultralow temperatures*

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- 04.08.2007  
100 Intl. Symposium "Topical Problems of Biophotonics 2007" Nizhny Novgorod, Russia  
*The THz dance of water with biomolecules*
- 31.07.2007  
099 Workshop on Protein dynamics, Telluride Science Research Center, CO, USA  
*The THz dance of the protein with the water*
- 11.07.2007  
098 Seminar am MPI für molekulare Physiologie, Dortmund  
*New perspectives of IR- and THz spectroscopy of biomolecules: From chemical nanoscopy of lipids to the THz dance of the water with the protein solvation water around proteins*
- 09.07.2007  
097 Conference on Tunable Diode Laser Spectroscopy, Reims, Frankreich  
*IR spectroscopy in ultracold heliumnanodroplets*
- 04.05.2007  
096 Physikalisches Kolloquium, Universität Heidelberg  
*Was "sehen" wir mithilfe der IR- und THz Lasertechnologie?*
- 16.04.2007  
095 Spring College on "Water in Physics, Chemistry and Biology", Trieste  
094 1. Probing solvation dynamics in the sub-psec regime: Experimental probes  
2. Probing solvation dynamics in the sub-psec regime by THz spectroscopy
- 10.04.2007  
093 Rundgespräch der DFG "Cold Reaction Dynamics" Physikzentrum Bad Honnef  
*Mikrosolvatation und -aggregation in ultrakalten Heliumnanotropfen*
- 29.03.2007  
092 233<sup>rd</sup> American Chemical Society Meeting, Symposium on Vibrational Spectroscopy as a Probe of Biomolecular Structure and Dynamics, Chicago, IL, USA  
*The THz dance of the water with the protein*
- 20.03.2007  
091 Workshop spectroscopy of biomolecules, DELTA, Dortmund  
*Scanning nearfield infrared microscopy: Chemical imaging with nm resolution*
- 06.03.2007  
090 Terahertz-Spektroskopie College Tag, Göttingen  
*Der THz Tanz des Wassers mit Biomolekülen*
- 07.02.2007  
089 Nordrhein-Westfälische Akademie der Wissenschaften, Düsseldorf  
*Auf der Suche nach dem "chemischen Fingerabdruck": Neue Perspektiven der Infrarot- und THz-Spektroskopie*
- 17.01.2007  
088 GDCh Kolloquium, Universität Marburg  
*Tunnelnde Protonen und tanzende Wassermoleküle: Ein mikroskopischer Blick durch die IR- und THz-Brille*
- 13.12.2006  
087 Physikalisches Kolloquium, Universität Frankfurt  
*Was "sehen" wir mit THz-Technologie? Von solvatisierten Proteinen und tanzenden Wassermolekülen*
- 12.11.2006  
086 53<sup>rd</sup> AVS International Symposium & Exhibition, San Francisco, CA, USA  
*THz Technology and its application in the study of hydration layers and thin films*
- 26.10.2006  
085 Conference on the Physics, Chemistry and Biology of Water, Vermont, VT, USA  
*Solute-induced retardation of water dynamics probed directly by terahertz spectroscopy*
- 16.10.2006  
084 EOS Annual Meeting 2006, Porte de Versailles - Paris, France  
*Scanning infrared near field microscopy: Chemical imaging of subsurface structures and self-assembled monolayers with nm resolution*



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- 26.09.2006 Emory University, Atlanta, GA, USA  
083 *THz and IR spectroscopy as a bridge between two worlds: A nanoscopic view of biological phenomena*
- 25.09.2006 Emory University, Atlanta, GA, USA  
082 *A closer look into the world of biomolecules: From the THz dance of water with proteins to chemical images of self-assembled monolayers and cells*
- 08.06.2006 Jahrestagung der Deutschen Gesellschaft für angewandte Optik (plenary talk), Weingarten  
081 *Set-up of a scanning near field infrared microscope (SNIM)*
- 11.05.2006 University of Wisconsin at Madison, WI, USA  
080 *New direction of IR and THz laser spectroscopy: Characterizing of surfaces and hydration shells*
- 03.05.2006 University of Illinois at Urbana-Champaign, IL, USA  
079 *New directions of IR and THz spectroscopy in condensed phase: From the observation of the hydration shell of sugars to the chemical nanoscopy of sub-surface species*
- 01.05.2006 Princeton University, NJ, USA  
078 *New directions of IR and THz spectroscopy: From the hydration shell of sugars and proteins to the IR spectroscopy of sub-surface species at 30 nm resolution*
- 24.04.2006 Emory University and Georgia Tech Institute, Atlanta, GA, USA  
077 *New Directions of IR and THz Laser Spectroscopy: Characterization of Surfaces and Hydration Shells*
- 03.04.2006 Forschungszentrum Karlsruhe  
076 *New directions of IR and THz spectroscopy – From the IR spectroscopy of sub-surface species at 30 nm resolution to the monitoring of the hydration shell of sugars*
- 14.03.2006 Frühjahrstagung der DPG (Plenarvortrag), Frankfurt  
075 *THz-Spektroskopie: Technologische Entwicklungen und ihre Anwendungen in der Biophysikalischen Chemie*
- 20.02.2006 Gordon Research Conference, Ventura, CA, USA  
074 *Probing phonon-rotational coupling: IR spectroscopy of dopants in helium nanodroplets*
- 27.01.2006 Kolloquium anlässlich des Tags der Chemie, RWTH Aachen  
073 *Mit dem Laser auf der Suche nach "chemischen Fingerabdrücken": Von tunnelnden Protonen und tanzenden Wassermolekülen*
- 2001-2005**
- 06.12.2005 Tag der Biomedizinischen Technik, Ruhr-Universität Bochum  
072 *Label-free infrared microscopy and nanoscopy*
- 21.11.2005 Workshop "Isolated Biomolecules and Biomolecular Building Blocks", Düsseldorf  
071 *Aggregation and solvation: Proton transfer and solvens dynamics probed by IR and THz spectroscopy*
- 20.09.2005 Cavity Ring Down User Meeting 2005, Oxford, UK

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- 070            *THz cavity-enhanced attenuated total reflection spectroscopy*
- 22.07.2005    Intl. Society of Theoretical and Chemical Physics, New Orleans, LA, USA
- 069            *Aggregation and Solvation: Proton transfer and solvent dynamics probed by IR and THz spectroscopy*
- 20.06.2005    60<sup>th</sup> Intl. Symposium on Molecular Spectroscopy (plenary talk), Columbus, OH, USA
- 068            *Dynamics on hydrogen bonds - perspectives of infrared and far-infrared spectroscopy*
- 20.04.2005    Kolloquium, Universität Würzburg
- 067            *Von der H-Brücke bis zur Proteindynamik: Möglichkeiten und Perspektiven der Infrarot- und THz-Spektroskopie*
- 31.03.2005    WE-Heraeus-Seminar, Bad Honnef
- 066            *Collective excitations in quantum gases: spectroscopy of ultra-cold molecules in superfluid helium droplets*
- 11.01.2005    Kolloquium, Universität Graz, Austria
- 065            *Spektraler Fingerabdruck oder Chemisches Nanoskop: Möglichkeiten der hochauflösenden THz- und Infrarotlaserspektroskopie*
- 20.12.2004    National Spectroscopy Meeting of the Royal Society of Chemistry (plenary talk), University of Leicester, UK
- 064            *From H-bonds to living cells Challenges for IR laser spectroscopy*
- 13.12.2004    Conference on Dynamics of cold Molecules, Weizmann Institute, Tel Aviv, Israel
- 063            *From aggregation to relaxation: IR-spectroscopy of molecules in He-nanodroplets*
- 16.11.2004    Conference on Single Cell Analysis, Universität Münster
- 062            *Towards scanning (near field) infrared laser microscopy of cells*
- 01.10.2004    IRMMW 2004, Karlsruhe
- 061            *Infrared laser microscopy of living cells using a cw optoparametric oscillator as radiation source*
- 26.08.2004    American Chemical Society National Meeting, Philadelphia, PA, USA
- 060            *Probing relaxation in superfluid helium clusters: IR spectroscopy of CO and NO*
- 09.07.2004    Kolloquium, LMU München
- 059            *Proceeding from hydrogen bonds towards protein structures by (Far) infrared laser spectroscopy*
- 21.06.2004    Kolloquium, Universität Kaiserslautern
- 058            *Proceeding from hydrogen bonds toward protein structures by (Far) infrared laser spectroscopy*
- 11.05.2004    Kolloquium, ISAS Dortmund
- 057            *Proceeding from hydrogen bond towards protein structures via (Far) Infrared laser spectroscopy*
- 14.01.2004    Kolloquium, Universität Freiburg
- 056            *Proceeding from hydrogen bonds towards protein structures via (Far) infrared laser spectroscopy*
- 16.12.2003    Kolloquium, Universität Düsseldorf
- 055            *Biophotonik im IR- und THz-Bereich*

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- 01.10.2003 39th Symposium on Theoretical Chemistry, Gwatt, Switzerland  
054 *Hydrogen bonds: New answers to old questions*
- 16.09.2003 Horizons 2003, FU Berlin,  
053 *Proton tunneling in the formic acid dimer*
- 19.05.2003 Physical-Chemistry Seminar, Oxford, UK  
052 *From the THz to the IR or: How fast is the proton in formic acid dimer?*
- 30.04.2003 Kolloquium, Universität Frankfurt  
051 *Methoden der modernen Laserspektroskopie: Vom THz bis zum IR Bereich – Neue Antworten auf alte Fragen*
- 25.03.2003 DPG-Frühjahrstagung, Hannover  
050 *How fast are protons in double hydrogen bonds?*
- 08.01.2003 Kolloquium, Universität Dresden  
049 *Laserspektroskopie von Molekülen in Helium-Nanotröpfchen: Ungewöhnliche Beobachtungen in einer ultrakalten Matrix*
- 18.11.2002 Kolloquium, Universität Karlsruhe  
048 *Was lernen wir mithilfe von IR-Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 31.10.2002 Kolloquium, FU Berlin  
047 *How fast is the proton in double hydrogen bonds? – High resolution spectroscopy of intermolecular complexes*
- 25.07.2002 EURESCO Tagung "Molecules of biological interest in the gas phase", Wildbad Kreuth  
046 *How fast are protons in double hydrogen bonds?*
- 11.05.2002 Bunsentagung Potsdam  
045 *Hochauflösende IR-Spektroskopie an Ameisensäuredimer- Ein Prototyp für den doppelten Protonentransfer*
- 10.04.2002 DFG Bonn "Wechselwirkung in ultrakalten Atom- und Molekülgasen"  
044 *IR-Spectroscopy of molecules in helium: Collective excitations in quantum liquids: spectroscopy of ultracold molecules in supra fluid helium droplets*
- 06.01.2002 Gordon Research Conference, Ventura, CA, USA  
043 *Introduction to high resolution spectroscopy of clusters*
- 27.06.2001 Intl. Symposium der Volkswagen-Stiftung, Schloß Mickeln, Düsseldorf  
042 *IR-spectroscopy as a tool for the understanding of hydrogen bonded complexes*
- 26.06.2001 Kolloquium, Universität Dortmund  
041 *Möglichkeiten der IR-Laserspektroskopie: Von Untersuchungen an H-Brücken bis zu Quantenanregungen in supraflüssigen Heliumtröpfchen*
- 20.03.2001 Kolloquium, Radboud University, Nijmegen, Netherlands  
040 *What IR spectroscopy tells us about hydrogen bonding?*
- 26.01.2001 Gemeinsames Kolloquium Universität Dortmund und RUB  
039 *Hochauflösende Laserspektroskopie – Anwendungen und Möglichkeiten*
- 18.01.2001 GDCh-Kolloquium, Universität Wuppertal  
038 *Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*

**1989-2000**

- 02.11.2000 GDCh-Kolloquium, Universität Bielefeld  
037 *Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 13.10.2000 SFB 334, Bonn  
036 *IR-Spectroscopy of high lying intermolecular modes of Ar-CO and spectroscopy of formic acid dimer*
- 18.09.2000 Max-Born-Institut Berlin  
035 *Was lernen wird mithilfe der Laserspektroskopie über H-Brücken?*
- 20.08.2000 200<sup>th</sup> ACS National Meeting, Washington DC, USA  
034 *Microwave-infrared double resonance spectroscopy of an OCS molecule inside in helium droplet*
- 18.08.2000 Princeton University, NJ, USA  
033 *Microwave-infrared double resonance spectroscopy of an OCS molecule inside helium droplets*
- 13.07.2000 Universität Konstanz  
032 *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 25.06.2000 Workshop on Quantum fluid clusters, Schloß Ringberg, Kreuth  
031 *Microwave-infrared double resonance spectroscopy of an OCS molecule inside <sup>4</sup>He droplets*
- 17.06.2000 SFB 452 Workshop, Hattingen  
030 *Spektroskopie an Molekülen in einer ultraweichen Matrix*
- 05.06.2000 Fakultät für Physik und Astronomie, Universität Bochum  
029 *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 17.04.2000 Gordon Research Conference "Molecular Ionic Cluster", Toulouse, France  
028 *What does infrared spectroscopy tell us about intermolecular forces?*
- 13.01.2000 Institut für Physikalische Chemie, Universität Göttingen  
027 *Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?*
- 05.11.1999 Universität Kiel  
026 *Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?*
- 18.06.1999 Fakultät für Chemie, Ruhr-Universität Bochum, Antrittsvorlesung  
025 *Laserspektroskopie: Möglichkeiten und Perspektiven*
- 26.05.1999 Konferenz, Niederpöcking  
024 *High resolution infrared spectroscopy on hydrogen bonded cluster: Formic acid dimer*
- 02.09.1998 PRAHA '98, Prag, Czech Republic  
023 *Infrared spectroscopy of hydrogen bonds*
- 13.05.1998 Universität Düsseldorf  
022 *Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung*
- 19.08.1997 International Symposium on Free Radicals, Taellberg, Schweden  
021 *IR Spectroscopy of Radicals: A tool for the study of vibronic interaction*
- 14.05.1997 Universität Potsdam

- 020 *Infrarotspektroskopie als Mittel zur Beantwortung von interdisziplinären Fragen*  
22.04.1997 Ruhr-Universität Bochum
- 019 *Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung*  
18.04.1997 Institut für Physikalische Chemie, TU Braunschweig
- 018 *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*  
17.04.1997 Institut für Umweltphysik, Universität Osnabrück
- 017 *Von interdisziplinären Fragen, intermolekularen Wechselwirkungen und interstellaren Wolken*  
02.04.1997 DFG Berichtskolloquium zum Schwerpunkt "Molekulare Cluster"
- 016 *Ar-CO: Neue Messungen und Test semiempirischer Potentialflächen*  
23.01.1997 Institut für Physikalische Chemie, RWTH Aachen
- 015 *Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*  
12.01.1997 Konferenz "Moving Frontiers in Quantum Molecular Science", Bonn
- 014 *Ar-CO and (NH<sub>3</sub>)<sub>2</sub> - Two prototype systems for intermolecular interaction*  
13.05.1996 Workshop on potential surfaces of van der Waals complexes, Bonn
- 013 *(NH<sub>3</sub>)<sub>2</sub> a hydrogen bonded complex? - The importance of large amplitude motions*  
20.03.1996 Hauptvortrag DPG Frühjahrstagung, Rostock
- 012 *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*  
05.03.1996 DLR, Institut für Weltraumsensorik, Berlin
- 011 *Van-der-Waals-Komplexe im Labor - und im Weltall?*  
12.01.1996 Laboratoire de Photophysique Moléculaire du CNRS, Orsay, France
010. *Infrared spectroscopy of van der Waals complexes*  
20.12.1995 Universitätsklinik Essen
- 009 *Was das Sternenlicht uns erzählt*  
01.12.1995 Institut für Physikalische Chemie, Universität Düsseldorf
- 008 *Infrarotspektroskopie an van-der-Waals-Komplexen*  
27.11.1995 Max-Planck-Institut für Radioastronomie, Bonn
- 007 *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*  
15.11.1995 Max-Planck-Institut für Strömungsforschung, Göttingen
- 006 *Infrarotspektroskopie an van-der-Waals-Clustern*  
20.10.1995 Physikalisches Institut, Universität Bonn
- 005 *Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen*  
19.05.1995 Graduiertenkolleg, Fachbereich Physik, Universität Kaiserslautern
- 004 *Infrarotspektroskopie an Clustern*  
27.01.1995 Abteilung für Chemische Physik, Universität Kiel
- 003 *Konzentrationsmodulationsspektroskopie an CO enthaltenden Komplexen*  
10.01.1995 Gordon conference on atomic and ionic clusters Casa Sirena, Oxnard, CA, USA
- 002 *Concentration modulation in the jet: (CO)<sub>2</sub> - a floppy molecule*  
08.12.1989 Institut für Physikalische Chemie, Universität Frankfurt

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*Dipolmomentmessungen am  $\text{HN}_2^+$*