

Institutional Collaborations

Accelerator Developments:

National Institute of Radiological Sciences, Chiba, Japan

All-XUV Pump-Probe Transient Absorption Spectroscopy of the Structural Molecular Dynamics of Di-iodomethane:

Theoretische Chemie, Universität Heidelberg, Germany

Physikalisches Institut, Westfälische Wilhelms-Universität Münster, Germany

FLASH/DESY, Hamburg, Germany

Theoretische Chemie, Universität Heidelberg, Germany

ELI-ALPS, Szeged, Hungary

Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore

Paul-Scherrer-Institut, Villigen, Switzerland

Laboratorium für Physikalische Chemie, ETH Zürich, Switzerland

SLAC National Accelerator Laboratory, Menlo Park (CA), USA

Department of Chemistry, University of California, Berkeley (CA), USA

Chemical Sciences Division, Lawrence Berkeley National Laboratory, Berkeley (CA), USA

Attosecond Delay Lines and HHG Control:

Max-Planck Institute for Physics of Complex Systems, Dresden, Germany

Indian Institute of Science Education and Research (IISER) Mohali, Punjab, India

Attosecond pulse shaping with dense gas:

Argonne National Laboratory, Lemont (IL), USA

LCLS / SLAC National Accelerator Laboratory, Menlo Park (CA), USA

Louisiana State University, Baton Rouge (LA), USA

Attosecond Real-Time Observation of Recolliding Electron Trajectories in Helium at Low Laser Intensities:

Université Paris-Saclay, CNRS, LPTMS, Orsay, France

Max-Planck-Institut für Physik komplexer Systeme, Dresden, Germany

Attosecond transient absorption of a continuum threshold:

Department of Physics and Astronomy, Drake University, Des Moines (IA), USA

Attosecond XUV + NIR experiments resolved in Reaction microscopes:

University of Freiburg, Germany

ELI-ALPS Szeged, Hungary

BASE:

GSI, Germany

University of Hannover, Germany

University of Mainz, Germany

Helmholtz-Institut Mainz, Germany

PTB, Germany

CERN, Switzerland

RIKEN, Japan

University of Tokyo, Japan

Coherent X-ray 4-wave mixing near core- and inner-shell resonances:

Paul-Scherrer-Institut, Villigen, Switzerland

Institut für Angewandte Physik, Universität Bern, Switzerland

Coherent X-ray-optical control of nuclear excitons:

ESRF, Grenoble, France

DESY, Hamburg, Germany

Helmholtz-Institut Jena, Germany

GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany

Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität Jena, Germany

COLLAPS:

KU Leuven, Belgium

Beijing University, China

IPNO, IN2P3 Paris, France

TU Darmstadt, Germany

Universität Mainz, Germany

CERN Geneva, Switzerland

University of Manchester, UK
University of Liverpool, UK

CONUS:

PreussenElektra GmbH, Kernkraftwerk Brokdorf, Brokdorf, Germany
including a multiple scientific cooperation with:
Physikalisch-Technische Bundesanstalt, Braunschweig, Germany

Core-resonance line-shape analysis of atoms undergoing strong-field ionization:

Centre for Theoretical Atomic, Molecular and Optical Physics, School of Mathematics and Physics, Queen's University Belfast,
Northern Ireland, United Kingdom

Cryogenic Experiments on Trapped Molecular and Cluster Ions:

Universität Innsbruck, Austria
Heyrovský Institute of Physical Chemistry, Czechia
Universität Greifswald, Germany
TU Kaiserslautern, Germany
Weizmann Institute of Science, Rehovot, Israel
Bar Ilan University, Ramat Gan, Israel

Cryogenic Multi-Pixel Microcalorimeters for Molecular Fragments:

Universität Heidelberg, Germany

Cryogenic Storage Ring:

Université Catholique de Louvain-La-Neuve, Belgium
Universität Greifswald, Germany
Universität Giessen, Germany
TU Kaiserslautern, Germany
Weizmann Institute of Science, Rehovot, Israel
Columbia University, New York, USA

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Dielectronic recombination of atomic ions:

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Differential Measurement of Electron Ejection after Two-Photon Two-Electron Excitation of Helium:

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Anglo Australian Observatory
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Swinburne University, Australia
University of Sydney, Australia
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ROE, UK
University of St Andrews, UK
University of Cardiff, UK
University of Edinburgh, UK
University of Nottingham, UK
University of Central Lancashire, UK
University of Liverpool, UK
University of Louisville, USA

Gamma-rays from Molecular Clouds:

University of Nagoya, Japan

GERDA:

GEEL, European Commission, JRC-Geel, Geel, Belgium
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ICN-UNAM, Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, Mexico City, Mexico
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WIPAC, Wisconsin IceCube Particle Astrophysics Center and University of Wisconsin-Madison, Madison-WI, United States of America

HHG in LCs:

Politecnico di Milano

High performance electron beam ion traps and sources:

TRIUMF, Vancouver, Canada
Fudan University, Shanghai, China
Michigan State University, USA

High repetition rates XUV table top sources:

VENTEON - Laser Quantum Company, Hannover, Germany
Leibniz Universität Hannover, Germany
Universität Heidelberg, Germany
Lund University, Sweden

HITRAP:

TU Wien, Austria
GANIL Caen, France
GSI Darmstadt, Germany
Universität Mainz, Germany
KVI Groningen, The Netherlands
Jagellonian University Cracow, Poland
University of Stockholm, Sweden
Imperial College London, UK

Intermolecular Coulombic decay in organic molecular dimers:

Physikalisch-Chemisches Institut, Universität Heidelberg, Germany

Investigations of interaction processes between ionizing radiation and matter using reaction microscopes:

Physikalisch Technische Bundesanstalt (PTB) Braunschweig, Germany

Invisibles EU FP7 ITN:

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University of Durham, UK

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Laser Control of Electronic Exchange Interaction within a Molecule:

Institut für Theoretische Physik, Universität Heidelberg, Germany

Laser-induced electron diffraction (LIED) coincidence measurements with reaction microscopes:

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Low frequency dynamics in LCs:

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 Durham University

Mapping Resonance Structures in Transient Core-Ionized Atoms:

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Universität München, Germany
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Raniganj Girls' College, India
St. Petersburg Nuclear Physics Institute, Russia
St. Petersburg State University, Russia
Universidad de Huelva, Spain
University of Granada, Spain
University of Valencia CSIC, Spain
CIEMAT, Spain
UPC, Spain
Stockholm University, Sweden
CERN Geneva, Switzerland
Lawrence Livermore National Laboratory, USA
Michigan State University, USA
Louisiana State University, USA

Measuring the frequency chirp of extreme-ultraviolet free-electron laser pulses by transient absorption spectroscopy:

Physikalisches Institut, Westfälische Wilhelms-Universität Münster, Germany
FLASH/DESY, Hamburg, Germany
Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore
Division of Physics and Applied Physics, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore
Laboratorium für Physikalische Chemie, ETH Zürich, Switzerland
Department of Chemistry, University of California, Berkeley (CA), USA

Nonlinear Coherence Effects in Transient-Absorption Ion Spectroscopy with Stochastic Extreme-Ultraviolet Free-Electron Laser Pulses:

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Nanyang Technological University, Singapore
ETH Zürich, Switzerland
UC Berkeley, USA

Nuclear Experiments in storage rings:

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NUSTAR:

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Niels Bohr Institute Copenhagen, Denmark
University of Jyväskylä, Finland
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Universität Greifswald, Germany
Universität Tübingen, Germany
Universität Mainz, Germany
Forschungszentrum Karlsruhe, Germany
Forschungszentrum Rossendorf, Germany
INFN Padova, Italy
INFN Legnaro, Italy
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Universität Basel, Switzerland
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University of Liverpool, UK
CCLRC Daresbury Laboratory, UK
Argonne National Laboratory, USA
Los Alamos National Laboratory, USA
Pacific Northwest National Laboratory Richland, USA
University of Notre Dame, USA
Oak Ridge National Laboratory, USA

Optical clocks:

Wuhan Institute of Physics and Mathematics CAS, Wuhan, China
RIKEN, Fundamental Symmetries Laboratory, Saitama, Japan
PTB (Germany)
Birmingham University (UK)

Phase shifts due to continuum couplings:

University of Central Florida, Florida, USA
Drake University, Iowa, USA

Photocathodes for Cold Intense Electron Beams:

Rzhanov Institute of Semiconductor Physics, RAS, Novosibirsk, Russia

Probing ultrafast coherent dynamics in core-excited xenon by using attosecond XUV-NIR transient absorption spectroscopy:

Center for Free-Electron Laser Science CFEL, DESY, Hamburg, Germany
Institut für Theoretische Physik, Universität Hamburg, Germany

PUNCH4NFDI:

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Real-Time Reconstruction of the Strong-Field-Driven Dipole Response:

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Resolving Vibrations in a Polyatomic Molecule with Femtometer Precision:

Institut für Theoretische Physik, Universität Heidelberg, Germany

Resonant Perfect Absorption Yielded by Zero-Area Pulses:

School of Nuclear Science and Technology and Frontiers Science Center for Rare Isotopes, Lanzhou University, China
Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität Jena, Germany
Department of Physics and Astronomy, Louisiana State University, Baton Rouge (LA), USA

SFB Isolated quantum systems and universality in extreme conditions:

Heidelberg University, Germany

SHIPTRAP:

GSI Darmstadt, Germany
TU Darmstadt, Germany
Helmholtz-Institut Mainz, Germany
Universität Mainz, Germany
Universität Greifswald, Germany
Universität Gießen, Germany
LMU München, Germany

St. Petersburg Nuclear Physics Institute Gatchina, Russia
Universidad Granada, Spain

SPARC:

Centro Atomico Bariloche, Argentina
TU Wien, Austria
TRIUMF National Laboratory Vancouver, Canada
University of Manitoba Winnipeg, Canada
York University Toronto, Canada
Institute of Modern Physics, Chinese Academy of Sciences, China
China Institute of Atomic Energy Beijing, China
Institute of Applied Physics and Computational Mathematics Beijing, China
Fudan University Shanghai, China
Institute of Modern Physics Lanzhou, China
Jilin University, China
Lanzhou University, China
University of Science and Technology of China Hefei, China
Wuhan Institute of Physics and Mathematics, China
Northwest Normal University Lanzhou, China
Ruder Boskovic Institute Zagreb, Croatia
Institute of Physics, Czech Academy of Sciences, Czech Republic
University of Aarhus, Denmark
Cairo University Beni-Suef, Egypt
Institut des NanoSciences de Paris, France
Laboratoire Kastler-Brossel Paris (UPMC/ENS), France
CIMAP Caen, France
CIRIL-Ganil Caen, France
Ecole Normale Supérieure Lyon, France
Institut de Physique Nucléaire de Lyon, France
Groupe de Physique des Solides Paris, France
Deutsches Elektronen-Synchrotron DESY, Germany
Humboldt-Universität Berlin, Germany
Hahn-Meitner-Institut Berlin, Germany
Universität Jena, Germany
Universität Greifswald, Germany
Forschungszentrum Jülich, Germany
Universität Freiburg, Germany
GSI Darmstadt, Germany
Universität Gießen, Germany
TU München, Germany
LMU München, Germany
TU Dresden, Germany
Universität Tübingen, Germany
Universität Frankfurt am Main, Germany
Universität Mainz, Germany
Universität Kassel, Germany
TU Clausthal, Germany
Universität Heidelberg, Germany
TU Darmstadt, Germany
PTB Braunschweig, Germany
Universität Erlangen, Germany
University of Crete and IESL-FORTH Heraklion, Greece
Institute of Nuclear Research Debrecen, Hungary
Tata Institute of Fundamental Research Mumbai, India
Vaish College Rohtak, India
Nuclear Science Centre New Delhi, India
Bhabha Atomic Research Centre Mumbai, India
INFN Catania, Italy
University of Tokyo, Japan
RIKEN Wako, Japan
Hashemite University Zarqa, Jordan
Universidad Nacional Autónoma de México Cuernavaca, Mexico
Reijksuniversiteit Groningen, The Netherlands
B Z University Multan, Pakistan
Instituto Peruano de Energía Nuclear, Peru
Swietokrycka Academy Kielco, Poland

Jagellonian University Cracow, Poland
Warsaw University, Poland
Institute of Nuclear Physics of Polish Academy of Sciences Cracow, Poland
The Soltan Institute for Nuclear Studies Swierk, Poland
Universidade de Lisboa, Portugal
National Institute for Laser, Plasma & Radiation Physics, Romania
Institute for Space Sciences – INFLPR, Romania
National Institute for Physics and Nuclear Engineering Bucharest, Romania
RRC “Kurchatov Institute”, Russia
Petersburg Nuclear Physics Institute, Russia
Lebedev Physical Institute Moscow, Russia
St. Petersburg State University, Russia
Institute of Metrology for Time and Space Mendeleev, Russia
Institute of Spectroscopy of the RAS Troitsk, Russia
Moscow State University, Russia
V.G. Khlopin Radium Institute St. Petersburg, Russia
Institute of Physics Belgrade, Serbia and Montenegro
UNED – Universidad a Distancia, Spain
CIEMAT, Spain
Hospital Universitario La Paz, Spain
University of Madrid, Spain
CSIC Madrid, Spain
Chalmers University of Technology and Göteborg University, Sweden
Stockholm University, Sweden
Mid-Sweden University Sundsvall, Sweden
Lund University, Sweden
Manne Siegbahn Laboratory Stockholm, Sweden
CERN Geneva, Switzerland
University of Fribourg, Switzerland
Universität Basel, Switzerland
Queen’s University Belfast, UK
University of Durham, UK
Old Dominion University, USA
East Carolina University, USA
Lawrence Livermore National Laboratory, USA
Kansas State University, USA
Lawrence Berkeley National Laboratory, USA
Georgia State University Atlanta, USA
University of Missouri Rolla, USA
Oak Ridge National Laboratory, USA
Western Michigan University Kalamazoo, USA
Harvard-Smithsonian Center for Astrophysics Cambridge, USA
Brown University Providence, USA
University of Texas Austin, USA
Columbia University New York, USA
Heat Physics Department of the Uzbek Academy of Sciences, Uzbekistan

Spectral narrowing of x-ray pulses for precision spectroscopy with nuclear resonances:

ESRF, Grenoble, France
PETRAIII, DESY Hamburg, Germany

Spectroscopy of highly charged ions for EUV nanolithography:

Advanced Research Center for Nanolithography, EUV Plasma Processes, Amsterdam, The Netherlands

Spectroscopy of pure and doped He-droplets:

Aarhus University, Denmark
University of Freiburg, Germany
IITM Madras, India

Stereo:

IRFU, CEA, Université Paris-Saclay, 91191 Gif-sur-Yvette, France
Institut Laue-Langevin, CS 20156, 38042 Grenoble Cedex 9, France
Univ. Grenoble Alpes, Université Savoie Mont Blanc, CNRS/IN2P3, LAPP, 74000 Annecy, France
Univ. Grenoble Alpes, CNRS, Grenoble INP, LPSC-IN2P3, 38000 Grenoble, France

Strong-Field XUV Dressing of Atomic Double Excitation:

Shanghai Advanced Research Institute, Shanghai, China
European XFEL, Schenefeld, Germany

FLASH, DESY Hamburg, Germany
PTB Braunschweig, Germany
University of Crete and IESL-FORTH, Heraklion, Greece
Nanyang Technological University, Singapore
ETH Zürich, Switzerland
UC Berkeley, USA

SWG0:

Instituto de Astronomía y Física del Espacio, IAFE, CONICET-UBA, Buenos Aires, Argentina
Centro Atómico (CAB, CNEA) Bariloche, Argentina
Facultad de Ciencias Exactas - Universidad Nacional de Salta (UNSa), Argentina
Facultad de Ingeniería - Universidad Nacional de Salta (UNSa), Argentina
Instituto de Física La Plata (IFLP, CONICET-UNLP), Argentina
Instituto Argentino de Radioastronomía (IAR, CONICET-UNLP-CIC), Argentina
CBPF, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil
IFSC, Instituto de Física de São Carlos, Universidade de São Paulo, São Carlos, Brazil
IFF, Instituto Federal de Educação, Ciência e Tecnologia Fluminense, Rio de Janeiro, Brazil
Universidad Metropolitana de Ciencias de la Educación, Chile
CCTVal, Universidad Técnica Federico Santa María, Chile
Centro de Astronomía, Universidad de Antofagasta, Chile
Universidad Adolfo Ibáñez, Chile
CCE, Universidad del Bío-Bío, Chile
Institute of High Energy Physics, Chinese Academy of Science (IHEP,CAS), China
GongTsunghua University, China
Aerospace Information Research Institute, Chinese Academy of Science, China
University of Science and Technology Beijing, China
Hebei Normal University, China
Ludong University, China
Shandong University, China
Nanjing University, China
University of Science and Technology of China, China
Tsung-Dao Lee Institute, Shanghai Jiao Tong University, China
China University of Geosciences, China
Sun Yat-Sen University, China
University of Rijeka, Croatia
FZU, Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic
ECAP, Erlangen Centre for Astroparticle Physics - Universität Erlangen-Nürnberg, Erlangen, Germany
RWTH, Aachen, Germany
Dipartimento di Fisica, Università degli studi di Torino, Italy
Università di Padova, Dipartimento di Fisica e Astronomia & INFN Padova, Italy
Dipartimento di Fisica e Astronomia "E. Majorana", Università di Catania, Italy
Dipartimento di Fisica, Università di Trieste, Italy
Politecnico di Milano, Italy
Università degli Studi di Roma "Tor Vergata" - Dipartimento di Fisica, Italy
Dipartimento Interateneo di Fisica dell'Università e del Politecnico di Bari, Italy
INAF, Istituto Nazionale di Astrofisica, Italy
IF-UNAM, Instituto de Física, Universidad Nacional Autónoma de México, Mexico City, Mexico
IA-UNAM, Instituto de Astronomía, Mexico City, Mexico
ICN-UNAM, Instituto de Ciencias Nucleares, Mexico City, Mexico
IGEF-UNAM, Instituto de Geofísica, Mexico City, Mexico
INAOE, Instituto Nacional de Astrofísica Óptica y Electrónica, Puebla, Mexico
UNACH, Facultad de Ciencias en Física y Matemáticas, Chiapas, Mexico
Benemérita Universidad Autónoma de Puebla, Mexico
Universidad de Guadalajara, Mexico
Universidad Michoacana de San Nicolás de Hidalgo, Mexico
Centro de Investigación en Computación, Instituto Politécnico Nacional, Mexico
Tecnológico de Monterrey, Mexico
Universidad de Monterrey, Mexico
UNSA, Universidad Nacional de San Agustín de Arequipa, Peru
Pontificia Universidad Católica del Perú, Peru
LIP, Laboratório de Instrumentação e Física Experimental de Partículas, Lisboa, Portugal
Durham University, Durham, United Kingdom
University Leicester, United Kingdom
University of Oxford, United Kingdom
Michigan Technological University, Houghten-MI, United States of America
LNL, Los Alamos National Lab, Los Alamos-NM, United States of America

UMD, University of Maryland, College Park,-MD, United States of America
WIPAC, Wisconsin IceCube Particle Astrophysics Center, UW-Madison, United States of America

TCFS Center (Center for Time, Constants and Fundamental Symmetries):

RIKEN, Japan
Physikalisch-Technische Bundesanstalt, Germany
Max-Planck-Institut für Quantenoptik, Germany

TDYNO-Collaboration:

Commissariat à l'énergie atomique et aux énergies alternatives (CEA), France
Department of Physics, School of Natural Sciences, UNIST, Ulsan, Korea
University of Oxford, UK
Central Laser Facility, Rutherford Appleton Laboratories, STFC, UK
Lawrence Livermore National Laboratory, USA
Massachusetts Institute of Technology, Plasma Science and Fusion Centre, USA
University of Rochester, LLE, USA
University of Chicago, USA

ThoriumNuclearClock:

Technische Universität Wien, Austria
Physikalisch-Technische Bundesanstalt, Braunschweig, Germany
Ludwig-Maximilians-Universität München, Germany
Fraunhofer-Institut für Lasertechnik, Aachen, Germany
University of Delaware, Newark, DE, USA

Time-Resolved sub-Ångström Metrology by Temporal Phase Interferometry near X-Ray Resonances of Nuclei:

PETRAIII, DESY Hamburg, Germany
The Hamburg Center for Ultrafast Imaging, Hamburg, Germany

VHE Gamma-Ray Sources:

University of Adelaide, Australia

Watching the formation and reshaping of a Fano resonance in a macroscopic medium:

School of Nuclear Science and Technology, Lanzhou University, China
Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität Jena, Germany

XENON Collaboration:

NYUAD, Abu Dhabi
Tsinghua University, China
Subatech, France
LPNHE, France
LAL, France
Johannes Gutenberg Universität Mainz, Germany
Wilhelms-Universität Münster, Germany
Karlsruhe Institute of Technology, Germany
University of Freiburg, Germany
Weizmann Institute of Science, Israel
University of L'Aquila, Italy
Laboratori Nazionali del Gran Sasso, Italy
University of Bologna and INFN-Bologna, Italy
University of Torino and INFN-Torino, Italy
University of Napoli and INFN-Napoli, Italy
Kobe University, Japan
Nagoya University, Japan
University of Tokyo, Japan
Nikhef and the University of Amsterdam, The Netherlands
University of Coimbra, Portugal
Stockholm University, Sweden
University of Zurich, Switzerland
Rice University, USA
Purdue University, USA
Columbia University, USA
Rensselaer Polytechnic Institute, USA
University of Chicago, USA
University of California, San Diego, USA

X-ray laboratory astrophysics with free-electron lasers and synchrotron radiation:

IRAP Research Institute in Astrophysics and Planetology, Toulouse, France
RIKEN Nishina Center, High Energy Astrophysics Laboratory, Saitama, Japan

Institute of Space and Astronautical Science, Tokyo, Japan
Universidade Nova de Lisboa, Caparica, Portugal
UNIST, School of Natural Science – Physics, Ulsan, South Korea
Lawrence Livermore National Laboratory, Livermore, USA
NASA Goddard Space Flight Center, USA

X-ray transient absorption from the weak- to strong-field regime:

European XFEL, Schenefeld, Germany
Uppsala University, Sweden
Argonne National Laboratory, Lemont (IL), USA
Louisiana State University, Baton Rouge (LA), USA

XUV pump – XUV probe transient absorption spectroscopy at FELs:

Physikalisches Institut, Westfälische Wilhelms-Universität Münster, Germany
FLASH/DESY, Hamburg, Germany Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences,
Nanyang Technological University, Singapore
Division of Physics and Applied Physics, School of Physical and Mathematical Sciences, Nanyang Technological University,
Singapore
Laboratorium für Physikalische Chemie, ETH Zürich, Switzerland

XUV-FEL-pump – XUV-HHG-probe transient absorption spectroscopy of the dissociation dynamics of molecular oxygen (O₂):

Leibniz Universität Hannover, Germany
FLASH/DESY, Hamburg, Germany
CFEL/DESY, Hamburg, Germany
Helmholtz-Institut Jena, Germany
GSI Darmstadt, Germany
Kansas State University, Manhattan (KS), USA

XUV-Initiated Dissociation Dynamics of Molecular Oxygen (O₂):

Physikalisches Institut, Westfälische Wilhelms-Universität Münster, Germany
FLASH/DESY, Hamburg, Germany
Cabrini University, Radnor (PA), USA
Kansas State University, Manhattan (KS), USA