

Curriculum Vitae

Personal data

Name **Agnieszka Anna Jaron-Becker**
Present Address JILA and Department of Physics, University of Colorado, Boulder, CO
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Education and Employment

09/2014 - present **Associate Research Professor**, JILA and Department of Physics, University of Colorado, Boulder
09/2014 - present **Associate JILA Fellow**, JILA, University of Colorado, Boulder
09/2011 - 08/2014 **Senior Research Associate**, University of Colorado, Boulder
09/2008 - 08/2011 **Research Associate**, University of Colorado, Boulder
05/2007 - 01/2008 **Senior Research Associate**, Technical University of Dresden, Institute of Physical Chemistry, Dresden, Germany
01/2007 - 04/2007 **Family leave**
09/2005 - 12/2006 **Senior Research Associate**, Technical University of Dresden, Institute of Physical Chemistry, Dresden, Germany
08/2003 - 08/2005 **Postdoctoral Research Associate**, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany
03/2002 - 07/2003 **Postdoctoral Research Associate**, University of Bielefeld, Physics Department, Bielefeld, Germany
09/2001 - 09/2004 **Assistant Professor** (resigned to continue career in Germany), Warsaw University, Department of Physics, Institute of Theoretical Physics, Warsaw, Poland
04/2001 - 08/2001 **Postdoctoral Research Associate**, Warsaw University, Institute of Theoretical Physics
09/2000 - 12/2000 **Visiting Graduate Research Assistant**, University of Durham, AMO theory Group, Durham, UK
04/1998 - 10/1998 **Visiting Graduate Research Assistant**, University of Bielefeld, Physics Department, Bielefeld, Germany
1996 - 2000 **Graduate Research Assistant**, Warsaw University, Institute of Theoretical Physics, Warsaw, Poland
PhD Dissertation titled *Multiphoton processes in intense laser fields*. Best grades, distinction for PhD.
1991 - 1996 **Master and Undergraduate Studies** at Warsaw University, Institute of Theoretical Physics, Warsaw, Poland
Master Thesis titled *Coherent control of resonant processes in a strong laser beam*, best grades and prize for Master Thesis and 'Master Exam'

Awards, Fellowships, Scholarships and Grants

- 2015 - present NSF Physics Frontiers Center Investigator
Title: *Bridging the Gap from Few-Body to Many-Body through Quantum Control*
- 2012 - 2015 Elected member of the *Executive Committee of Topical Group of Few Body and Multiparticle Dynamics* of American Physical Society
- 2011 - 2015 **PI of NSF Award (single PI award)**
Division of Theory of Atomic Molecular and Optical Physics (TAMOP)
Title: *Physics of Multi-Electron Systems Interacting with Novel Laser Sources* (\$ 249,397 total award)
- 2010 - 2015 **Co-PI of AFOSR MURI Award**
Title: *Mathematical Modeling and Experimental Validation of Ultrafast Nonlinear Light-Matter Coupling Associated with Filamentation in Transparent Media* (\$ 225,000 - award to Co-PI)
- 2010 The Best Poster Presenter Award at the International Symposium on Ultrafast Intense Laser Science
- 2003 - 2005 **Research Fellowship of the Max Planck Institute for Physics of Complex Systems**
- 2002 - 2003 **Fellowship of the Alexander von Humboldt Foundation**
- 2002 **NATO Research Fellowship**
- 2002 **Faculty Prize for Teaching Excellence**, Department of Physics, Warsaw University (Certificate & Cash Award)
- 2001 - 2003 Co-PI of the grant from Polish Committee for Scientific Research
- 2001 **Distinction for the PhD Thesis and Teaching record** during PhD studies; PhD Summa Cum Laude
- 2001 - 2004 Elected member of the *Scientific Council of the Institute of Theoretical Physics*, Warsaw University
- 2000 **Research Scholarship of the European Commission**
- 1999 - 2000 **Award for Best Young Researchers: START Programme** from the Foundation for Polish Science (Certificate & Cash Award)
- 1999 - 2001 Several conference grants to attend International Conferences
- 1999 - 2000 **PI** of the 'PhD grant' of the Polish Committee for Scientific Research
- 1999 Summer Research Grant from the International Center for Theoretical Physics (ICTP), Trieste
- 1998 **Graduate Research Scholarship** of the European Physical Society
- 1997 - 2001 **Physics Department Graduate Fellowship**
- 1997 - 2000 Elected Graduate student member of the *Scientific Council of the Institute of Theoretical Physics*, Warsaw University
- 1996 **The Glazers' Prize for the Best Master Thesis** of the Physics Department of Warsaw University (Certificate & Cash Award)
- 1994 Summer School Stipend from the Studienstiftung des Deutschen Volkes (German Scholarship Foundation)
- 1992-1996 Awarded 'Annual Scientific Award for Best Undergraduate Students' ('Best GPA Award')

Research in numbers

- Publications in refereed journal: 86
- Conference papers: 116
- h-index: 19
- i10-index: 32
- Citations: 1950+
- Invited presentations: 40
- PI or co-PI on grants: 8
- Fellowships/scholarships: 6 (+ 5 conference stipends)
- (co)-Supervised students/postdocs: 23

Professional Affiliations

American Physical Society (APS)
Optical Society of America (OSA)
American Association for the Advancement of Science (AAAS)
American Chemical Society (ACS)

Collaborators (with published manuscripts) and Co-PIs

Andrius Baltuska (Technical University of Viena, Viena, Austria)
Andreas Becker (JILA and University of Colorado, Boulder)
Wilhelm Becker (Max Born Institute, Berlin)
Jens Biegert (ICFO, Barcelona, Spain)
Shaohao Chen (Boston University, Boston)
Ming-Chang Chen (National Tsing Hua University, Taiwan)
See Leang Chin (Laval University, Quebec, Canada)
Demetrios Christodoulides (CREOL-College of Optics and Photonics, Arizona)
Marcelo F. Ciappina (ELI-Beamlines, Czech Republic)
Oren Cohen (Technion - Israel Institute of Technology, Haifa)
Charles Durfee (Colorado School of Mines, Fort Collins)
Fritz Ehlötzky (Insbruck Univeristy, Insbruck, Austria)
Farhad H. M. Faisal (Bielefeld University, Bielefeld, Germany)
Eric Fullerton (University of California San Diego)
Alexander Gaeta (Cornell University, Ithaca)
Xiang Gao (Beijing Computational Science Research Center, Beijing, China)
Feng He (Shanghai Jiao Tong University, China)
Henry Kapteyn (JILA and University of Colorado, Boulder)
Jerzy Z. Kamiński (Warsaw University, Warsaw, Poland)
Ofer Kfir (Technion - Israel Institute of Technology, Haifa)
Katarzyna Krajewska (Warsaw University, Warsaw, Poland)
Stefan Koch (University of Marburg, University of Arizona)
Miroslav Kolesik (University of Arizona, Tucson)
Robert Levis (Temple University, Philadelphia)

Jiaming Li (Shanghai Jiao Tong University and Beijing Tsinghua University, China)
Wen Li (Wayne State University, Detroit)
Lars B. Madsen (University of Aarhus, Aarhus, Denmark)
Dejan Milosevic (Sarajevo University)
Jerry Moloney (University of Arizona, Tucson)
Robert Moshhammer (Max Planck Institute in Heidelberg, Germany)
Margaret Murnane (JILA and University of Colorado, Boulder)
Peter Oppeneer (Uppsala University)
Antonio Picòn Alvarez (Argonne National Laboratory, Chicago)
Luis Plaja (University of Salamanca, Spain)
Pavel Polynkin (University of Arizona, Tucson)
Robert M. Potvliege (Durham University, Durham, UK)
Audrius Pugzlys (Technical University of Vienna, Vienna, Austria)
Dmitri Romanov (Temple University, Philadelphia)
Gotthard Seifert (Technical University of Dresden, Dresden, Germany)
Oleg Shpyrko (University of California San Diego)
Jeff Squire (Colorado School of Mines, Fort Collins)
Norio Takemoto (Max Planck Institute for Complex systems, Dresden, Germany)
Joachim Ullrich (Max Planck Institute in Heidelberg, Germany)
Xiaobo Yin (University of Colorado, Boulder)
Barry Walker (University of Delaware, Newark)
Tie-Jun Wang (Shanghai Institute of Optics and Fine Mechanics, Shanghai, China)

Research Highlights

1. **JILA Research Highlights** : *Photoelectrons reveal the most complex light field to date* (2016).
2. **Nature**, **528**, p. 167, *Lasers trigger X-rays efficiently*, (doi:10.1038/528167c) (2015).
3. **Chemical & Engineering**, **93**, Issue 48, p. 37, *Brighter Attosecond X-Ray Pulses* (2015).
4. **JILA Research Highlights**: *Back to the Future: The Ultraviolet Surprise* (2015).
5. **JILA Research Highlights**: *The Guiding Light. Visible lasers provide exquisite control of x-ray light* (2015).
6. **JILA Research Highlights**: *An Ultrafast Photoelectric Adventure* (2015).
7. **JILA Research Highlights**: *The Long and the Short of Soft X-rays* (2014).
8. **JILA Research Highlights**: *Life in the Fast Lane* (2013).
9. **APS Highlights**: *Quickening the pulse* (7/2013).
10. **Nature** **500**, p. 9: *Images on subatomic scale* (8/2013).
11. **Physics World News**: *How to make zeptosecond X-ray pulses?* (7/2013).
12. **JILA Research Highlights**: *Sizzling Vibrations* (2013).
13. **JILA Research Highlights**: *X-ray Visionaries* (2012).
14. **Optics and Photonics News** **23**, 12, 38 *Ultrafast keV X-rays from Tabletop Femtosecond Lasers*(2012).
15. **National Science Foundation Press Release**: *All the Colors of a High-Energy Rainbow, in a Tightly Focused Beam* (2012).

16. **Optics and Photonics News:** *Tabletop Supercontinuum X-Ray Source* (2012).
17. **CNN (USA):** *Laser beam may one day replace X-rays* (2012).
18. **Science Daily Science News:** *Imaging the Nanoworld: Physicists Use Ultrafast Laser to Create First Tabletop X-Ray Device*, (www.sciencedaily.com) (2012).
19. **Science Daily Science News:** *Tabletop X-ray to Image Nanoworld: All the Colors of the High-Energy Rainbow in a Tightly Focused Beam*, (www.sciencedaily.com) (2012).
20. **OPN Video Highlight:** *Optics in 2012: Best of the Best*.
21. **Nature News:** *Tabletop X-rays light up* (2012).
22. **C&EN News:** *First Tabletop X-ray Laser* (2012).
23. **Los Angeles Times:** *Researchers produce first tabletop X-ray laser* (2012).
24. **BBC News:** *X-Ray lasers from tabletop device* (2012).
25. **JILA Research Highlights:** *The Long Goodbye* (2011).

Refereed Journal Articles and Proceedings

1. J. Z. Kamiński, **A. Jaron** and F. Ehlotzky,
Filtering resonance processes by bichromatic laser fields,
Journal of Physics B **28**, 4895-4905 (1995).
2. J. Z. Kamiński, **A. Jaron** and F. Ehlotzky,
Coulomb effects in multiphoton above-threshold ionization,
Physical Review A **53**, 1756-1761 (1996).
3. **A. Jaron**,
Coherent control of resonant processes in a strong laser beam,
Master in Science Degree (MSc.) Thesis, Warsaw University Libraries (1996).
4. J. Z. Kamiński, **A. Jaron** and F. Ehlotzky,
Phase control and filtering of resonance processes by bichromatic laser fields,
Coherence and Quantum Optics VII, Plenum, New York, pp. 529-530 (1996).
5. **A. Jaron** and J. Z. Kamiński,
Diffraction electron-atom scattering in an intense low-frequency laser field,
Physical Review A **56**, R4393-R4396 (1997).
6. F. Ehlotzky, **A. Jaron** and J. Z. Kamiński,
Electron-atom collisions in a laser field,
Physics Reports **297**, 63-154 (1998).
7. J. Z. Kamiński, **A. Jaron** and F. Ehlotzky,
On phase-coherence in rescattering in multiphoton ionization and in higher order harmonic generation,
Il Nuovo Cimento **20**, 19-27 (1998).
8. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
Asymmetries in the angular distributions of above threshold ionization in an elliptically polarized laser field,
Optics Communications **163**, 115-121 (1999).

9. **A. Jaron** and J. Z. Kamiński,
Kroll-Watson approximation revisited,
Laser Physics **9**, 81-87 (1999).
10. L. B. Madsen, **A. Jaron**, J. Z. Kamiński and K. Taulbjerg,
A selection rule in the theory of laser-assisted charged-particle scattering,
Physical Review A **60**, 5126-5128 (1999).
11. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
Stimulated radiative recombination and x-ray generation,
Physical Review A **61**, 023404-1-6 (2000).
12. **A. Jaron**, E. Męse and R. M. Potvliege,
Floquet analysis of laser induced continuum structures,
Journal of Physics B **33**, 1487-1505 (2000).
13. **A. Jaron**, J. Z. Kamiński, L. B. Madsen and K. Taulbjerg,
A systematic study of resonance and off-energy-shell effects in laser-assisted electron scattering,
Multiphoton Processes AIP Conference Proceedings, vol **525**, pp. 583-591 (2000).
14. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
Coherent phase control in laser-assisted radiative recombination and x-ray generation,
Journal of Physics B **34**, 1221-1232 (2001).
15. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
X-ray generation via stimulated recombination of electrons and Bohr's correspondence principle,
Super-Intense Laser-Atom Physics (proceedings), Kluwer Academic Publishing, pp. 265-274 (2001).
16. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
Bohr's correspondence principle and x-ray generation by laser-stimulated electron-ion recombination,
Physical Review A **63**, 055401, (2001).
17. **A. Jaron**, J. Z. Kamiński and F. Ehlotzky,
Laser-assisted radiative recombination and x-ray generation,
Laser Physics **11**, 174 (2001).
18. **A. Jaron**,
Multiphoton processes in intense laser fields,
PhD Thesis, Warsaw University Libraries (2001).
19. L. W. Garland, **A. Jaron**, J. Z. Kamiński and R. M. Potvliege,
Off-shell effects in laser-assisted electron scattering at low frequency,
Journal of Physics B **35**, 2861 (2002).
20. **A. Jaron** and A. Becker,
Laser-assisted and laser-induced electron-impact ionization during nonsequential double ionization of He,
Physical Review A **67**, 035401 (2003).
21. **A. Jaron-Becker**, A. Becker. and F. H. M. Faisal,
Dependence of strong-field photoelectron angular distributions on molecular orientation,
Journal of Physics B **36**, L375 (2003).
22. **A. Jaron-Becker**, A. Becker. and F. H. M. Faisal,
Ionization of N₂, O₂ and linear carbon clusters in a strong laser pulse,
Physical Review A **69**, 023410 (2004).

23. **A. Jaron-Becker**, A. Becker. and F. H. M. Faisal,
Signatures of molecular orientation and orbital symmetry in strong-field photoelectron angular and energy distributions of diatomic molecules and small carbon clusters,
Laser Physics **14**, 189 (2004).
24. **A. Jaron-Becker**, A. Becker and F.H.M. Faisal,
Signatures of molecular symmetry and alignment in strong field ionization of linear molecules,
Energierreiche Atomare Stoesse-Tagungsbericht, 4 pages (2004).
25. **A. Jaron-Becker**, A. Becker. and F. H. M. Faisal,
Physical Review A **72**, 069907 (2005).
26. **A. Jaron-Becker**, A. Becker. and F. H. M. Faisal,
Saturated ionization of fullerenes in intense laser fields,
Physical Review Letters **96**, 143006, (2006).
27. **A. Jaron-Becker**, A. Becker and F.H.M. Faisal,
Ionization of molecules in intense laser pulses,
Proceedings of the Conference on Super Intense Laser Atom Physics (2006).
28. **A. Jaron-Becker** and A. Becker,
Single-active-electron ionization of C_{60} in intense laser pulses to high charge states,
The Journal of Chemical Physics **126**, 124310 (2007).
29. M. F. Ciappina, **A. Jaron-Becker** and A. Becker,
Multislit interference patterns in high-order harmonic generation in C_{60} ,
Physical Review A **76**, 063406 (2007).
30. M. F. Ciappina, **A. Jaron-Becker** and A. Becker,
Theoretical analysis of high order harmonic generation in complex molecules,
Energierreiche Atomare Stoesse 28-Tagungsbericht, 3 pages (2007).
31. M. F. Ciappina, **A. Jaron-Becker** and A. Becker,
High-order harmonic generation in fullerenes with icosahedral symmetry,
Physical Review A **78**, 063405 (2008).
32. **A. Jaron-Becker** and A. Becker,
Suppressed molecular ionization due to interference effects,
Laser Physics **19**, 1705 (2009).
33. J.-F. Daigle, **A. Jaron-Becker**, S. Hosseini, T.-J. Wang, Y. Kamali, G. Roy, A. Becker,
and S.L. Chin,
Intensity clamping measurements of laser filaments at 400 nm and 800 nm,
Physical Review A **82**, 023405 (2010).
34. S.H. Chen, **A. Jaron-Becker**, and A. Becker,
Time-dependent analysis of few-photon coherent control schemes,
Physical Review A **82**, 013414 (2010).
35. W. Li, **A. Jaron-Becker**, C.W. Hogle, V. Sharma, X. Zhou, A. Becker, H.C. Kapteyn,
and M.M. Murnane,
Visualizing electron rearrangement in space and time during the transition from a molecule to atoms,
Proceedings of National Academy of Science (PNAS) **107**, 20219 (2010).
36. **A. Jaron-Becker**, Wen Li, Craig Hogle, Vandana Sharma, Andreas Becker, Margaret Murnane and Henry Kapteyn,
Visualising electron rearrangement in space and time during transition from a molecule to atoms,
Ultrafast Phenomena Proceedings, XVII, pp. 83-86 (2010).

37. A. Picòn, J. Biegert, **A. Jaron-Becker** and A. Becker,
Coherent control of the vibrational state population in a nonpolar molecule,
Physical Review A **83**, 023412 (2011).
38. J. Su, S.H. Chen, **A. Jaron-Becker** and A. Becker,
Temporal analysis of nonresonant two-photon coherent control involving bound and dissociative molecular states,
Physical Review A **84**, 065402 (2011).
39. J. Dura, A. Grün, P. Bates, S. Teichmann, T. Ergler, A. Senftleben, T. Pflöger, C. Schröter, R. Moshhammer, J. Ullrich, **A. Jaron-Becker**, A. Becker and J. Biegert,
On the Wavelength Dependence of the Suppressed Ionization of Molecules in Strong Laser Fields,
The Journal of Physical Chemistry A **116**, 2662 (2012).
40. B. Pasenow, J.V. Moloney, S.W. Koch, S.H. Chen, A. Becker, and **A. Jaron-Becker**,
Nonequilibrium evolution of strong field anisotropic ionized electrons toward a delayed plasma state,
Optics Express **20**, 2310-2318 (2012).
41. **A. Jaron-Becker**,
Strong Field Ionization Imaging of Electron Dynamics, High Intensity Lasers and High field Phenomena, **HILAS12, Proceedings of OSA Topical Meeting, 2012**, Online OSA Library.
42. J. Dura, A. Grün, P. Bates, S. M. Teichmann, T. Ergler, A. Senftleben, T. Pflüger, C. D. Schröter, R. Moshhammer, J. Ullrich, **A. Jaron-Becker**, A. Becker, J. Biegert
On the Wavelength Dependence of the Suppressed Ionization of Molecules in Strong Laser Fields, High Intensity Lasers and High field Phenomena, **HILAS12 , Proceedings of OSA Topical Meeting, 2012**, Online OSA Library.
43. T. Popmintchev, D. Popmintchev, Ming-Chang Chen, J. Siqueira, C. Hernández-García, J. Perez-Hernández, L. Plaja, A. Becker, **A. Jaron-Becker**, S. Alisauskas, G. Andriukaitis, A. Pugzlys, A. Baltuska, M. Murnane, H. Kapteyn,
Unified Microscopic-Macroscopic Picture of High Harmonic Generation from the VUV to the keV X-ray Region, **CLEO2012, Technical Digest OSA, Proceedings of OSA Topical Meeting, 2012**, Online OSA Library.
44. C. Hernández-García, T. Popmintchev, M. Murnane, H. Kapteyn, **A. Jaron-Becker**, A. Becker, L. Plaja,
Temporal structure of ultra high-order harmonic generation in the keV regime driven by mid-infrared lasers, **CLEO2012, Technical Digest OSA, Proceedings of OSA Topical Meeting, 2012**, Online OSA Library.
45. T. Popmintchev, D. Popmintchev, Ming-Chang Chen, J. Siqueira, C. Hernández-García, J. Perez-Hernández, L. Plaja, A. Becker, **A. Jaron-Becker**, S. Alisauskas, G. Andriukaitis, A. Pugzlys, A. Baltuska, M. Murnane, H. Kapteyn,
Ultrafast keV X-rays from Tabletop Femtosecond Lasers,
Optics and Photonics News (OPN), Online OSA Library, (2012).
46. **A. Jaron-Becker**,
Molecular dynamics in strong laser fields,
IEEE Journal of Selected Topics in Quantum Electronics **18**, 105-112 (2012).
47. T. Popmintchev, M.-C. Chen, D. Popmintchev, P. Arpin, S. Brown, S. Alisauskas, G. Andriukaitis, T. Balciunas, O. Mücke, A. Pugzlys, A. Baltuska, B. Shim, S.E. Schrauth, A. Gaeta, C. Hernández-García, L. Plaja, A. Becker, **A. Jaron-Becker**, M. Murnane and H. Kapteyn,

- A new frontier for nonlinear optics: bright coherent kiloelectronvolt ultrafast x-rays generated on a tabletop*,
Science **336**, 1287 (2012).
48. S. Chen, X. Gao, J. Li, A. Spott, A. Becker and **A. Jaron-Becker**,
Application of numerical basis set method to strong field excitation and ionization of hydrogen atom,
Physical Review A **86**, 013410 (2012).
 49. T. Popmintchev, M.-C. Chen, D. Popmintchev, P. Arpin, S. Brown, A. Becker, **A. Jaron-Becker**, M. M. Murnane, H. C. Kapteyn, S. Alivisaukas et al.,
"Ultrafast keV X-rays from Tabletop Femtosecond Lasers",
Optics and Photonics News **23**, 12, 38 (2012).
 50. A. Picòn, **A. Jaron-Becker** and A. Becker,
Enhancement of vibrational excitation and dissociation of H_2^+ in infrared laser pulses,
Physical Review Letters **109**, 163002 (2012).
 51. T. Popmintchev, D. Popmintchev, Ming-Chang Chen, J. Siqueira, C. Hernández-García, J. Pérez-Hernández, L. Plaja, A. Becker, **A. Jaron-Becker**, S. Alivisaukas, G. Andriukaitis, A. Pugzlys, A. Baltuska, M. Murnane, H. Kapteyn,
Unified Microscopic-Macroscopic Picture of High Harmonic Generation from the VUV to the keV X-ray Region,
CLEO2012, Technical Digest Optical Society of America, proceedings, 2 pages, Online OSA Library (2012).
 52. C. Hernández-García, T. Popmintchev, M. Murnane, H. Kapteyn, **A. Jaron-Becker**, A. Becker, L. Plaja,
Temporal structure of ultra high-order harmonic generation in the keV regime driven by mid-infrared lasers,
CLEO2012, Technical Digest OSA, proceedings, 2 pages, Online OSA Library (2012).
 53. A. Becker, N. Takemoto, A. Picòn and **A. Jaron-Becker**,
Attosecond intramolecular electron dynamics,
European Physics Journal: Web of Conferences **41**, 02008 (2013)
 54. J.Su H. Ni, A. Becker and **A. Jaron-Becker**,
Numerical simulation of time delay in light induced ionization,
Physical Review A **87**, 033420 (2013).
 55. J. Su, H. Ni, A. Becker and **A. Jaron-Becker**,
Theoretical analysis of time delays and streaking effects in XUV photoionization,
Journal of Modern Optics **60**, 1483 (2013).
 56. B. Pasenow, D. Dineen, J. Hader, M. Brio, J.V. Moloney, S.W. Koch, S.H. Chen, A. Becker and **A. Jaron-Becker**,
Anisotropic terahertz response from a strong-field ionized electron-ion plasma,
Physical Review E **87**, 033106 (2013).
 57. J.Su, H. Ni, A. Becker and **A. Jaron-Becker**,
Finite-range time delays in numerical attosecond-streaking experiments,
Physical Review A. **88**, 023413 (2013).
 58. C. Hernández-García, J.A. Pérez-Hernández, T. Popmintchev, M. Murnane, H. Kapteyn, **A. Jaron-Becker**, A. Becker and L. Plaja,
Zeptosecond keV X-ray pulse trains driven by mid-infrared laser pulses,
Physical Review Letters **111**, 033002 (2013).

59. A. Becker, F. He, A. Picòn, C. Ruiz, N. Takemoto and **A. Jaron-Becker**,
Observation and control of electron dynamics in molecules,
Book Chapter in **Attosecond physics** pp. 207-229, Springer (2013).
60. J. Su, A. Becker and **A. Jaron-Becker**,
Numerical simulations of attosecond streaking time delays in photoionization,
Chinese Journal of Physics **52**, pp. 404 (2014).
Invited article for special issue on Ultrafast intense laser science.
61. Y. Xia and **A. Jaron-Becker**,
Multielectron effects in ellipticity of high order harmonics generated from nitrogen molecule,
Optics Letters **39**, 1461 (2014).
62. J. Su, H. Ni, A. Becker and **A. Jaron-Becker**,
Attosecond streaking time delays: finite range property and classical approaches,
Physical Review A **89**, 013404 (2014).
63. M.-C. Chen, C. Hernández-García, C. Manusco, B. Galloway, P.-C. Huang, F. Dollar, D. Popmintchev, L. Plaja, **A. Jaron-Becker**, A. Becker, T. Popmintchev, M. M. Murnane, H. C. Kapteyn,
Generation of Bright Isolated Attosecond Soft X-Ray Pulses Driven by Multi-Cycle Mid-Infrared Lasers,
Proceedings of National Academy of Science **111**, E2361 (2014).
64. A.W. Spott, **A. Jaron-Becker** and A. Becker,
Ab initio and perturbative calculations of the electric susceptibility of atomic hydrogen,
Phys. Rev. A **90**, 013426 (2014).
65. C. Hernández-García, M.-C. Chen, C. Mancuso, F. Dollar, B. Galloway, D. Popmintchev, P. Huang, B. C. Walker, T. Popmintchev, M.M. Murnane, H.C. Kapteyn, L. Plaja, **A. Jaron-Becker**, A. Becker,
Theory of time-gated phase-matching for isolated attosecond soft x-ray pulse generation using mid-infrared lasers,
CLEO2014, Technical Digest OSA, proceedings, 2 pages, Online OSA Library (2014).
66. C. Mancuso, M.-C. Chen, C. Hernández-García, F. Dollar, B. Galloway, D. Popmintchev, B. Langdon, A. Auger, P. C. Huang, B. C. Walker, L. Plaja, **A. Jaron-Becker**, A. Becker, M. Murnane, H. Kapteyn, T. Popmintchev,
Generation of Bright Isolated Attosecond Soft X-Ray Pulses Driven by Multi-Cycle Mid-Infrared Lasers,
CLEO2014, Technical Digest OSA, proceedings, 2 pages, Online OSA Library (2014).
67. D. Popmintchev, C. Hernández-García, B. Shim, M.-C. Chen, F. Dollar, C. A. Mancuso, J. Pérez- Hernández, X. Gao, A. Hankla, A. L. Gaeta, M. Tarazkar, D. Romanov, R. Levis, **A. Jaron-Becker**, A. Becker, L. Plaja, M. Murnane, H. Kapteyn, T. Popmintchev,
Bright High Order Harmonic Generation in a Multiply Ionized Plasma up to the Water Window,
CLEO2014, Technical Digest OSA, proceedings, 2 pages, Online OSA Library (2014).
68. J. Su, H. Ni, A. Becker and **A. Jaron-Becker**,
Time delays in two photon ionization,
Phys. Rev. Lett. **113**, 263002 (2014).
69. M. R. Miller, C. Hernández-García, **A. Jaron-Becker** and A. Becker,
Targeting multiple rescatterings through VUV-controlled high harmonic generation,
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86. T. Fan, P. Grychtol, R. Knut, C. Hernández-García, D. Hickstein, C. Gentry, C. Hogle, D. Zusin, K. Dorney, A. Becker, **A. Jaron-Becker**, M.M. Murnane, H.C. Kapteyn, T. Popmintchev,
Bright Circularly Polarized Soft X-Ray High Harmonics for X-Ray Magnetic Circular Dichroism,
CLEO 2015 Laser Science to Photonics Applications, San Jose (2015).
87. C. Hernández-García, **A. Jaron-Becker**, A. Becker, C. Durfee,
Control of attosecond pulse and XUV high-order harmonic generation with spatially-chirped laser pulses,
CLEO 2015 Laser Science to Photonics Applications, San Jose (2015).
88. C. Hernández-García, T. Popmintchev, M. M. Murnane, H. C. Kapteyn, L. Plaja, A. Becker, **A. Jaron-Becker**,
Group-velocity mismatch effect in high-order harmonic generation,
CLEO 2015 Laser Science to Photonics Applications, San Jose (2015).

89. M. Miller, **A. Jaron-Becker**, A. Becker,
Development and application of accurate analytical models for single active electron potentials,
DAMOP15 Meeting of The American Physical Society, Columbus (2015).
90. M. Miller, **A. Jaron-Becker**, A. Becker,
Imaging nonadiabatic laser-driven electron transient localization through high order harmonic spectroscopy,
DAMOP15 Meeting of The American Physical Society, Columbus (2015).
91. M. Miller, **A. Jaron-Becker**, A. Becker,
Spectroscopic signatures of laser-induced non-adiabatic electron dynamics in H_2^+ ,
APS Division of Atomic, Molecular and Optical Physics Meeting, Columbus (2015).
92. A. Spott, A. Becker, **A. Jaron-Becker**,
Time Dependent Susceptibility of Helium,
APS Division of Atomic and Molecular Physics Meeting Columbus 2015; Bulletin of the American Physical Society Volume 60 Issue 7 (2015).
93. A. Spott, A. Becker, **A. Jaron-Becker**,
Nonlinear susceptibility past the limits of perturbation theory,
APS Division of Atomic, Molecular and Optical Physics Meeting, Columbus 2015; Bulletin of the American Physical Society Volume 60 Issue 7 (2015).
94. A. Becker, J. Su, H. Ni, **A. Jaron-Becker**,
Time Delays in Two-Photon Ionization,
Bulletin of the American Physical Society, Volume 60 Issue 7 (2015).
95. M. Miller, **A. Jaron-Becker**, A. Becker,
Imaging nonadiabatic laser-driven electron transient localization through high-order harmonic spectroscopy,
APS Division of Atomic, Molecular and Optical Physics Meeting 2015; Bulletin of the American Physical Society Volume 60 Issue 7 (2015).
96. **A. Jaron-Becker**,
Multielectron Effects in Molecular Dynamics Driven by Intense Laser Pulses,
International Laser Physics Workshop (LPHYS'15), Section on Strong Field and Attosecond Physics, Shanghai (2015).
97. **A. Jaron-Becker**,
Nonlinear Susceptibilities Past the Limits of Perturbation Theory,
International Laser Physics Workshop (LPHYS'15) Section on Nonlinear Optics and Spectroscopy, Shanghai (2015).
98. **A. Jaron-Becker**,
High harmonic and ultrashort pulse generation driven by mid-infrared lasers,
International Laser Physics workshop, LPHYS'15, Section on Modern Trends in Laser Physics, Shanghai (2015).
99. **A. Jaron-Becker**,
Theory of nonlinear susceptibilities and high harmonic generation,
MURI AFOSR Nonlinear Science Review Workshop, Arlington (2015).
100. B. K. Miller and **A. Jaron-Becker**,
Classical modelling of high harmonic generation with focus on elliptical polarization,
JILA Posterfest (2015).
101. C. Goldsmith, **A. Jaron-Becker**, A. Becker,
Attosecond streaking of electron dynamics in atoms and molecules,
JILA Posterfest (2015).

102. K. Dorney, J. Ellis, D. Hickstein, P. Grychtol, R. Knut, C. Hernández-García, D. Zusin, C. Gentry, J. Shaw, T. Fan, A. Becker, **A. Jaron-Becker**, C. Durfee, H. Kapteyn, M. Murnane,
Noncollinear generation of angularly isolated, circularly polarized high harmonics,
JILA Posterfest (2015).
103. C. Hernández-García, D.D. Hickstein, T. Popmintchev, M. M. Murnane, H. Kapteyn, A. Becker, **A. Jaron-Becker**, C. Durfee,
Isolated attosecond pulses with controlled polarization,
Super Intense Laser-Atom Physics Conference SILAP'15, Bordeaux (2015).
104. C. Hernández-García, D.D. Hickstein, T. Popmintchev, M. M. Murnane, H. Kapteyn, A. Becker, **A. Jaron-Becker**, C. Durfee,
Non-collinear generation of circularly polarized isolated attosecond pulses,
CHILI2016: Conference on High Intensity Lasers and Attosecond Science, Tel Aviv (2016).
105. C. Hernández-García, D. Hickstein, T. Popmintchev, M. Murnane, H. Kapteyn, **A. Jaron-Becker**, A. Becker, C. Durfee,
Generation of circularly polarized isolated attosecond pulses,
Ultrafast Science and Technology Spain meeting, Madrid (2016).
106. C. Hernández-García, T. Popmintchev, M. Murnane, H. Kapteyn, L. Plaja, A. Becker, **A. Jaron-Becker**,
Relevance of group velocity matching in high-order harmonic generation driven by midinfrared lasers,
CHILI2016: Conference on High Intensity Lasers and Attosecond Science in Israel, Tel Aviv (2016).
107. T. Fan, P. Grychtol, R. Knut, C. Hernández-García, D. D Hickstein, D. Zusin, C. Gentry, F. J. Dollar, C. Mancuso, C. Hogle, O. Kfir, D. Legut, K. Carva, J. Ellis, K. Dorney, C. Chen, O. Shpyrko, E. Fullerton, O. Cohen, P. Oppeneer, D. Milošević, A. Becker, **A. Jaron-Becker**, T. Popmintchev, M. Murnane, H. C. Kapteyn,
Bright Soft X-ray High Harmonic Generation with Circular Polarization for X-ray Magnetic Circular Dichroism,
Compact EUV and X-ray Light Sources, OSA Topical Meeting, Long Beach CA (2016).
108. T. Fan, R. Knut, C. Hernández García, D. Hickstein, D. Zusin, C. Gentry, F. Dollar, C. Mancuso, C. Hogle, J. Ellis, K. Dorney, D. Legut, K. Carva, P. Oppeneer, O. Shpyrko, E. Fullerton, O. Kfir, O. Cohen, D. Milosević, A. Becker, **A. Jaron-Becker**, T. Popmintchev, M. Murnane, H. Kapteyn, P. Grychtol,
Tabletop soft x-ray magnetic circular dichroism measurements using circularly polarized high harmonic sources,
APS March Meeting (2016).
109. T. Fan, P. Grychtol, R. Knut, C. Hernández-García, D. Hickstein, D. Zusin, C. Gentry, F. Dollar, C. Mancuso, C. Hogle, O. Kfir, D. Legut, K. Carva, J. Ellis ; K. Dorney, C. Chen, O. Shpyrko, E. Fullerton, O. Cohen, P. Oppeneer, D. Milosevic, A. Becker, **A. Jaron-Becker**, T. Popmintchev, H. Kapteyn, M. Murnane,
Generation of Bright Soft X-ray Harmonics with Circular Polarization for X-ray Magnetic Circular Dichroism,
CLEO 2016 OSA Conference, San Jose (2016).
110. Z. Tao, C. Chen, C. Hernández-García, P. Matyba, A. Carr, R. Knut, O. Kfir, D. Zusin, C. Gentry, P. Grychtol, O. Cohen, L. Plaja, A. Becker, **A. Jaron-Becker**, H. Kapteyn, M. Murnane,
Tomographic Reconstruction of Circularly Polarized High Harmonic Fields,
CLEO 2016 OSA Conference, San Jose (2016).

111. P. Huang, C.-H. Lu, C. Hernández-García; R.-T. Huang, P.-S. Wu, D. D. Hickstein, D. A. Thrasher, J. Ellis, A. H. Kung, S.-D. Yang, **A. Jaron-Becker**, A. Becker, H. Kapteyn, M. M. Murnane, C. Durfee, M.-C. Chen,
Isolated, Circularly Polarized, Attosecond Pulse Generation,
CLEO 2016 OSA Conference, San Jose (2016).
112. C. Chen, Z. Tao, C. Hernández-García, P. Matyba, A. Carr, R. Knut, O. Kfir, D. Zusin, C. Gentry, P. Grychtol, O. Cohen, L. Plaja, A. Becker, **A. Jaron-Becker**, H. C. Kapteyn, M. M. Murnane,
3D Characterization of Attosecond Pulse Trains with Circular Polarization,
International Conference on Ultrafast Phenomena, OSA Conference, Santa Fe (2016).
113. C. Hernández-García, C. G. Durfee, D. D. Hickstein, T. Popmintchev, A. Meier, I. J. Sola, M. M. Murnane, H. C. Kapteyn, **A. Jaron-Becker**, A. Becker,
Isolated circularly polarized attosecond pulses driven by few-cycle and multi-cycle non-collinear laser beams,
International Conference on Ultrafast Phenomena, OSA Conference, Santa Fe (2016).
114. Huang P, Lu C, Hernandez-Garcia C, Huang R, Wu P, Hickstein D, Thrasher D, Ellis J, Kung A, Yang S.,Becker A, **Jaron-Becker A**, Kapteyn H, Murnane M, Durfee C, Chen M,
Isolated, Circularly Polarized, Attosecond Pulse Generation,
International Conference on Ultrafast Phenomena 2016 July 17-July 22, 2016.
115. Fan T, Grychtol P, Knut R, Hernandez-Garcia C, Hickstein D, Gentry C, Hogle C, Zusin D, Dorney K, Shpyrko O., Cohen O, Kfir O, Plaja L, Becker A, **Jaron-Becker A**, Murnane M, Kapteyn H, Popmintchev T,
Bright Circularly Polarized Soft X-Ray High Harmonics for X-Ray Magnetic Circular Dichroism,
49th Hawaii International Conference on System Sciences (HICSS) January 05-January 08, 2016.
116. A. Jaron-Becker, A. Spott, A. Becker,
Ab initio calculations of time dependent nonlinear susceptibilities,
COFIL (2016)

Invited Talks

1. *Diffraction effects in laser - assisted electron - atom scattering*,
Polish Physical Society Scientific Session *Physics at the beginning of the 3rd Millenium*
Toruń, Poland, June 1997.
2. *Electron-atom scattering in low frequency intense laser fields*,
Optical Division Seminar, Warsaw, Poland, May 1998.
3. *Kroll-Watson theory revisited*,
Seminar on Atomic and Molecular Physics, Physics Department, University of Bielefeld,
June 1998.
4. *Kroll-Watson approximation*,
7th International Workshop on Laser Physics (LPHYS'98), Berlin, July 1998.
5. *Laser-assisted electron-ion recombination*,
Theoretical AMO Seminar, University of Durham, October 1999.
6. *Electron-ion recombination in strong laser fields*,
Center for Theoretical Physics, Polish Academy of Sciences, Warsaw, September 2000.

7. *Laser-assisted radiative recombination*,
9th Annual International Laser Physics Workshop (LPHYS'2000), Bordeaux, July 2000.
8. *X-ray generation via stimulated recombination of electrons and Bohr's correspondence principle*,
NATO Advanced Research Workshop on Super- Intense Laser-Atom Physics, Han-sur-Lesse Belgium, September 2000
9. *Strong field ionization of molecules*,
AMO Seminar, Max Planck Institute for Complex Systems, Dresden, October 2003
10. *Multiphoton ionization of small carbon clusters*,
International Laser Physics Workshop (LPHYS'03), Hamburg, August 2003
11. *Signatures of molecular symmetry and alignment in strong field ionization of linear molecules*,
25. Energiereiche Atomare Stoesse-Tagung, Riezlern/Kleinwalsertal, Austria, February 2004.
12. *Fullerenes and hydrocarbons in strong laser fields*,
Theoretical Physical Chemistry Seminar, University of Sendai, January 2005.
13. *Strong field ionization of molecules*,
Theoretical Quantum Chemistry Seminar, Dresden University of Technology, June 2005.
14. *Molecules in intense laser fields*,
Theoretical Physics Seminar, Chemnitz University of Technology, October 2005.
15. *Ionization of molecules in intense laser pulses*,
Conference on Super Intense Laser Atom Physics (SILAP06), Salamanca, June 2006.
16. *Application of Floquet theorem in atomic and molecular physics*,
Theoretical Quantum Chemistry Seminar, Dresden University of Technology, December 2007.
17. *Molecules and Electric Field: from molecular electronics to intense laser field physics*,
JILA Colloquium, Boulder, March 2008.
18. *Non-linear light-atom interaction*,
Nonlinear Optics Workshop (AFOSR MURI Review School & Workshop), Tucson, March 2011.
19. *Strong field ionization imaging of electron rearrangement in the simplest chemical reaction*,
20th International Laser Physics Workshop, Sarajevo July 2011.
20. *Intensity clamping measurement of laser filaments in air at 400 and 800 nm*,
20th International Laser Physics Workshop, Sarajevo, July 2011.
21. *Ab initio numerical simulations of laser-matter interaction*,
AFOSR MURI Review Workshop, Albuquerque, October 2011.
22. *Strong field ionization imaging of valence electron dynamics*,
The 42nd Winter Colloquium on the Physics of Quantum Electronics (PQE2012), Snowbird, January 2012.
23. *High harmonic generation spectroscopy of molecules in ground and excited states*,
21st International Laser Physics Workshop, Calgary 2012.
24. *Numerical simulations of time delays in photoionization of atoms*,
The 43rd Winter Colloquium on the Physics of Quantum Electronics (PQE2013), Snowbird, January 2013.

25. *Numerical simulations of strong field processes and its application to laser pulse filamentation*,
Nonlinear Optics Workshop (MURI AFOSR Review), Albuquerque, March 2013.
26. *Ultrafast intense laser science: from atoms towards nanostructures*,
Colloquium of Department of Physics, CU Boulder, April 2013.
27. *Nonlinear Simulation of Strong Field Processes and its Application to Laser Pulse Filamentation*,
Nonlinear Optics Workshop (MURI AFOSR Review), Arlington, September 2013.
28. *Ab initio simulations of nonlinear susceptibilities*,
International Workshop on Ultrafast Molecular Processes in Filamentation (IWUMPF), Shanghai, China, November 2013.
29. *Multielectron effects in strong field processes in molecules*,
Gordon Research Conference GRC 'Multiphoton Processes', Waltham, MA, June 2014.
30. *Multielectron effects in strong field processes in molecules*,
KITP Workshop 'Frontiers in Laser Science', Santa Barbara CA, August 2014.
31. *Numerical Simulations of Strong Field Processes and its Application to Laser Pulse Filamentation*,
Nonlinear Optics Workshop (Annual MURI Review), AFOSR Research Center, Arlington, September (2014).
32. *High harmonic and ultrashort pulse generation driven by midinfrared lasers*,
The 13th International Conference on Multiphoton Processes (ICOMP13), Shanghai, December 2014.
33. *Multielectron Effects in Molecular Dynamics Driven by Intense Laser Pulses*,
International Laser Physics Workshop (LPHYS'15), Section on Strong Field and Attosecond Physics, Shanghai, July 2015.
34. *Nonlinear Susceptibilities Past the Limits of Perturbation Theory*,
International Laser Physics Workshop (LPHYS'15) Section on Nonlinear Optics and Spectroscopy, Shanghai, July 2015.
35. *High harmonic and ultrashort pulse generation driven by mid-infrared lasers*,
International Laser Physics workshop, LPHYS'15, Section on Modern Trends in Laser Physics, Shanghai, July 2015.
36. *Theory of nonlinear susceptibilities and high harmonic generation*,
Nonlinear Science Review Workshop (AFOSR MURI Review), Arlington, October 2015.
37. *High harmonic generation: towards zeptosecond x-ray source and applications in ultrafast spectroscopy*,
Colloquium at Colorado School of Mines, Golden, March 2016.
38. *Ab initio calculations of time dependent nonlinear susceptibilities*,
International Symposium on Filamentation (COFIL16), Quebec, September 2016.
39. *Towards studies of multielectron effects in strong field processes*,
ITAMP Workshop 'The electronic-structure problem in theoretical strong-field physics', Harvard University, Boston, October 2016.
40. *Towards studies of multielectron effects in strong field processes*,
PQE-2017 The 47th Winter Colloquium on the Physics of Quantum Electronics Conference, Snowbird Utah January (2017)

Contributed Talks

41. *Solitons, instantons and nonperturbative methods of the description of the tunneling of particles,*
Conference on the Applications of the Path Integrals in the Field Theory and Quantum Mechanics, Cracow, August 1994.
42. *Ionization of molecules in intense laser fields,*
Spring Meeting of the German Physical Society (DPG Fruehjahrstagung), Berlin, March 2005.
43. *Strong field imaging of simplest molecular reaction,*
41st Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics (DAMOP2010), Houston, May 2010.
44. *Visualising electron rearrangement in space and time during transition from a molecule to atoms,*
17th International Conference on Ultrafast Phenomena, Snowmass Village, July 2010.
45. *Suppressed strong field ionization of polyatomic molecules,*
International Symposium on Ultrafast Intense Laser Science IX, Maui, December 2010.
46. *Visualizing electron rearrangement in space and time during the transition from a molecule to atoms,*
42nd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics (DAMOP2011) Atlanta, June 2011.
47. *Strong Field Ionization Imaging of Electron Dynamics,*
High Intensity Lasers and High field Phenomena (HILAS2012), Optical Society of America Topical Meeting, Berlin, March 2012.
48. *High harmonic generation spectroscopy of molecules in excited states,*
8th International Conference on Photo-Excited Processes and Applications (ICPEPA-8), Rochester, August 2012.
49. *Multielectron effects in strong field ionization of molecules,*
43rd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, DAMOP14 Madison 2014.