



1 DEJAN MILOŠEVIĆ - CURRICULUM VITAE

1.1 Datum i mjesto rođenja

5. juli 1959. godine, Sarajevo

1.2 Školovanje, studij, magistratura i doktorat

- 1973. završio osnovnu školu "Pavle Goranin" u Sarajevu
- 1977. maturirao u III Gimnaziji "Braća Ribar" u Sarajevu
- 1981. diplomirao na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu, Odsjek za fiziku, opšti smjer, sa srednjom ocjenom 9,65. Dobitnik je zlatne značke "Ognjen Prica" i Zlatne značke Univerziteta u Sarajevu
- 1986. završio postdiplomski studij teorijske fizike na Fizičkom fakultetu Prirodno-matematičkih fakultetu u Beogradu, odbranom magistarskog rada "Elektron - atomsko rasijanje u laserskom polju"
- 1990. odbranio doktorsku disertaciju "Atomski procesi u jakom laserskom polju" na Fizičkom fakultetu Prirodno-matematičkih fakulteta Univerziteta u Beogradu

1.3 Poznavanje jezika

Engleski (govori, piše, čita), služi se ruskim, francuskim i njemačkim jezikom

1.4 Kretanje u službi

- 1982.-1984. asistent u Institutu za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu
- 1984.-1998. istraživač u Centru za istraživanje i razvoj, preduzeće Zrak, Sarajevo

- 1991. docent za predmet "Laseri i infracrvena tehnika" na Odsjeku za preciznu mehaniku i optiku Mašinskog fakulteta Univerziteta u Sarajevu
- 1998. vanredni profesor za oblast "Teorijska fizika" na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu
- 2001. šef Katedre za atomsku, molekularnu i optičku fiziku na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu
- 2004. redovni profesor za oblast "Teorijska fizika" na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu
- 2004. voditelj Postdiplomskog studija fizičkih nauka na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu
- 2011. prodekan za međunarodnu saradnju i osiguranje kvaliteta na Prirodno-matematičkom fakultetu Sarajevo

1.5 Studijski boravci / naučno istraživački rad

- 1995. (april–decembar) Laboratoire de Physique Atomique et Moléculaire, Université Catholique de Louvain, Belgium
- 1996. (novembar–decembar) Laboratoire de Physique Atomique et Moléculaire, Université Catholique de Louvain, Belgium
- 1997. (februar–mart) Institute for Theoretical Physics, University of Innsbruck, Innsbruck, Austria
- 1997. (juni) Laboratoire de Physique Atomique et Moléculaire, Université Catholique de Louvain, Belgium
- 1997. (septembar–oktobar) Institute for Theoretical Physics, University of Innsbruck, Innsbruck, Austria
- 1998. (februar–mart) Institute for Theoretical Physics, University of Innsbruck, Innsbruck, Austria
- 1998.-1999. Department of Physics and Astronomy, The University of Nebraska, Lincoln, USA
- 1999.-2000. Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany (Alexander von Humboldt Fellowship)
- 2001. (juli) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2001. (august) Institute for Theoretical Physics, University of Innsbruck, Innsbruck, Austria

- 2002. (juli–august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2003. (maj) Department of Physics and Astronomy, The University of Nebraska, Lincoln, USA
- 2003. (august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2004. (august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2005. (august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2006. (august) Kavli Institute for Theoretical Physics, University of California, Santa Barbara, USA
- 2007. (august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany
- 2008. (august) Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany

1.6 Priznanja, učešća na skupovima, članstva u društvima

1. 18. decembra 2012. godine prof. dr. Dejan Milošević je izabran za redovnog člana Akademije nauka i umjetnosti Bosne i Hercegovine.
2. 2012-: Član Etičkog savjeta Univerziteta u Sarajevu.
3. 2012-2013: Member of the Steering Committee of the 22th International Laser Physics Workshop, Prague, Czech Republic.
4. Member of the Editorial Board of The Logical Foresight, a journal for logic and science, 2012.
5. 19. studenog 2011. godine prof. dr. Dejan Milošević je izabran za redovitog člana Hrvatskog društva za znanost i umjetnost.
6. 2011-2012: Member of the Steering Committee of the 21th International Laser Physics Workshop, Calgary, Canada.
7. Member of the Scientific Committee of the III International School and Conference on Photonics, Belgrade, Serbia, August 29 - September 2, 2011.
8. Co-Chair of the Seminar 2: Strong Field & Attosecond Physics, 20th International Laser Physics Workshop, Sarajevo, July 11-15, 2011.
9. Član Savjeta za nauku Kantona Sarajevo, 2011.

10. Dobitnik Pojedinačne Šestoaprilske nagrade Grada Sarajeva u 2011. godini za doprinos u oblasti nauke i obrazovanja.
11. 2010-2011: Deputy Chairman of the 20th International Laser Physics Workshop LPHYS'11, Sarajevo, 11. do 15. juli 2011. godine.
12. 17. decembra 2009. godine Senat Univerziteta u Sarajevu je prof. dr. Dejanu Miloševiću dodijelio nagradu za najuspješnijeg profesora u akademskoj 2008/2009. godini.
13. 19. septembra 2008. godine prof. dr. Dejan Milošević je izabran za dopisnog člana Akademije nauka i umjetnosti Bosne i Hercegovine.
14. Member of the Advisory board and Chairman of a session at the 14th Central European Workshop on Quantum Optics (CEWQO 2007), Palermo, Italy, June 1–5 (2007)
15. VolkswagenStiftung, program Cooperation with Natural and Engineering Scientists in Central and Eastern Europe (2001). Follow-up (2007).
16. Alexander von Humboldt Fellowship (1999). Follow-up (2000).
17. Prof. dr. Dejan Milošević je učestvovao na brojnim naučnim skupovima u zemlji i inostranstvu, najčešće sa vlastitim saopštenjima, uvodnim predavanjima ili plenarnim predavanjima. Podaci o tome mogu se vidjeti iz spiska objavljenih radova.
18. Prof. dr. Dejan Milošević je član Društva fizičara u Bosni i Hercegovini. Bio je potpredsjednik, a sada je član Upravnog odbora Društva. Veoma je aktivan u organizaciji takmičenja iz fizike, u održavanju predavanja na Školama fizike, izradi biltena itd. Bio je vođa ekipe Bosne i Hercegovine na prva dva njezina učešća na Međunarodnim olimpijadama iz fizike (Oslo 1996. i Sudbury 1997. godine).
19. Doživotni je član Američkog fizičkog društva (Life Member of the American Physical Society). Član je Forum on International Physics i Forum on Education.
20. Član je Američkog optičkog društva (Optical Society of America).

2 KLASIFIKACIJSKA LISTA NAUČNIH I STRUČNIH RADOVA

2.1 Kvalifikacijski radovi

1. D. Milošević, "Elektron - atomsko rasijanje u laserskom polju", magistarski rad, Fizički fakultet Prirodno-matematičkih fakulteta Univerziteta u Beogradu, str. 1–237, Beograd (1986)
2. D. Milošević, "Atomski procesi u jakom laserskom polju", doktorska disertacija, Fizički fakultet Prirodno-matematičkih fakulteta Univerziteta u Beogradu, str. 1–181, Beograd (1990)

2.2 Radovi citirani u Current Contents prema Web of Science

1. D. B. Milošević and P. S. Krstić, *Resonant potential scattering in an intense low-frequency laser field*, J. Phys. B: At. Mol. Phys. **20**, 2843–2852 (1987)
2. P. S. Krstić and D. B. Milošević, *On the low-frequency approximation for scattering of an electron in a laser field: An improved approximation*, J. Phys. B: At. Mol. Phys. **20**, 3487–3499 (1987)
3. D. B. Milošević and P. S. Krstić, *Potential scattering in an ultrastrong low-frequency laser field*, J. Phys. B: At. Mol. Opt. Phys. **21**, L303–L307 (1988)
4. P. S. Krstić and D. B. Milošević, *Relativistic effects in potential scattering of electrons in an ultrastrong laser field*, Phys. Rev. A: General Physics **39** (4), 1783–1790 (1989)
5. D. B. Milošević, P. S. Krstić, and R. K. Janev, *Formulation of the laser assisted resonant and Auger processes in slow collisions of atoms (ions) on metal surfaces*, Surface Science **227**, 347–360 (1990)
6. P. S. Krstić, D. B. Milošević, and R. K. Janev, *Zero-range potential model for the description of atomic and molecular systems in a laser field*, Phys. Rev. A: General Physics **44** (5), 3089–3107 (1991)
7. D. B. Milošević, *Ion neutralization at surfaces: a nonperturbative treatment*, Surface Science **273**, 175–190 (1992)
8. D. B. Milošević, *On-shell and off-shell low-frequency approximations for potential scattering in a strong laser field — optical theorem and sum rule*, J. Phys. B: At. Mol. Opt. Phys. **28**, 1869–1887 (1995)

9. D. B. Milošević, *Off-shell and on-shell low-frequency approximations for potential scattering in a strong elliptically polarized laser field*, Phys. Rev. A: General Physics **53** (1), 619–622 (1996)
10. D. B. Milošević, *Potential scattering in a strong multicolour laser field*, J. Phys. B: At. Mol. Opt. Phys. **29**, 875–893 (1996)
11. D. B. Milošević and B. Piraux, *High-order harmonic generation in a bichromatic elliptically polarized laser field*, Phys. Rev. A: General Physics **54** (2), 1522–1531 (1996)
12. Ph. Antoine, B. Piraux, D. B. Milošević, and M. Gajda, *Generation of ultrashort pulses of harmonics*, Phys. Rev. A: General Physics **54** (3), R1761–R1764 (1996)
13. Ph. Antoine, B. Piraux, D. B. Milošević, and M. Gajda, *Temporal profile and time control of harmonic generation*, Laser Physics **7** (3), 594–601 (1997)
14. D. B. Milošević and F. Ehlotzky, *Off-shell low-frequency approximation for potential scattering in a laser field: comparison with the Wallbank and Holmes experiments*, J. Phys. B: At. Mol. Opt. Phys. **30**, 2999–3007 (1997)
15. D. B. Milošević, F. Ehlotzky, and B. Piraux, *Inelastic electron–atom collisions in a bichromatic laser field*, J. Phys. B: At. Mol. Opt. Phys. **30**, 4347–4361 (1997)
16. D. B. Milošević, *Off-shell low-frequency approximation for potential scattering in a strong laser field: eikonal versus [1,1] Padé approximation*, J. Phys. B: At. Mol. Opt. Phys. **30**, 5251–5258 (1997)
17. D. B. Milošević and F. Ehlotzky, *Electron-atom ionizing collisions in the presence of a bichromatic laser field*, Phys. Rev. A: General Physics **56** (5), 3879–3887 (1997)
18. Ph. Antoine, D. B. Milošević, A. L’Huillier, M. B. Gaarde, P. Salières, and M. Lewenstein, *Generation of attosecond pulses in macroscopic media*, Phys. Rev. A: General Physics **56** (6), 4960–4969 (1997)
19. D. B. Milošević and F. Ehlotzky, *X-ray photoionization in the presence of a bichromatic laser field*, Phys. Rev. A: General Physics **57** (4), 2859–2866 (1998)
20. D. B. Milošević and F. Ehlotzky, *Influence of screening of the Coulomb potential on the plateau in above-threshold ionization*, Phys. Rev. A: General Physics **57** (6), 5002–5005 (1998)

21. A. de Bohan, Ph. Antoine, D. B. Milošević, and B. Piraux, *Phase-dependent harmonic emission with ultrashort laser pulses*, Phys. Rev. Lett. **81** (9), 1837–1840 (1998)
22. D. B. Milošević and F. Ehlotzky, *X-ray-atom scattering in the presence of a laser field*, Phys. Rev. A: General Physics **58** (3), 2319–2326 (1998)
23. D. B. Milošević and F. Ehlotzky, *Coulomb corrections in above-threshold ionization in a bichromatic laser field*, J. Phys. B: At. Mol. Opt. Phys. **31**, 4149–4161 (1998)
24. D. B. Milošević and F. Ehlotzky, *Coulomb and rescattering effects in above-threshold ionization*, Phys. Rev. A: General Physics **58** (4), 3124–3127 (1998)
25. D. B. Milošević and A. F. Starace, *Static-electric-field-induced, high-energy plateau for scattered x-ray photons in laser-assisted, x-ray-atom scattering*, Phys. Rev. Lett. **81** (23), 5097–6000 (1998)
26. D. B. Milošević and F. Ehlotzky, *Coulomb and rescattering effects in above-threshold ionization*, Laser Physics **9** (1), 149–154 (1999)
27. A. de Bohan, Ph. Antoine, D. B. Milošević, G. L. Kamta, and B. Piraux, *Phase sensitivity of harmonic emission with ultrashort laser pulses*, Laser Physics **9** (1), 175–183 (1999)
28. D. B. Milošević and F. Ehlotzky, *S-matrix theory of above-threshold ionization in a bichromatic laser field*, J. Phys. B: At. Mol. Opt. Phys. **32**, 1585–1596 (1999)
29. D. B. Milošević and A. F. Starace, *Phase control of x-ray-atom scattering in the presence of a bichromatic laser field*, J. Phys. B: At. Mol. Opt. Phys. **32**, 1831–1843 (1999)
30. D. B. Milošević and A. F. Starace, *Magnetic-field-induced intensity revivals in harmonic generation*, Phys. Rev. Lett. **82** (13), 2653–2656 (1999)
31. D. B. Milošević and A. F. Starace, *High-order harmonic generation in magnetic and parallel magnetic and electric fields*, Phys. Rev. A: General Physics **60** (4), 3160–3173 (1999)
32. D. B. Milošević and A. F. Starace, *Intensity dependence of plateau structures in laser-assisted x-ray-atom scattering processes*, Phys. Rev. A: General Physics **60** (5), 3943–3946 (1999)
33. D. B. Milošević and A. F. Starace, *Control of high-harmonic generation and laser-assisted x-ray-atom scattering with static electric and magnetic fields*, Laser Physics **10** (1), 278–293 (2000)

34. R. Kopold, D. B. Milošević, and W. Becker, *Rescattering processes for elliptical polarization: a quantum trajectory analysis*, Phys. Rev. Lett. **84** (17), 3831–3834 (2000)
35. D. B. Milošević, W. Becker, and R. Kopold, *Generation of circularly polarized high-order harmonics by two-color coplanar field mixing*, Phys. Rev. A: General Physics **61**, 063403, 1–15 (2000)
36. C. Figueira de Morisson Faria, D. B. Milošević, and G. G. Paulus, *Phase-dependent effects in bichromatic high-order harmonic generation*, Phys. Rev. A: General Physics **61**, 063415, 1–10 (2000)
37. D. B. Milošević and W. Becker, *Attosecond pulse trains with unusual nonlinear polarization*, Phys. Rev. A: General Physics **62**, 011403(R), 1–4 (2000)
38. D. B. Milošević, *Cut-off law for high-harmonic generation by an elliptically polarized laser field*, J. Phys. B: At. Mol. Opt. Phys. **33**, 2479–2488 (2000)
39. B. Borca, A. V. Flegel, M. V. Frolov, N. L. Manakov, D. B. Milošević, and A. F. Starace, *Static-electric-field-induced polarization effects in harmonic generation*, Phys. Rev. Lett. **85** (4), 732–735 (2000)
40. D. B. Milošević and W. Sandner, *Extreme-ultraviolet harmonic generation near 13 nm with a two-color elliptically polarized laser field*, Opt. Lett. **25** (20), 1532–1534 (2000)
41. D. B. Milošević, S. Hu, and W. Becker, *Quantum-mechanical model for ultrahigh-order harmonic generation in the moderately relativistic regime*, Phys. Rev. A: General Physics **63**, 011403(R), 1–4 (2001)
42. D. B. Milošević, W. Becker, R. Kopold, and W. Sandner, *High-harmonic generation by a bichromatic bicircular laser field*, Laser Physics **11** (2), 165–168 (2001)
43. P. Salières, B. Carré, L. Le Déroff, F. Grasbon, G. G. Paulus, H. Walther, R. Kopold, W. Becker, D. B. Milošević, A. Sanpera, and M. Lewenstein, *Feynman's Path-integral approach for intense-laser-atom interactions*, Science **292** (5518), 902–905 (2001)
44. S. X. Hu, D. B. Milošević, W. Becker, and W. Sandner, *High-efficiency high-order harmonic generation without tunneling*, Phys. Rev. A: General Physics **64**, 013410, 1–4 (2001)
45. D. B. Milošević, S. X. Hu, and W. Becker, *Relativistic ultrahigh-order harmonic generation*, Laser Physics **12** (2), 389–397 (2002)

46. S. X. Hu, A. F. Starace, W. Becker, W. Sandner, and D. B. Milošević, *Nontunnelling high-order harmonics from ultra-intense laser-driven tightly bound systems*, J. Phys. B: At. Mol. Opt. Phys. **35**, 627–650 (2002)
47. D. B. Milošević and F. Ehlotzky, *Rescattering effects in soft-x-ray generation by laser-assisted electron-ion recombination*, Phys. Rev. A: General Physics **65**, 042504, 1–11 (2002)
48. D. B. Milošević, G. G. Paulus, and W. Becker, *Phase-dependent effects of a few-cycle laser pulse*, Phys. Rev. Lett. **89** (15), 153001, 1–4 (2002)
49. R. Kopold, W. Becker, and D. B. Milošević, *Quantum orbits: a space-time picture of intense-laser-induced processes in atoms*, Journal of Modern Optics **49** (12), 1987–1999 (2002)
50. D. B. Milošević and W. Becker, *Role of long quantum orbits in high-order harmonic generation*, Phys. Rev. A: General Physics **66**, 063417, 1–14 (2002)
51. W. Becker, F. Grasbon, R. Kopold, D. B. Milošević, G. G. Paulus, and H. Walther, *Above-threshold ionization: from classical features to quantum effects*, Advances in Atomic, Molecular, and Optical Physics **48**, 35–98 (2002)
52. D. B. Milošević, G. G. Paulus, and W. Becker, *Above-threshold ionization with few-cycle laser pulses and the relevance of the absolute phase*, Laser Physics **13** (7), 948–958 (2003)
53. D. B. Milošević and W. Becker, *Relativistic high-order harmonic generation*, Journal of Modern Optics **50** (3/4), 375–386 (2003)
54. D. B. Milošević and F. Ehlotzky, *Laser-assisted electron-ion recombination: emitted photons' spectra and recollision effects*, Journal of Modern Optics **50** (3/4), 657–671 (2003)
55. R. Kopold, W. Becker, and D. B. Milošević, *Quantum orbits: a space-time picture of intense-laser-induced processes in atoms*, Physica Scripta **68**, C76–C81 (2003)
56. D. B. Milošević, G. G. Paulus, and W. Becker, *High-order above-threshold ionization with few-cycle pulse: a meter of the absolute phase*, Optics Express **11** (12), 1418–1429 (2003)
57. D. B. Milošević, A. Gazibegović-Busuladžić, and W. Becker, *Direct and rescattered electrons in above-threshold detachment from negative ions*, Phys. Rev. A: General Physics **68**, 050702(R), 1–4 (2003)

58. D. B. Milošević and W. Becker, *Classical cutoffs for laser-induced nonsequential double ionization*, Phys. Rev. A: General Physics **68**, 065401, 1–4 (2003)
59. D. B. Milošević and F. Ehlotzky, *Scattering and reaction processes in powerful laser fields*, Advances in Atomic, Molecular, and Optical Physics **49**, 373–532 (2003)
60. D. B. Milošević, G. G. Paulus, and W. Becker, *Metering the absolute phase of a few-cycle pulse via its high-order above-threshold ionization spectrum*, Laser Physics Lett. **1** (2), 93–99 (2004)
61. G. G. Paulus, F. Lindner, D. B. Milošević, and W. Becker, *Phase-controlled single-cycle strong-field photoionization*, Physica Scripta **T110**, 120–125 (2004)
62. A. Čerkić and D. B. Milošević, *Plateau structures in potential scattering in a strong laser field*, Phys. Rev. A: General Physics **70**, 053402, 1–8 (2004)
63. A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, *High-energy above-threshold detachment from negative ions*, Phys. Rev. A: General Physics **70**, 053403, 1–14 (2004)
64. D. B. Milošević and W. Becker, *Attosecond pulse generation by bicircular fields: from pulse trains to a single pulse*, Journal of Modern Optics **52** (2-3), 233–241 (2005)
65. A. Čerkić and D. B. Milošević, *Potential scattering in a bichromatic laser field: plateau structures*, Laser Physics **15** (2), 268–274 (2005)
66. D. B. Milošević, G. G. Paulus, and W. Becker, *Ionization by few-cycle pulses: Tracing the electron orbits*, Phys. Rev. A: General Physics **71**, 061404(R), 1–4 (2005)
67. F. Lindner, M. G. Schätzel, H. Walther, A. Baltuška, E. Goulielmakis, F. Krausz, D. B. Milošević, D. Bauer, W. Becker, and G. G. Paulus, *Attosecond double-slit experiment*, Phys. Rev. Lett. **95**, 040401, 1–4 (2005)
68. D. Bauer, D. B. Milošević, and W. Becker, *Strong-field approximation for intense-laser-atom processes: The choice of gauge*, Phys. Rev. A: General Physics **72**, 023415, 1–5 (2005)
69. S. Odžak and D. B. Milošević, *High-order harmonic generation in the presence of a static electric field*, Phys. Rev. A: General Physics **72**, 033407, 1–9 (2005)

70. E. Hasović, D. B. Milošević, and W. Becker, *A method of carrier-envelope phase control for few-cycle laser pulses*, Laser Physics Letters **3** (4), 200–204 (2006)
71. D. B. Milošević, D. Bauer, and W. Becker, *Quantum-orbit theory of high-order atomic processes in intense laser fields*, Journal of Modern Optics **53** (1–2), 125–134 (2006)
72. D. Bauer, D. B. Milošević, and W. Becker, *On the validity of the strong field approximation and simple man's theory*, Journal of Modern Optics **53** (1–2), 135–147 (2006)
73. M. Busuladžić, A. Gazibegović-Busuladžić, and D. B. Milošević, *High-order above-threshold ionization in a laser field: Influence of the ionization potential on the high-energy cutoff*, Laser Physics **16** (2), 289–293 (2006)
74. D. B. Milošević, *Theoretical analysis of high-order harmonic generation from a coherent superposition of states*, J. Opt. Soc. Am. B **23** (2), 308–317 (2006)
75. A. Čerkić and D. B. Milošević, *Interferences of real trajectories and the emergence of quantum features in electron-atom scattering in a strong laser field*, Phys. Rev. A: General Physics **73**, 033413, 1–7 (2006)
76. S. Odžak and D. B. Milošević, *Attosecond pulse generation by a coplanar circular and static field combination*, Physics Letters A **355**, 368–372 (2006)
77. D. B. Milošević, G. G. Paulus, D. Bauer, and W. Becker, *Above-threshold ionization by few-cycle pulses*, J. Phys. B: At. Mol. Opt. Phys. **39**, R203–R262 (2006)
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79. D. B. Milošević, *Strong-field approximation for ionization of a diatomic molecule by a strong laser field*, Phys. Rev. A: General Physics **74**, 063404, 1–14 (2006)
80. A. Čerkić and D. B. Milošević, *Focal averaging and incoherent scattering in laser-assisted radiative recombination and scattering processes*, Phys. Rev. A: General Physics **75**, 013412, 1–10 (2007)
81. A. Kramo, E. Hasović, D. B. Milošević, and W. Becker, *Above-threshold detachment by a two-color bicircular laser field*, Laser Physics Letters **4**, 279–286 (2007)

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84. D. B. Milošević, *High-energy stimulated emission from plasma ablation pumped by resonant high-order harmonic generation*, J. Phys. B: At. Mol. Opt. Phys. **40**, 3367–3376 (2007)
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2.4 Naučno-istraživački projekti

1. *Optimizacija optičkih sistema u aproksimaciji geometrijske optike i pomoću metoda optičke prenosne funkcije*, projekat podržan od Naučnog fonda grada Sarajeva, Institut za fiziku, Sarajevo (sa dr. Ivanom Negovetićem) (1982–1984)
2. *Multiphoton processes in isolated atoms and laser assisted heavy particle collisions*, Joint US-Yugoslav Project NSF801 (sa dr. Predragom S. Krstićem i prof. dr. M. H. Mittlemanom) (1988–1991)
3. *Dizajniranje i proizvodnja podržani računalom: Razvoj softvera i hardvera za CAD/CAM*, projekat Naučno-istraživačkog fonda Republike Bosne i Hercegovine, DC-IX Produktika TO-1 NP-2, Zrak-Holding - Centar

za istraživanje i razvoj i Mašinski fakultet, Univerzitet u Sarajevu (sa dr. Ivanom Negovetićem) (1989–1992)

4. *Atomic processes in a strong laser field* (Atomski procesi u jakom laserskom polju), projekat podržan od *Central European Research Support Scheme*, ugovor br. OSI-90/94, Soros Fondacija, Otvoreno društvo – Fond Bosna i Hercegovina (1994–1995)
5. *Scattering processes and high-order harmonic generation in presence of a multicolour laser field* (Procesi rasijanja i generacije viših harmonika u prisustvu polihromatskog laserskog polja), projekat podržan od *Research Support Scheme in Science*, ugovor br. RSS-32/96, Soros Fondacija, Otvoreno društvo – Fond Bosna i Hercegovina (1996–1997)
6. *Relativistische Effekte bei laserinduzierten atomaren Prozessen* (Relativistički efekti u laserom indukovanim atomskim procesima), projekat podržan od *Österreichischer Akademischer Austauschdienst* (sa prof. Fritz Ehlotzkym) (2000–2001)
7. *Control of atomic processes with strong fields*, projekat podržan od *Volkswagen fondacije*, program: *Cooperation with Natural and Engineering Scientists in Central and Eastern Europe* (2001–2006)
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10. *Controlled Electron Re-scattering: Femtosecond, Sub-Ångstrom, Imaging of Single Molecules*, projekat podržan od *NSERC Special Research Opportunity Program*, Canada (Principal Investigator: M. Ivanov) (2004–2007)
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12. *Jonizacija iznad praga pomoću bicirkularnog laserskog polja*, projekat podržan od Ministarstva obrazovanja i nauke, Kanton Sarajevo, Federacija Bosne i Hercegovine (2005–2006)
13. *Control of atomic processes with strong fields*, follow-up projekat podržan od *Volkswagen fondacije*, program: *Cooperation with Natural and Engineering Scientists in Central and Eastern Europe* (2007–2008)

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15. *Primjena jakih laserskih polja u atofizici i atohemiji*, projekat podržan od Federalnog ministarstva obrazovanja i nauke, Federacija Bosne i Hercegovine (2009)
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106. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker,

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115. M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, *Two-source double-slit interference in angle-resolved high-energy above-threshold ionization spectra of diatoms*, XXVI International Conference on Photonic, Electronic, and Atomic Collisions, Western Michigan University, Kalamazoo, Michigan, USA, July 22–28, Fr183 (2009)
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118. D. B. Milošević, W. Becker, M. Okunishi, G. Prümper, K. Shimada, and K. Ueda, *Strong-field electron spectra of rare gas atoms in the rescattering region: channel closing and a simulation of the experiment*, Second International Conference on Attosecond Physics, Kansas State University, Manhattan, Kansas, USA, July 28 - August 1, S40, Book of Abstract, p. 86 (2009)
119. M. Busuladžić, A. Gazibegović-Busuladžić, E. Hasović, D. B. Milošević, and W. Becker, *Atoms and molecules in a strong laser field*, II International School and Conference on Photonics, Belgrade, Serbia, August 24–28, p. 64 (2009)
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122. D. B. Milošević, invited speaker, talk: *High-energy structures in above-threshold ionization of atoms and molecules*, Conference: Advances in Strong-Field and Attosecond Physics, University College London, June 23–25 (2010)
123. H. Hultgren, I. Yu. Kiyan, B. Bergues, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, *Electron rescattering in above-threshold photodetachment of negative ions*, 10th European Conference on Atoms, Molecules and Photons (ECAMP 10), Salamanca, Spain, July 4–9 (2010)
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133. D. B. Milošević, *High-order atomic and molecular processes in intense fields*, Workshop on Intense Fields and Attosecond Science, Department of Physics and Astronomy, Aarhus, Denmark, September 6 (2012)

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5. D. B. Milošević i P. S. Krstić, *Uticaj laserskog polja na dinamiku rezonantnih i Auger procesa u jon (atom) površina sudarima*, VI Jugoslovenski skup iz fizike atomskih sudara, str. 31, H1, Brioni (1989)

2.9 Predavanja na BH skupovima

1. D. B. Milošević, *Nobelova nagrada iz fizike za 2001. godinu*, predavanje na Drugoj zimskoj školi eksperimentalne fizike, 7–12. januar 2002., Sarajevo (2002)
2. D. Milošević, *Spektroskopija. Holografija. Rezonatori*, Kurs MET-2002/11: Laserska tehnika, Mašinski fakultet Univerziteta u Sarajevu, novembar 2002., Sarajevo (2002)
3. D. B. Milošević, *Fizika atoma*, predavanje iz moderne fizike na Trećoj zimskoj školi eksperimentalne fizike, 13–18. januar 2003., Sarajevo (2003)
4. D. Milošević, *Atomski procesi u jakom laserskom polju*, Seminar za nastavnike i profesore fizike: Fizika u obrazovanju - teme savremene fizike, Fojnica, 22.–25. januar (2003)
5. D. Milošević, E. Hasović, i A. Kramo, *Od fotoefekta do jonization pomoću jakog laserskog polja*, Seminar za nastavnike i profesore fizike, Fojnica, Januar 27–29 (2005)
6. D. Milošević, *Nobelova nagrada iz fizike za 2005: kvantna optika i laserska precizna spektroskopija*, plenarno predavanje na Seminaru za nastavnike i profesore fizike, Fojnica, Januar 19–21 (2006)
7. D. Milošević, *Deset najljepših naučnih eksperimenata u fizici*, Seminar za nastavnike i profesore fizike, Fojnica, 17.–20. januar (2008)
8. D. Milošević, *Attophysics (Atofizika)*, I Kongres fizičara Bosne i Hercegovine, Teslić, 20.–22. decembar (2008)
9. B. Fetić, A. Kramo, A. Gazibegović-Busuladžić, S. Odžak, E. Hasović, A. Čerkić, M. Busuladžić, and D. Milošević, *Atomic and molecular processes in a strong laser field*, poster, I Kongres fizičara Bosne i Hercegovine, Teslić, 20.–22. decembar (2008)
10. E. Hasović, M. Busuladžić i D. B. Milošević, *Generacija ultrakratkih laserskih impulsa i molekularna spektroskopija*, Seminar za nastavnike i profesore fizike, Fojnica, 20-22. januar (2009)
11. D. Milošević, *Atofizika*, pristupno predavanje u ANUBiH, 12. maj (2010)

12. D. Milošević, *Zašto nam još trebaju atomska energija i atomski fizičari / Why we still need atomic energy and atomic physicists*, Razgovori o nauci i umjetnosti, naučno-popularno predavanje prilikom svečanog otvaranja kampusa Univerziteta Sarajevo School of Science and Technology, Ilidža, 28. septembar (2012)

2.10 Publikacije Centra za istraživanje i razvoj, "Zrak", Sarajevo

1. D. Milošević, *Optimizacija optičkih sistema pomoću Fourierove optike*, str. 1–48, u saradnji sa Institutom za fiziku, Prirodno-matematički fakultet, Sarajevo (1982)
2. D. Milošević, *Trasiranje zraka kroz asferične optičke površine*, str. 1–19 (1985)
3. D. Milošević, *Trasiranje zraka kroz prostorne optičke sisteme*, str. 1–5 (1985)
4. I. Negovetić i D. Milošević, *Kompjuterska analiza performansi optičkih sistema*, str. 1–16 (1985)
5. D. Milošević, *Talasne aberacije; koeficijenti aberacionog polinoma*, str. 1–11 (1985)
6. D. Milošević, *Proračun difrakcione optičke prenosne funkcije za sisteme sa centralnim ekranima*, str. 1–9 (1986)
7. I. Negovetić i D. Milošević, *Ekspertni sistem za projektovanje optičkih prizmi pomoću računara*, str. 1–10 (1986)
8. D. Milošević, *Proračun optičkih tolerancija na računarima*, str. 1–26 (1986)
9. D. Milošević i I. Negovetić, *Proračun i grafički prikaz talasnih aberacija optičkog sistema*, str. 1–8 (1987)
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11. D. Milošević, *Optičke tolerancije*, str. 1–9 (1987)
12. D. Milošević, *Izveštaj o proračunu optičkog rezonatora: optičke tolerancije za planparalelni rezonator laserskog mjerača daljine (impulsni Nd:YAG laser)*, str. 1–18 (1987)
13. D. Milošević, *Dopuna izvještaja o proračunu optičkog rezonatora: izlazna energija, snaga i vrijeme trajanja impulsa za rezonator sa pasivnim Q-prekidačem (program LASEN)*, str. 1–16 (1988)

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2.11 Recenzije

1. G. Knežević, *Zbirka zadataka iz specijalne teorije relativnosti*, Univerzitet u Sarajevu (2003)
2. M. Pirić, *Osnove kvantne mehanike, statističke fizike i fizike čvrstog stanja*, Univerzitet u Sarajevu (2005)
3. I. Doršner, *Simetrije u fizici*, Prirodno-matematički fakultet u Sarajevu (2013)

Prof. dr. Dejan Milošević je referee (recenzent) za slijedeće časopise:

1. Chemical Physics
2. European Physical Journal D
3. European Physical Journal Special Topics
4. Europhysics Letters
5. Journal of Applied Physics
6. Journal of Modern Optics
7. The Journal of Physical Chemistry
8. Journal of Physics B
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10. Naša škola
11. New Journal of Physics
12. Optics Express
13. Optics Letters

14. Physics Letters A
15. Physica Scripta
16. Physica B
17. Physica status solidi
18. Physical Review A
19. Physical Review Letters

2.12 Urednik / kourednik

1. D. Mirjanić, D. Milošević, and B. Predojević, *The First Physics Congress of Bosnia and Herzegovina*, Teslić, Bosnia and Herzegovina, December 20–22, 2008, 59 pages.

2.13 Relevantne publikacije

Ovdje su navedene publikacije koje sadrže komentare ili pregled radova prof. dr. Dejana Miloševića.

1. *Milosevic, Starace propose novel source of coherent x-rays*, u časopisu *Art & Science Columns*, koji publikuje The University of Nebraska, Arts & Sciences Alumni Association, Fall (1999) [komentar rada: D. B. Milošević and A. F. Starace, *Static-electric-field-induced, high-energy plateau for scattered x-ray photons in laser-assisted, x-ray-atom scattering*, Phys. Rev. Lett. **81** (23), 5097–6000 (1998)]
2. A. Hardy, *Die Pfade des Eingefangenen Lichts*, Frankfurter Allgemeine Zeitung, Seite N2, 30. Mai 2001, Nr. 124 (2001) [komentar rada: P. Salières, B. Carré, L. Le Déroff, F. Grasbon, G. G. Paulus, H. Walther, R. Kopold, W. Becker, D. B. Milošević, A. Sanpera, and M. Lewenstein, *Feynman's path-integral approach for intense-laser-atom interactions*, Science **292** (5518), 902–905 (2001)]
3. Charles Seife, *Quantum physics: Loopy electron model solves ion mystery*, in *News of the Week*, Science **292** (5518), 823–825 (2001) [komentar rada: P. Salières, B. Carré, L. Le Déroff, F. Grasbon, G. G. Paulus, H. Walther, R. Kopold, W. Becker, D. B. Milošević, A. Sanpera, and M. Lewenstein, *Feynman's path-integral approach for intense-laser-atom interactions*, Science **292** (5518), 902–905 (2001)]
4. Peter Rodgers (editor časopisa Physics World), *New look for classic experiment*, članak u martovskom broju časopisa Physics World; vidjeti i: *Physicsweb*, March 2 (2005) [komentari rada: F. Lindner, M. G.

Schätzel, H. Walther, A. Baltuška, E. Goulielmakis, F. Krausz, D. B. Milošević, D. Bauer, W. Becker, and G. G. Paulus, *Attosecond double-slit experiment*, Phys. Rev. Lett. **95**, 040401, 1–4 (2005)]

3 NASTAVNO-PEDAGOŠKI RAD

3.1 Dodiplomski studij

1. *Mašinski fakultet Univerziteta u Sarajevu*
 - asistent na predmetu “Fizika” (1982.-1984.),
 - izabran u zvanje docenta za predmet “Laseri i infracrvena tehnika” na Odsjeku za preciznu mehaniku i optiku (1991.),
 - angažman na predmetima “Optoelektronika”, “Teorija optičkih instrumenata” i “Optička mjerenja” (od 1992.) i “Konstrukcija optičkih instrumenata” (od 1993.).
2. *Odsjek za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu*
 - držao nastavu iz izbornog predmeta “Osnove laserske fizike” (1994., 1995. i 2008.-2010.),
 - držao nastavu iz predmeta “Kvantna mehanika” i “Matematičke metode fizike” (1997./1998.),
 - izabran u zvanje vanrednog profesora za oblast “Teorijska fizika” (1998.),
 - predaje predmete “Kvantna mehanika” i “Kvantna teorija polja” (od 2000.),
 - vodio nastavu iz predmeta “Uvod u atomsku i nuklearnu fiziku” (2001.) i “Fotonika–laseri” (2003.),
 - izabran u zvanje redovnog profesora za oblast “Teorijska fizika” (2004.),
 - u školskoj 2007./2008. godini vodio nastavu iz predmeta “Kvantna teorija polja”, “Teorija elektromagnetnog polja”, “Odabrana poglavlje savremene fizike I”, “Kvantna mehanika I i II”, “Specijalna teorija relativnosti” i “Statistička fizika”, a u 2008./2009. godini “Viši kurs optike I”,
 - od školske 2008./2009. godine vodi nastavu iz predmeta “Kvantna mehanika I i II”, “Odabrani dijelovi kvantne fizike I i II” i “Kvantna teorija polja I i II”.
3. Prof. dr. Dejan Milošević je bio mentor većeg broja diplomskih radova na smjeru Precizna mehanika i optika na Mašinskom fakultetu Univerziteta u Sarajevu i na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu.

3.2 Postdiplomski studij

1. *Postdiplomski studij iz fizike na Univerzitetu u Tuzli*
 - predavao predmet “Kvantna mehanika u primjenama” (2002.),
 - angažman na predmetima: “Interakcija zračenja sa materijom”, “Atomska i molekularna fizika” i “Teorija rasijanja” (2003.-2004.).

2. *Postdiplomski studij fizičkih nauka na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu*
 - voditelj smjera “Teorijska atomska fizika i optika”,
 - nastava iz predmeta “Viši kurs kvantne mehanike” i “Relativistička kvantna mehanika” (od 2002.),
 - nastava iz predmeta “Viši kurs teorije polja” i “Kvantna optika” (od 2003.),
 - voditelj cijelog postdiplomskog studija fizičkih nauka (od 2004.).
3. *II ciklus studija na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu*
 - nastava iz predmeta “Viši kurs kvantne mehanike” i “Viši kurs teorije polja” (od 2009.).

Prof. dr. Dejan Milošević je mentor u izradi magistarskih radova sljedećim magistrantima:

1. Aner Čerkić, “Rasijanje elektrona na atomima u prisustvu jakog laserskog polja”, magistarski rad, Prirodno-matematički fakultet Univerziteta u Tuzli, Tuzla (2005),
2. Azra Gazibegović-Busuladžić, “Odvajanje elektrona od negativnih jona u jakom laserskom polju”, magistarski rad, Prirodno-matematički fakultet Univerziteta u Tuzli, Tuzla (2005),
3. Senad Odžak, “Generacija viših harmonika u prisustvu jakog statičkog električnog polja”, magistarski rad, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku, smjer Teorijska atomska fizika i optika, Sarajevo (2007),
4. Mustafa Busuladžić, “Jonizacija atoma jakim laserskim poljem”, magistarski rad, Prirodno-matematički fakultet Univerziteta u Tuzli, Tuzla (2007),
5. Elvedin Hasović, “Jonizacija iznad praga pomoću ultrakratkog laserskog pulsa”, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku, smjer Teorijska atomska fizika i optika (2010),
6. Benjamin Fetić, “Numerička analiza vremenski zavisne Schrödingerove jednačine sa primjenom na proces jonizacije iznad praga”, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku, smjer Teorijska atomska fizika i optika (2011),
7. Ivan Brlek, “Rekombinacija elektrona i jona u prisustvu jakog laserskog polja”, Prirodno-matematički fakultet Univerziteta u Tuzli (prijavljena tema za magistarski rad 2007 g.),

8. Aida Kramo, "Odvajanje elektrona od negativnih jona pomoću bi-cirkularnog laserskog polja", Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku, smjer Teorijska atomska fizika i optika (magistarski rad u izradi od 2008. g.).

3.3 Doktorati

Prof. dr. Dejan Milošević je 2003. godine bio član komisije za odbranu doktorske disertacije Nenada Miloševića na Technische Universität Wien, Austria.

Prof. dr. Dejan Milošević je bio mentor pri izradi doktorskih disertacija slijedećim doktorantima:

1. Aner Čerkić, "Procesi rasijanja u jakom laserskom polju", doktorska disertacija, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku, Sarajevo (2008),
2. Mustafa Busuladžić, "Jonizacija iznad praga molekularnih sistema u jakom laserskom polju", doktorska disertacija, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku (2010),
3. Azra Gazibegović-Busuladžić, "Negativni joni u jakom laserskom polju – simulacija eksperimenata", doktorska disertacija, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku (2010),
4. Senad Odžak, "Generacija viših harmonika na molekularnim sistemima", doktorska disertacija, Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku (2010),
5. Elvedin Hasović, "Jonizacija iznad praga poliatomskih molekula u okviru aproksimacije jakog polja", Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku (2013).

DM je bio član komisije (oponent) za odbranu doktorata:

Adam Etches, "High-order harmonic generation from polar molecules", PhD thesis, Department of Physics and Astronomy, Faculty of Science, Aarhus University, Denmark (2012)

Od 2011. godine DM je mentor doktorske disertacije čija izrada je u toku:

Benjamin Fetić, "Numeričko rješavanje vremenski zavisne Schrödingerove jednačine za molekularne sisteme sa primjenom na proces jonizacije iznad praga", Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za fiziku.

4 NAJZNAČAJNIJI NAUČNI USPJESI AKADEMIKA DEJANA MILOŠEVIĆA U PERIODU 1998.-2013.

Prof. dr. Dejan B. Milošević (DM) ima preko 127 objavljenih CC radova citiranih više od 3608 puta prema bazi podataka Web of Science. h-indeks tih radova je 31.

Predstavit ćemo hronološki najznačajnije naučne uspjehe prof. dr. Dejana Miloševića u zadnjih 15 godina.

1998

DM je izabran u zvanje vanrednog profesora na Univerzitetu u Sarajevu.

A. de Bohan, Ph. Antoine, D. B. Milošević, and B. Piraux, "Phase-dependent harmonic emission with ultrashort laser pulses", *Phys. Rev. Lett.* **81**, 1837 (1998).

Ovaj rad je rezultat naučne saradnje sa kolegama iz Laboratoire de Physique Atomique et Moléculaire Université Catholique de Louvain, Belgium. Dio je doktorske teze Francuskinje Armelle de Bohan. To je prvi rad o generaciji viših harmonika pomoću ultrakratkog laserskog polja (tzv. few-cycle laser pulse) koji je otvorio put potpuno novoj oblasti nauke – attoscience. Koristi se i termin attophysics (atofizika; atto = 10^{-18} ; uporediti sa terminom femtohemija (femto = 10^{-15}) – A. Zewail je dobio Nobelovu nagradu za hemiju 1999. godine za otkrića u femtohemiji).

D. B. Milošević and A. F. Starace, "Static-electric-field-induced, high-energy plateau for scattered x-ray photons in laser-assisted, x-ray-atom scattering", *Phys. Rev. Lett.* **81**, 5097 (1998).

Ovaj rad je objavljen tokom postdokorskog boravka DM na Department of Physics and Astronomy, The University of Nebraska, Lincoln, USA. Rad je privukao pažnju naučne javnosti. Radilo se o novom metodu generisanja koherentnih X-zraka sa mogućnošću primjene u više oblasti nauke – npr. za holografiju x-zraka u hemiji, biologiji i medicini. Komentar o tome pod naslovom: "Milosevic, Starace propose novel source of coherent x-rays", je objavljen u "Arts & Science Columns", the University of Nebraska, Arts & Sciences Alumni Association, Fall 1999.

1999

D. B. Milošević and A. F. Starace, "Magnetic-field-induced intensity revivals in harmonic generation", *Phys. Rev. Lett.* **82**, 2653 (1999).

I ovaj rad je objavljen tokom postdokorskog boravka DM na Department of Physics and Astronomy, The University of Nebraska, Lincoln, USA. Rad je citiran i u monografiji enciklopedijskog tipa: R. Menzel, "Photonics", Springer, Berlin, 2001.

2000

B. Borca, A. V. Flegel, M. V. Frolov, N. L. Manakov, D. B. Milošević, and A. F. Starace, "Static-electric-field-induced polarization effects in harmonic generation", *Phys. Rev. Lett.* **85**, 732 (2000).

Ovaj rad je dio doktorske teze Rumuna Bogdana Borce.

R. Kopold, D. B. Milošević, and W. Becker, "Rescattering processes for elliptical polarization: a quantum trajectory analysis", *Phys. Rev. Lett.* **84**, 3831 (2000).

Kao dobitnik Alexander von Humboldt Fellowship tokom 1999./2000. godine DM je boravio na Max-Born-Institut für Nichtlineare Optik und Kurzzeit-Spektroskopie, Berlin, Germany. Ovaj rad je dio doktorske teze Nijemca Richarda Kopolda: "Atomare Ionisationsdynamik in starken Laserfeldern" za koju je dobio Leibnizovu nagradu.

D. B. Milošević and W. Sandner, "Extreme ultraviolet harmonic generation near 13 nm with a two-color elliptically polarized laser field", *Optics Letters* **25**, 1532 (2000).

Ovaj rad je objavljen u koautorstvu sa direktorom Max-Born-Instituta prof. dr. Wolfgangom Sandnerom. U tom radu su analizirane različite varijante optimizacije generacije viših harmonika što otvara mogućnosti njihove primjene u elektronskoj industriji za EUV litografiju pri 13 nm ("0,1 μm generacija" integralnih kola).

2001

P. Salieres, B. Carre, L. Le Deroff, F. Grasbon, G. G. Paulus, H. Walther, R. Kopold, W. Becker, D. B. Milošević, A. Sanpera, and M. Lewenstein, "Feynman's path-integral approach for intense-laser-atom interactions", *Science* **292** (5518), 902–905 (2001).

Ovo je najznačajniji rad DM. Rezultat je višegodišnje saradnje veće grupe naučnika. Eksperimentalno su potvrđeni raniji teorijski rezultati DM koji pokazuju da je Feynmanov metod prirodan okvir za analizu atomskih procesa u jakom laserskom polju. Rad je privukao veliku pažnju javnosti. Iz-

abran je za novost sedmice u časopisu Science: Charles Seife, "Quantum physics: loopy electron model solves ion mystery", in *News of the Week*, Science **292** (5518), 823–825 (2001), a komentar o tom radu je objavljen i u dnevnoj štampi: A. Hardy, "Die Pfade des Eingefangenen Lichts", Frankfurter Allgemeine Zeitung, Seite N2, 30. Mai 2001, Nr. 124.

2002

D. B. Milošević, G. G. Paulus, and W. Becker, "Phase-dependent effects of a few-cycle laser pulse", *Phys. Rev. Lett.* **89**, 153001 (2002).

U ovom radu je teorijski objašnjen prvi eksperiment u kojem je zapažen tzv. efekat apsolutne faze (uticaj relativne faze između nosioca talasa i obvojnice laserskog pulsa na procese u jakom polju; *Nature* **414**, 182 (2001)), koji je preloman za razvoj jedne potpuno nove oblasti fizike – atofizike.

W. Becker, F. Grasbon, R. Kopold, D. B. Milošević, G. G. Paulus, and H. Walther, "Above-threshold ionization: from classical features to quantum effects", *Advances in Atomic, Molecular and Optical Physics* **48**, 35–98, Academic Press, Amsterdam (2002) [ISBN: 0-12-003848-X]

Ovo je duži revijalni članak koji je privukao pažnju naučne javnosti.

2003

D. B. Milošević and F. Ehlotzky, "Scattering and reaction processes in powerful laser fields", *Advances in Atomic, Molecular and Optical Physics* **49**, 373–532, Elsevier Academic Press, Amsterdam (2003) [ISBN: 0-12-003849-8; ISSN: 1049-250X]

U ovom radu monografskog tipa su na 160 strana sistematski predstavljene reakcije i procesi rasijanja u jakom laserskom polju.

D. B. Milošević, G. G. Paulus, and W. Becker, "High-order above-threshold ionization with few-cycle pulse: a meter of the absolute phase", *Optics Express* **11**, 1418–1429 (2003).

U ovom radu je predviđeno da se apsolutna faza može mjeriti u stereoeksperimentu jonizacije iznad praga. Ovo je eksperimentalno potvrđeno iste godine.

2004

Odlukom Senata Univerziteta u Sarajevu knjiga DM izabrana za univerzitetski udžbenik: D. Milošević, "Relativistička kvantna mehanika", Univerzitetski udžbenik, bosniaARS, Tuzla (2005) [ISBN: 995874620-4]

DM je izabran u zvanje redovnog profesora na Univerzitetu u Sarajevu.

2005

F. Lindner, M. G. Schätzel, H. Walther, A. Baltuška, E. Goulielmakis, F. Krausz, D. B. Milošević, D. Bauer, W. Becker, and G. G. Paulus, "Attosecond double-slit experiment", *Phys. Rev. Lett.* **95**, 040401 (2005).

Ovo je izuzetno značajan rad sa fundamentalnog stanovišta. Eksperiment sa interferencijom jednog elektrona na dvije prostorne pukotine je povezan sa misterijama i paradoksima u kvantnoj mehanici. Prema izboru časopisa *Physics World* i *New York Times* taj eksperiment je izabran kao najljepši u naučni eksperiment u istoriji. Novi eksperiment čiji je koautor DM predstavlja analog tog eksperimenta, ali u vremenu, a ne u prostoru. Na internetu se može naći na hiljade stranica o tome ako se unese npr. "Double Slit Sarajevo". Ovdje navodimo slijedeći članak: "New look for classic experiment" in March 2005 issue of *Physics World*, by Peter Rodgers, Editor of *Physics World*; vidjeti i "Physicsweb", March 2 (2005)

D. Bauer, D. B. Milošević, and W. Becker, "Strong-field approximation for intense-laser-atom processes: The choice of gauge", *Phys. Rev. A* **72**, 023415 (2005).

Izbor kalibracije (gaugea) elektromagnetnog polja već dugo predstavlja zagonetku i problem za naučnike. Ovaj rad doprinosi rasvjetljenju tog problema za slučaj interakcije atoma sa laserskim poljem. Rad je citiran neočekivano veliki broj puta za kratko vrijeme.

2006

D. B. Milošević, G. G. Paulus, D. Bauer, and W. Becker, "Above-threshold ionization by few-cycle pulses", *J. Phys. B: At. Mol. Opt. Phys.* **39**, R203–R262 (2006) (Topical Review).

Ovo je veoma zapaženi revijalni članak koji je izabran kao Topical Review "Highlights of 2006" u časopisu *Journal of Physics B* (vidjeti: <http://www.iop.org/EJ/journal/-page=extra.highlights06/0953-4075>).

D. B. Milošević, "Atomic processes in strong laser fields", invited talk, Attosecond Science Workshop, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, July 31 – September 15 (2006) (video i audio snimak ovoga predavanja DM-a u trajanju dužem od sata može se naći na <http://online.kitp.ucsb.edu/online/atto06/>)

DM je bio pozvani predavač na čuvenom Kavli institutu za teorijsku fiziku na University of California, Santa Barbara, gdje je boravio mjesec dana radeći sa najpoznatijim svjetskim naučnicima na razvoju nove oblasti nauke – attonauke.

2007

Student DM-a Elvedin Hasović osvojio je nagradu "Franceska Palumbo" za prezentaciju zajedničkog postera: E. Hasović and D. B. Milošević, "Simulation of above-threshold ionization experiments with noble gases using the strong-field approximation", na 14th Central European Workshop on Quantum Optics (CEWQO 2007), Palermo, Italy, June 1–5 (2007).

2008

M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, "Angle-resolved high-order above-threshold ionization spectra for N₂ and O₂: measurements and the strong-field approximation", *J. Phys. B: At. Mol. Opt. Phys.* **41**, 201004, 1–5 (2008) (Fast Track Communication)

U ovom radu je upoređena simulacija spektara molekula jonizovanih jakim laserskim poljem sa eksperimentalnim rezultatima dobijenim u Japanu.

Rezultati su odmah zapaženi u naučnoj javnosti i ovaj rad je izabran u "IOP Select" kao rad koji predstavlja "Substantial advances or significant breakthroughs, a high degree of novelty, and significant impact on future research" u časopisu *Journal of Physics B* (vidjeti: <http://Select.iop.org>).

19. septembra 2008. godine DM je izabran za dopisnog člana Akademije nauka i umjetnosti Bosne i Hercegovine.

2009

M. Okunishi, R. Itaya, K. Shimada, G. Prümper, K. Ueda, M. Busuladžić, A. Gazibegović-Busuladžić, D. B. Milošević, and W. Becker, "Two-source double-slit interference in angle-resolved high-energy above-threshold ionization spectra of diatoms", *Phys. Rev. Lett.* **103**, 043001 (2009).

Eksperimenti interferencije sa dvije pukotine su od fundamentalnog značaja za objašnjenje fizikalnih pojava. U ovom radu je otkriven i objašnjen novi tip interferencije koji se javlja pri jonizaciji dvoatomskih molekula. Karakterističan je po tome što postoje dva izvora elektrona (atomske centri dvoatomske molekule) i dvije "pukotine" (predstavljene ponovo sa dva atomska centra na kojima se jonizovani elektron rasijava). Rad je nastao u saradnji sa eksperimentalnom istraživačkom grupom iz Japana. Grupa DM u Sarajevu je simulirala i objasnila spektre elektrona detektovanih pri jonizaciji tih molekula jakim laserskim poljem.

Senat Univerziteta u Sarajevu je prof. dr. Dejanu Miloševiću dodijelio nagradu za najuspješnijeg profesora u akademskoj 2008/2009. godini.

2010

A. Gazibegović-Busuladžić, D. B. Milošević, W. Becker, B. Bergues, H. Hultgren, and I. Yu. Kiyon, "Electron rescattering in above-threshold photodetachment of negative ions", *Phys. Rev. Lett.* **104**, 103004 (2010).

U ovom radu su prvi puta eksperimentalno zapaženi elektroni koji su se odvojili od negativnih jona broma pod djelovanjem jakog laserskog polja i zatim rasijali na matičnom atomu prije nego što su registrovani detektorom. Simulacija eksperimenta pomoću teorije odvajanja iznad praga višeg reda, koja je razvijena u istraživačkoj grupi prof. Miloševića u potpunosti objašnjava eksperimentalne rezultate. Rad je posebno značajan jer je otkriven tzv. "rescattering" (naknadno rasijanje) mehanizam kod negativnih jona.

DM je bio mentor za tri uspješno odbranjena doktorata na Odsjeku za fiziku Prirodno-matematičkog fakulteta Univerziteta u Sarajevu (Mustafa Busuladžić, Azra Gazibegović-Busuladžić i Senad Odžak).

2011

DM je dobitnik "Pojedinačne Šestoaprilske nagrade Grada Sarajeva u 2011. godini" za doprinos u oblasti nauke i obrazovanja.

Slika iz rada:

S. Odžak and D. B. Milošević, *Ellipticity and the offset angle of high harmonics generated by homonuclear diatomic molecules*, *J. Phys. B: At. Mol. Opt. Phys.* **44**, 125602, 1–7 (2011),

je izabrana za naslovnu stranu časopisa *Journal of Physics B* koji izdaje IOP Publishing. Na slici je u false color tehnici prikazan parametar eliptičkog dihroizma.

Rad na organizaciji Laser Physics konferencije (20th International Laser Physics Workshop – LPHYS'11). Ova jubilarna 20-ta međunarodna naučna konferencija iz laserske fizike je uspješno održana u Sarajevu od 11. do 15. jula 2011. godine. Na konferenciji je učestvovalo oko 400 naučnika iz 43 zemlje. DM je bio Deputy Chairman konferencije i Co-Chair of the Scientific Seminar 2: Strong Field & Attosecond Physics.

2012

18. decembra 2012. godine DM je izabran za redovnog člana Akademije nauka i umjetnosti Bosne i Hercegovine.

2013

DM je objavio svoj prvi rad u jednom časopisu iz matematičke fizike:
Phase space path-integral formulation of the above-threshold ionization,
Journal of Mathematical Physics **54**, 042101, 1–9 (2013)

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