

Spisak naučnih radova razvrstanih prema kategorijama naučnog rada (M koeficijenti)

*** radovi objavljeni nakon prethodnog izbora u zvanje

Radovi u međunarodnom časopisima izuzetnih vrednosti (M21A)

M21A- 1

M. M. Mijailović, **J. Dimitrijević**, A. J. Krmpot, Z. D. Grujić, B. M. Panić, D. Arsenović, D. V. Pantelić, and B. M. Jelenković, On non-vanishing amplitude of Hanle electromagnetically induced absorption in Rb, *Optics Express* Vol. **15**, Issue 3, pp. 1328-1339 (2007).

DOI: 10.1364/OE.16.001343

URL: <http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-16-2-1343>

M21A - 2

J. Dimitrijević, D. Arsenović, and B. M. Jelenković, Intensity dependence narrowing of electromagnetically induced absorption in a Doppler-broadened medium, *Physical Review A* **76**, 013836 (2007).

DOI: 10.1364/OE.16.001343

URL: <http://link.aps.org/DOI/10.1103/PhysRevA.76.013836>

M21A - 3

J. Dimitrijević, A. Krmpot, M. Mijailović, D. Arsenović, B. Panić, Z. Grujić, and B. M. Jelenković, Role of transverse magnetic fields in electromagnetically induced absorption for elliptically polarized light, *Physical Review A* **77**, 013814 (2008).

DOI: 10.1103/PhysRevA.77.013814

URL: <http://link.aps.org/DOI/10.1103/PhysRevA.77.013814>

M21A – 4

J. Dimitrijević, Z. Grujić, M. Mijailović, D. Arsenović, B. Panić and B.M. Jelenković, Enhancement of electromagnetically induced absorption with elliptically polarized light laser intensity dependent coherence effect, *Optics Express* Vol. **16**, Issue 2, pp. 1343-1353 (2008).

DOI: 10.1364/OE.16.001343

URL: <http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-16-2-1343>

M21A - 5

J. Dimitrijević, D. Arsenović, and B. M. Jelenković, Coherent processes in electromagnetically induced absorption: a steady and transient study, *New Journal of Physics* **13**, 033010 (2011).

DOI: 10.1088/1367-2630/13/3/033010

URL: <http://iopscience.iop.org/1367-2630/13/3/033010>

***M21A - 6

Dušan Arsenović, **Jelena Dimitrijević**, Branislav Jelenković, Spectral method for numerical solution of the electric field envelope propagation equation, *Communications in nonlinear science and numerical simulation* **67**, 264-271 (2019).

DOI: 10.1016/j.cnsns.2018.07.027

URL: <https://doi.org/10.1016/j.cnsns.2018.07.027>

Radovi u vrhunskim međunarodnim časopisima (M21)

***M21 - 1

Jelena Dimitrijević, Dušan Arsenović, Branislav M. Jelenković, Perturbative solution for analysis of coherent processes in a double- Λ atomic scheme, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* **279** 20–23 (2012).

DOI: 10.1016/j.nimb.2011.10.056

URL: <http://www.sciencedirect.com/science/article/pii/S0168583X11010160>

***M21 – 2

J. Dimitrijević, D. Arsenović and B. M. Jelenković, Continuous reversal of Hanle resonances of a counter-propagating pulse and continuous-wave field, *Laser Physics* **24** 015201 (2014).

DOI: 10.1088/1054-660X/24/1/015201

URL: <http://iopscience.iop.org/1555-6611/24/1/015201/>

***M21 - 3

Jelena Dimitrijević, Dušan Arsenović, Branislav Jelenković, Nonlinear polarization rotation of Gaussian pulse propagating through an EIT medium, *Journal of Physics B: Atomic, Molecular and Optical Physics* **47** 045503 (2014).

DOI: 10.1088/0953-4075/47/4/045503

URL: <http://iopscience.iop.org/article/10.1088/0953-4075/47/4/045503/>

***M21 - 4

Jelena Dimitrijević, Dušan Arsenović, Branislav Jelenković, On the efficiency of 1D atom localization via EIT in a degenerate two-level atomic system, *Laser Physics Letters* **13** 045202 (2016).

DOI: 10.1088/1612-2011/13/4/045202

URL: <http://iopscience.iop.org/article/10.1088/1612-2011/13/4/045202/meta>

***M21 - 5

Jelena Dimitrijević, Dušan Arsenović and Branislav M Jelenković, Conservation laws for optical Bloch equations for the lambda scheme, *Journal of Physics A: Mathematical and Theoretical*, Volume **53**, Number 44 (2020).

DOI: 10.1088/1751-8121/abb275

URL: <https://iopscience.iop.org/article/10.1088/1751-8121/abb275>

Radovi u istaknutim međunarodnim časopisima (M22)

M22 - 1

J. Dimitrijević, D. Arsenović and B. M. Jelenković, Emergence of electromagnetically induced absorption in a perturbation solution of optical Bloch equations, *Laser physics* **20**, Issue 5 985-989 (2010).

DOI: 10.1134/S1054660X10090100

URL: <http://www.springerlink.com/content/9572n3k28114p413/>

***M22 - 2

D. Arsenović and **J. Dimitrijević**, Comparison of a double- Λ atomic scheme with single- and two-fold coupled transitions, *Physica Scripta* **T149** 014008 (2012).

DOI:10.1088/0031-8949/2012/T149/014008

URL: <http://iopscience.iop.org/1402-4896/2012/T149/014008/>

***M22 - 3

J. Dimitrijević and D. Arsenović, Simple analytical expressions for the analysis of the phase-dependent electromagnetically induced transparency in a double- Λ atomic scheme, *Physica Scripta* **T149** 014007 (2012).

DOI:10.1088/0031-8949/2012/T149/014007

URL: <http://iopscience.iop.org/1402-4896/2012/T149/014007/>

***M22 - 4

J. Dimitrijević, D. Arsenović and B. M. Jelenković, Pulse propagation dynamics in the presence of continuous-wave field, *Physica Scripta* **T157** 01401 (2013).

DOI:10.1088/0031-8949/2013/T157/014011

URL: <http://iopscience.iop.org/1402-4896/2013/T157/014011/>

Radovi u međunarodnim časopisima (M23)

M23 - 1

J. Dimitrijević, Z. Grujić, M. Mijailović, D. Arsenović, B. Panić and B.M. Jelenković, Effect of Laser Light Ellipticity on Hanle Electromagnetically Induced Absorption Amplitude and Line Width, *ACTA PHYSICA POLONICA A* **112**, Issue 5 841-845 (2007).URL:

<http://przyrbwn.icm.edu.pl/APP/ABSTR/112/a112-5-18.html>

M23 - 2

J. Dimitrijević, D. Arsenović and B. M. Jelenković, Perturbative Solution of Optical Bloch Equations for Analysis of Electromagnetically Induced Absorption, *ACTA PHYSICA POLONICA A* **116**, Issue 4 468-470 (2009).

URL: <http://przyrbwn.icm.edu.pl/APP/ABSTR/116/a116-4-6.html>

Predavanje po pozivu sa međunarodnog skupa štampano u izvodu (M32)

***M32-1

Jelena Dimitrijević, Dušan Arsenović and Branislav M. Jelenković, Atom localization via Zeeman coherences in degenerate two-level system, 18th International Conference&School "Foundations &Advances in Nonlinear Science " and 3rd International Symposium "Advances in Nonlinear Photonics", 27.09-01.10.2016, Minsk, Belarus.

Saopštenje sa međunarodnog skupa štampano u celini (M33)

M33 - 1

M. Mijailović, **J. Dimitrijević**, Z. Grujić, B. Panić, D. Arsenović, D. Pantelić and B. Jelenković, Absorption of Elliptically Polarized Light in Closed Transitions of Rb Vapor, SPIE Conference Proceedings 6604 (2007).

DOI: 10.1117/12.726882

URL: http://spie.org/x648.html?product_id=726882

Saopštenje sa međunarodnog skupa štampano u izvodu (M34)

M34 - 1

J. Dimitrijević, A. J. Krmpot, M. M. Mijailović, Z. D. Grujić, D. Arsenović, and B.M Jelenković, Electromagnetically induced transparencies in circularly polarized light in crossed magnetic field, Proceedings of the 9th European Conference on Atomic and Molecular Physics (ECAMP IX), May 6-11, 2007, Heraklion, Greece, pp Mo 4-9

M34 - 2

J. Krmpot, **J. Dimitrijević**, M. M. Mijailović, Z. D. Grujić, D. Arsenović, and B.M Jelenković, Intensity dependent line-widths of Hanle electromagnetically induced absorption to transverse magnetic fields, Proceedings of the 9th European Conference on Atomic and Molecular Physics (ECAMP IX), May 6-11, 2007, Heraklion, Greece, pp Mo 4-23

M34 - 3

J. Dimitrijević, D. Arsenović, B. M. Jelenković, Width of electromagnetically induced absorption in a Doppler broadened medium, Proceedings of the 14th Central European Workshop on Quantum Optics (CEWQO 2007), Palermo, June 1-5 2007. pp 36

***M34 - 4

Dušan Arsenović, **Jelena Dimitrijević** and Branislav M. Jelenković, Evolution of 1D Airy beam propagating through a Zeeman EIT atomic medium, COST Action Nanoscale Quantum Optics - Kickoff Workshop, Belgrade, Serbia, 9-10 April 2015.

***M34 - 5

J. Dimitrijević, D. Arsenović and B. M. Jelenković, One-dimensional sub-wavelength atom localization via Zeeman EIT in a degenerate two-level system, COST Action Nanoscale Quantum Optics - Kickoff Workshop, Belgrade, Serbia, 9-10 April 2015.

****M34-6

Jelena Dimitrijević, Dušan Arsenović, Branislav M. Jelenković, On the conservation laws of Optical Bloch equations for lambda scheme, 13th International Photonics Workshop, Kopaonik, Serbia, on March 08-12, 2020.

Uređivanje zbornika saopštenja međunarodnog naučnog skupa (M36)

***M36 - 1

NANOSCALE Quantum Optics Kick-off Workshop (2015 ; Beograd) Abstracts of Guest and Invited Lectures and Contributed Papers /Nanoscale Quantum Optics Kick-off Workshop, 9-10 April 2015 Belgrade, Serbia; ISBN 978-86-82441-42-7.

Saopštenje sa skupa nacionalnog značaja štampano u izvodu (M64)

*****M64-1**

Jelena Dimitrijević, Dušan Arsenović and Branislav M. Jelenković, Proposal for efficient one-dimensional atom localization via Zeeman coherences in degenerate two-level atomic system, 10th Photonics Workshop, Kopaonik, Serbia, 26.2.-2.3 2017.

Odbranjena doktorska disertacija (M71)

M71 - 1

J. Dimitrijević, On the phenomenon of electromagnetically induced absorption in Hanle configuration