

Табела. 9.6. Компетентност наставника

Име и презиме		Ненад Симоновић		
Звање		Научни саветник		
Ужа научна област		Физика атома и молекула		
Академска каријера	Година	Институција	Област	Ужа научна односно уметничка област
Избор у звање	13.07.2005.	Институт за физику Београд	физика	физика атома и молекула
Докторат	26.01.1993.	Физички факултет	физика	физика атома и молекула
Магистратура	27.02.1990.	Физички факултет	физика	физика атома и молекула
Диплома	27.05.1985.	ПМФ	физика	-
<b>Списак предмета које наставник држи на докторским студијама</b>				
Р.Б.	Ознака	Назив предмета		
1.	ФИЗДФАМ3	Теорија расејања		
2.	ФИЗДФАМ7	Специјална поглавља физике атома и молекула		
<b>Најзначајнији радови у складу са захтевима допунских услова стандарда за дато поље (минимално 10 не више од 20)</b>				
1.	A. Bunjac, D. B. Popović and N. S. Simonović, "On the selective multiphoton ionization of sodium by femtosecond laser pulses: A partial-wave analysis", Phys. Lett. A <b>394</b> , 127197 (2021)			M22
2.	M. Z. Milošević, A. Bunjac, D. B. Popović and N. S. Simonović, "Hyperfine splitting and lifetime of the positronium lowest level in a strong electric field", J. Phys. B: At. Mol. Opt. Phys. <b>54</b> , 035001 (2021)			M22
3.	N. S. Simonović and R. G. Nazmitdinov, "Effect of the magnetic field on electron density distributions in twoelectron quantum dots", J. Phys. A: Math. Theor. <b>52</b> , 435303 (2019)			M21
4.	A. Bunjac, D. B. Popović and N. S. Simonović, "Resonant dynamic Stark shift as a tool in strong-field quantum control: Calculation and application for selective multiphoton ionization of sodium", Physical Chemistry Chemical Physics <b>19</b> , 19829 (2017)			M21
5.	N. S. Simonović and R. G. Nazmitdinov, "Magnetic alteration of entanglement in two-electron quantum dots", Phys. Rev. A <b>92</b> , 052332 (2015)			M21
6.	M. Z. Milošević and N. S. Simonović, "Calculations of rates for strong-field ionization of alkali-metal atoms in the quasistatic regime", Phys. Rev. A <b>91</b> , 023424 (2015)			M21
7.	P. Grujić and N. Simonović, "Insights from the classical atom", Physics Today <b>65</b> , 40 (2012)			M21A
8.	A. Schüller, S. Wethekam, D. Blauth, H. Winter, F. Aigner, N. Simonović, B. Solleder, J. Burgdörfer and L. Wirtz, "Rumpling of LiF(001) surface from fast atom diffraction", Phys. Rev. A <b>82</b> 062902 (2010)			M21
9.	F. Aigner, N. Simonović, B. Solleder, L. Wirtz and J. Burgdörfer, "Suppression of decoherence in fast-atom diffraction at surfaces", Phys. Rev. Lett. <b>101</b> , 253201 (2008)			M21A
10.	N. S. Simonović and R. G. Nazmitdinov, "Hidden symmetries of two-electron quantum dots in a magnetic field", Phys. Rev. B <b>67</b> , 041305(R) (2003)			M21
11.	R. G. Nazmitdinov, N. S. Simonović and J. M. Rost, "Semiclassical analysis of a two-electron quantum dot in a magnetic field: Dimensional phenomena", Phys. Rev. B <b>65</b> , 155307 (2002)			M21
12.	N. S. Simonović, "Calculations of periodic orbits: The monodromy method and application to regularized systems", Chaos <b>9</b> (4), 854 (1999)			M21
13.	N. S. Simonović, "Classical chaos in the hydrogen atom near a metal surface", J. Phys. B: At. Mol. Opt. Phys. <b>30</b> , L613 (1997)			M21
14.	P. V. Grujić and N. S. Simonović, "Semiclassical calculations of intra-shell S resonances of doubly excited helium", J. Phys. B: At. Mol. Opt. Phys. <b>28</b> , 1159 (1995)			M21
15.	M. S. Dimitrijević, P. V. Grujić, and N. S. Simonović, "Small-energy three-body systems: V. Threshold laws when Wannier theory fails", J. Phys. B: At. Mol. Opt. Phys. <b>27</b> , 5717 (1994)			M21
<b>Збирни подаци научне активност наставника</b>				
Укупан број цитата, без ауоцитата		383 (Scopus)		
Укупан број радова са SCI (или SSCI) листе		50		
Тренутно учешће на пројектима		Домаћи: -	Међународни: 2	
Усавршавања		Постдок: Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany (1999-2002); Научне посете (1 година): Institute for Theoretical Physics, Vienna University of Technology, Austria (2007); (1-2 месеца): Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany (2004, 2012, 2018); Universidad de les Illes Balears, Palma de Mallorca, Spain (2011, 2013, 2015, 2017, 2018)		
Други подаци које сматрате релевантним		Добитник студентске награде за најбољи магистарски рад у Институту за физику у Београду (1990)		

**Table. 9.6** Teachers' competences

<b>Name and family name</b>		Nenad Simonović		
<b>Title</b>		Principal research fellow		
<b>Narrow scientific area</b>		Atomic and molecular physics		
<b>Academic career</b>	<b>Year</b>	<b>Institution</b>	<b>Area</b>	<b>Narrow scientific or art area</b>
Election to the title	13.07.2005.	Institute of Physics Belgrade	Physics	Atomic and molecular physics
PhD	26.01.1993.	Faculty of Physics, University of Belgrade	Physics	Atomic and molecular physics
Master degree	27.02.1990.	Faculty of Physics, University of Belgrade	Physics	Atomic and molecular physics
Diploma	27.05.1985.	Faculty of Sciences, University of Belgrade	Physics	-
<b>List of subjects the teacher is lecturing in doctoral studies</b>				
<b>No.</b>	<b>Mark</b>	<b>Subject name</b>		
1.	ФИЗДФАМ3	Scattering theory		
2.	ФИЗДФАМ7	Selected topics of atomic and molecular physics		
<b>The most significant papers, in compliance with the requirements of the additional requirements of the standard for the given field (minimum 10, not more than 20)</b>				
1.	A. Bunjac, D. B. Popović and N. S. Simonović, "On the selective multiphoton ionization of sodium by femtosecond laser pulses: A partial-wave analysis", <i>Phys. Lett. A</i> <b>394</b> , 127197 (2021)			M22
2.	M. Z. Milošević, A. Bunjac, D. B. Popović and N. S. Simonović, "Hyperfine splitting and lifetime of the positronium lowest level in a strong electric field", <i>J. Phys. B: At. Mol. Opt. Phys.</i> <b>54</b> , 035001 (2021)			M22
3.	N. S. Simonović and R. G. Nazmitdinov, "Effect of the magnetic field on electron density distributions in two-electron quantum dots", <i>J. Phys. A: Math. Theor.</i> <b>52</b> , 435303 (2019)			M21
4.	A. Bunjac, D. B. Popović and N. S. Simonović, "Resonant dynamic Stark shift as a tool in strong-field quantum control: Calculation and application for selective multiphoton ionization of sodium", <i>Physical Chemistry Chemical Physics</i> <b>19</b> , 19829 (2017)			M21
5.	N. S. Simonović and R. G. Nazmitdinov, "Magnetic alteration of entanglement in two-electron quantum dots", <i>Phys. Rev. A</i> <b>92</b> , 052332 (2015)			M21
6.	M. Z. Milošević and N. S. Simonović, "Calculations of rates for strong-field ionization of alkali-metal atoms in the quasistatic regime", <i>Phys. Rev. A</i> <b>91</b> , 023424 (2015)			M21
7.	P. Grujić and N. Simonović, "Insights from the classical atom", <i>Physics Today</i> <b>65</b> , 40 (2012)			M21A
8.	A. Schüller, S. Wethekam, D. Blauth, H. Winter, F. Aigner, N. Simonović, B. Solleder, J. Burgdörfer and L. Wirtz, "Rumpling of LiF(001) surface from fast atom diffraction", <i>Phys. Rev. A</i> <b>82</b> 062902 (2010)			M21
9.	F. Aigner, N. Simonović, B. Solleder, L. Wirtz and J. Burgdörfer, "Suppression of decoherence in fast-atom diffraction at surfaces", <i>Phys. Rev. Lett.</i> <b>101</b> , 253201 (2008)			M21A
10.	N. S. Simonović and R. G. Nazmitdinov, "Hidden symmetries of two-electron quantum dots in a magnetic field", <i>Phys. Rev. B</i> <b>67</b> , 041305(R) (2003)			M21
11.	R. G. Nazmitdinov, N. S. Simonović and J. M. Rost, "Semiclassical analysis of a two-electron quantum dot in a magnetic field: Dimensional phenomena", <i>Phys. Rev. B</i> <b>65</b> , 155307 (2002)			M21
12.	N. S. Simonović, "Calculations of periodic orbits: The monodromy method and application to regularized systems", <i>Chaos</i> <b>9</b> (4), 854 (1999)			M21
13.	N. S. Simonović, "Classical chaos in the hydrogen atom near a metal surface", <i>J. Phys. B: At. Mol. Opt. Phys.</i> <b>30</b> , L613 (1997)			M21
14.	P. V. Grujić and N. S. Simonović, "Semiclassical calculations of intra-shell S resonances of doubly excited helium", <i>J. Phys. B: At. Mol. Opt. Phys.</i> <b>28</b> , 1159 (1995)			M21
<b>Cumulative data of scientific activity of the teacher</b>				
Total number of citations, without self citations		383 (Scopus)		
Total number of papers on the SCI (or SSCI) list		50		
Current participation in projects		Domestic: -		International: 2
specialization		Postdoc: Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany (1999-2002); Scientific Visits: (1 year): Institute for Theoretical Physics, Vienna University of Technology, Austria (2007); (1-2 months): Max-Planck-Institute for the Physics of Complex Systems, Dresden, Germany (2004, 2012, 2018); Universidad de les Illes Balears, Palma de Mallorca, Spain (2011, 2013, 2015, 2017, 2018)		
Other information you consider to be important: Annual prize for the student work of the Institute of Physics Belgrade 1990				