

CURRICULUM VITAE

Nenad Stevanovic, PhD

Associate professor

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DATE OF THE BIRTH

06th of May, 1977.

PLACE OF BIRTH

Kragujevac, Serbia, (South Eastern Europe).

EDUCATION

BC -diploma in physics

Faculty of Science, University of Kragujevac, Serbia (1996-2000)

Master thesis: *Recoil factor of ^{214}Pb*

Faculty of Science, University of Kragujevac. Serbia (2004)

M70 3p

Supervisor: Dr Dragoslav Nikezic, Full professor on Faculty of Science, Kragujevac

Doctoral in Physics (PhD): *Calculation of stopping power by representing the projectile and target as an assembly of quantum oscillators*

Faculty of Science, University of Kragujevac. Serbia (2007)

M70 6p

Supervisor: Dr Dragoslav Nikezic, Full professor on Faculty of Science, Kragujevac

EMPLOYMENT

-2002. - 2005., Researcher at Faculty of Science, University of Kragujevac, on the project founded by Serbian Ministry of Science “Development of experimental and theoretical methods in radioecology”, N0 1425.

- 2006. -2010. Researcher at Faculty of Science, University of Kragujevac, on the project founded by Serbian Ministry of Science “Theoretical and experimental investigations in microdosimetry and radioecology” , N0 141023.

- 2011. - Researcher at Faculty of Science, University of Kragujevac, on the project founded by Serbian Ministry of Science and Technological Development "Experimental and theoretical investigations in radiation physics and radioecology", N0 171021.

-2011. Assistant professor, University of Kragujevac, Faculty of Science
- 2016. Associate professor, University of Kragujevac, Faculty of Science

TEACHING/ Current Courses:

Electromagnetism 1
Electromagnetism 2
Optics
Practical exercises from EM1
Practical exercises from EM and Optics
Introduction to Programming

LANGUAGES

_ **English:** speaking, writing and reading correctly

COMPUTING

_ **Operating systems:** Windows
_ **Monte Carlo simulation codes:** PENELOPE, SRIM
_ **Programming languages:** Fortran, C++
_ **Office package:** Word, Excel, PowerPoint, Outlook, Access
_ **Drawing and image processing:** Photoshop, Corel Draw
_ **Others (Mathematica, SigmaPlot, Origin ...)**

MENTOR BSc, MSc:

1. Марија Манчић: **Енергија Сунца** (2012.)
2. Јелена Вукадиновић: **Примена ласера у медици** (2012.)
3. Данијела Богавац: **Јонизација и ексцитација молекула воде у ћелијама услед д проласка алфа цестице** (2012.)
4. Дејан Симић: **Сунчеве пеге** (2012.)
5. Данијела Ђорђевић: **Месечеве мене** (2012.)
6. Ана Ракочевић: **Гама спектрометрија** (2012.)
7. Јадранка Јанковић: **Ефективна доза од природних радионуклида** (2012.)
8. Марина Стаменковић: **Интерференција светлости и њене примене** (2013)
9. Томислав Стојановић: **Електромагнетни таласи** (2013)
10. Милан Недељковић: **Одређивање концентрације радона и његових потомака у ваздуху гама спектрометријском методом** (2013.)
11. Олга Дукић: **Дифузија радона** (2013.)
12. Милена Радојковић: **Таласни феномени светлости** (2013.)
13. Наташа Милутиновић, **Оптички елементи и инструменти** (2013.)

14. Сања Петровић: **Параметри Јакобијевог модела** (2014.)
15. Слободан Вулић: **Теслин трансформатор** (2014.)
16. Милош Стеванић: **Моделовање радона и његових потомака у просторији Брауновим кретањем** (2015.)
17. Душан Љубенковић: **Одређивање карактеристика магнетика** (2016.)
18. Бојана Богићевић: **Гама спектрометријска анализа узорака угља** (2016.)
19. Млађан Рашковић, **Одређивање индекса преламања стакла**, дипломски рад, 05.07.2016.
20. Давор Чеман, **Дуга као оптичка појава**, дипломски рад, 28.09.2016.
21. Зоран Живановић, **Магнетна резонанца**, дипломски рад, 16.09. 2016
22. Ана Петковић, **Верификација Планковог закона зрачења**, завршни рад, 18.10. 2016
23. Александар Миловановић, **Нумеричко решавање проблема у физици**, завршни рад, 31.10.2016.
24. Срђан Станојевић, **Огледи из области једносмерних електричних струја**, завршни рад, 31.10.2016.

LIST OF PUBLICATIONS

Books

1. N. Stevanovic, V. Markovic and D. Nikezic. **Behavior of radon, thoron and their progeny in a room**, LAP Lambert Academic Publishing - ISBN-13: 978-3-659-68290-2, 2015 M11 10p

Book chapters

1. V. Markovic, N. Stevanovic, D. Krstic and D. Nikezic. **Beta and gamma dose assessment due to radon short lived progeny. *Handbook of Radon: Properties, Applications and Health, Nova Publishers- ISBN: 978-1-62100-177-5, 63-100, 2012.*** M13 6p
2. D. Nikezic, V.M. Markovic, N. Stevanovic, V. Urosevic, B. Milenkovic and J. Stajic. **Radon diffusion through the medium. *Handbook of Radon: Properties, Applications and Health, Nova Publishers- ISBN: 978-1-62100-177-5, 311-334, 2012.*** M14 4p
3. N. Stevanovic, B. Milenkovic, D. Nikezic. **Software for Determination of Track Parameters in Nuclear Track Detectors Etched in Reverse Direction. *Computer Source Code: Development, Analysis and Applications. ISBN: 978-1-61122-807-6, 89-108, 2011.*** M14 4p
4. N. Stevanovic, V.M. Markovic, D. Nikezic. **Influence of Ventilation Rate on Radon and Thoron Progeny Concentrations in a Room. *Ventilation: Types, Standards and Problems, Nova Publishers - ISBN: 978-1-61324-424-1. 111-134 , 2011.*** M14 4p

1. Papers printed in International Journal on ISI list

1.1. N. Stevanovic V.M. Markovic, D. Nikezic **Time dependence of ^{222}Rn , ^{220}Rn and their progenies' distributions in a diffusion chamber.** Nuclear Instruments and Methods A, Accepted for publications, 2017 .

ISSN 0168-9002 **IF= 1.200 M21 8p**

1.2 V.M. Markovic, D. Nikezic, N. Stevanovic **^{222}Rn and ^{220}Rn diffusion in two mediums.** Nuclear Instruments and Methods A , 857,16-23, 2017.

ISSN 0168-9002 **IF= 1.200 M21 8p**

1.3 Stevanovic, V.M. Markovic, D. Nikezic **New metod for determination of diffraction light pattern od arbitrary surfaces** Optics & Laser Technology. 90, 90-95 , 2017

. ISSN 0030-3992 **IF= 1.647 M22 5p**

1.4 N. Stevanovic, V.M. Markovic. **Diffraction pattern by rotated conical tracks in solid state nuclear track detectors** Optics & Laser Technology. 80, 204-208, 2016

. ISSN 0030-3992 **IF= 1.647 M22 5p**

1.5 A. V. Teodorović, D. M. Badjuk, N. Stevanović, R. Z. Pavlović, **Stabilization of long-chain intermediates in solution. Tridecyl radicals and cations,** Journal of Molecular Structure, 1083, 357-363, 2015. ISSN 0022-2860 **IF= 1.602 M23 3p**

1.6. B. Milenkovic, N. Stevanovic, D. Krstic, D. Nikezic, **Neutron detection by a CR-39 detector and analysis of proton tracks etched in the same and opposite directions,** Radiation Protection Dosimetry 161 (1-4):108-111, 2014 ISSN: 1742-3406

IF= 0.909 M22 5p

1.7 B. Milenkovic, N. Stevanovic, D. Nikezic, D. Kosutic. **Determination of a CR-39 detector response to neutrons from an Am-Be source** Applied Radiation and Isotopes, 90, 225-228, 2014. ISSN 0969-8043 **IF= 1.179 M21 8p**

1.8. V.M. Markovic, N. Stevanovic, D. Nikezic, Dž. F. Pucic, V. Urosevic , **Specific energy distribution within cytoplasm and nucleoplasm of a typical mammalian cell due to various beta radionuclides.** Journal of Radioanalytical and Nuclear Chemistry, 299(3), 1723-1730, 2014, ISSN: 0236-5731, DOI 10.1007/s10967-013-2874-3

IF=1.467 M21 8p

1.9. V.M. Markovic, D. Krstic, N. Stevanovic, D. Nikezic. **Photon albedo for water, concrete and iron at normal incidence and dependence on the thickness of reflecting material.** Nucl. Techn. & Rad. Prot. 28(1), 36-44, 2013 **IF= 1 M22 5p**

1.10. A V. Teodorovic, D. M. Badjuk, N. Stevanovic, R. Z. Pavlovic. **Stabilization of long-chain intermediates in solution. Octyl radicals and cations.** Journal of Molecular Structure 1040, 19-24, 2013. **IF=1.634 M23 3p**

1.11 V.M. Markovic, D. Krstic, D. Nikezic, N. Stevanovic. **Doses from radon progeny as a source of external beta and gamma radiation.** Radiat Environ Biophys, 51(4), 391-397, 2012. **IF=1.696 M22 5p**

- 1.12 N. Stevanovic, V.M. Markovic, M. Arsenijevic, D. Nikezic. **Influence of electron motion in target atom on stopping power for low-energetic ions.** Nucl. Techn. & Rad. Prot. 27(2), 113-116, 2012 **IF= 1.159 M22 5p**
- 1.13 B. Jovanović, D. Nikezić, N. Stevanović. **Applied mathematical modeling for calculating the probability of the cell killing per hit in the human lung.** Journal of Radioanalytical and Nuclear Chemistry, 290 (3), 607-613, 2011. **IF=1.52 M21 8p**
- 1.14.V. Markovic, N. Stevanovic and D. Nikezic. **Doses from beta radiation in sensitive layers of human lung and dose conversion factors due to $^{222}\text{Rn}/^{220}\text{Rn}$ progeny.** Radiation and Environmental Biophysics.50(3), 431-440, 2011. **IF=1.635 M22 5p**
- 1.15. B. Milenkovic, N. Stevanovic, D. Nikezic and M. Ivanovic. **Computer program Neutron_CR-39 for simulation of neutrons from an Am-Be source and calculation of proton track profiles.** Computer Phys Commun 182, 1536-1542, 2011 **IF= 1.958 M21 8p**
- 1.16. B. Milenković, D. Nikezić, N. Stevanović. **A simulation of neutron interaction from Am-Be source with the CR-39 detector.** Radiation Measurements 45, 1338-1341, 2010. **IF =0.973 M21 8p**
- 1.17. N. Stevanovic, V.M. Markovic, D. Nikezic. **Relationship between deposition and attachment rates in Jacobi room model.** Journal of Environmental Radioactivity, 101, 349–352, 2010. **IF =1.114 M23 3p**
- 1.18. N. Stevanovic V.M. Markovic, D. Nikezic. **Deposition rates of unattached and attached fractions in room at turbulent airflow and ventilation.** Journal of Environmental Radioactivity, 100, 585–589, 2009. **IF =1.114 M23 3p**
- 1.19. B. Milenković, N. Stevanović, D. Krstic, D. Nikezić. **Numerical solving of the track wall equation in LR115 detectors etched in direct and reverse directions.** Radiation Measurement, 44, 57–62, 2009. **IF=1.267, M21 8p**
- 1.20 N. Stevanovic V. Markovic, V. Urosevic and D. Nikezic. **Determination of parameters of Jacobi room model using the Brownian motion model.** Health Physics. 96(1): 48-54, 2009. **IF=0.902 M22 5p**
- 1.21. V. Markovic, N. Stevanovic and D. Nikezic. **Absorbed fractions for electrons and beta particles in sensitive regions of human respiratory tract.** Radiat. Environ. Biophys., 47, 139–145, 2008. **IF=1.787 M22 5p**
- 1.22. D. Nikezić, N. Stevanović, D. Kostić, S. Savović, K.C.C. Tse, K.N.Yu. **Solving the track wall equation by the finite difference method.** Radiation Measurement, 43, S76–S78, 2008. **IF=1.267, M21 8p**
- 1.23. D. Krstic, D. Nikezic, N. Stevanovic, D. Vucic, **Radioactivity of some domestic and imported building materials from South Eastern Europe,** Radiation Measurements, 42 (10), 1731-1736, 2007. **IF=1.054, M21 8p**
- 1.24. D. Nikezić and N. Stevanović. **Behavior of ^{220}Rn progeny in diffusion chamber.** Nuclear Instruments and Methods A, 570, 182-186, 2007. **IF=1.224, M21 8p**

- 1.25. D. Krstić, N. Stevanović, J. Milivojević and D. Nikezić. **Transfer of ^{137}Cs from soil to plants.** *Isotopes in Environmental Health Studies*, 43(1), 1-9, 2007. **IF=1.500, M22 5p**
- 1.26. D. Nikezić and N. Stevanović. **Room model with three modal distributions of attached ^{220}Rn progeny. Dose conversion factor for ^{220}Rn progeny.** *Radiation Protection Dosimetry*, 123, 95-102, 2007. **IF=0.528, M23 3p**
- 1.27. N. Stevanović and D. Nikezić. **Calculation of stopping power for partially stripped ion by using oscillator model.** *Eur. Phys. J. D* 42, 397–406, 2007. **IF=1.988, M22 5p**
- 1.28. D. Nikezić, B.M.F. Lau, N. Stevanović and K.N.Yu. **Absorbed Dose in Target Cell Nuclei and Dose Conversion Coefficient of Radon Progeny in the Human Lung,** *Journal of Environmental Radioactivity*, 89, 18-29, 2006. **IF=1.243, M22 5p**
- 1.29. N. Stevanović and D. Nikezić. **Stopping power. Projectile and target modeled as oscillators.** *Physics Letters A*, 340 (1-4), 290-298, 2005. **IF=1.55, M22 5p**
- 1.30. D. Nikezić and N. Stevanović. **Radon progeny behavior in diffusion chamber.** *Nuclear Instruments and Methods B*, 239 (4), 399-406, 2005. **IF=1.181, M21 8p**
- 1.31. D. Krstić, D. Nikezić, N. Stevanović i M. Jelić. **Vertical distribution of ^{137}Cs in soil.** *Applied Radiation and Isotopes.*, 61(6), 1487, 2004. **IF=1.000, M21 8p**
- 1.32. N. Stevanović, D. Nikezić. **Recoil factor of ^{214}Pb .** *Journal of Aerosol Science.*, 35(8), 1041, 2004. **IF=1.861, R51 8p**
- 1.33. D. Nikezić, N. Stevanović. **Room model with three modal distribution of attached radon progeny.** *Health Physics.*, 87(4), 405-409, 2004. **IF=0.796, R51 8p**
- 1.34. D. Nikezić and N. Stevanović. **Influence of variability of ^{214}Pb recoil factor on lung dose.** *Radiation Protection Dosimetry.*, 109, 197-199, 2004. **IF=0.680, R52 5p**

2. Papers on the international and national conferences

- 2.1. D. Krstić, D. Nikezić, V. Ljubenov i N. Stevanović. **Računanje efektivne doze u plućama i gonadama od ^{137}Cs u tlu.** *Zbornik radova, XXII Simpozijum Jugoslovenskog Društva za Zaštitu od Zračenja*, 2003. **M63**
- 2.2. D. Krstić, D. Nikezić, N. Stevanović i M. Jelić. **Vertikalna raspodela ^{137}Cs u tlu.** *Zbornik radova, XXII Simpozijum JDZZ*, 181-184. 2003. **M63**
- 2.3. N. Stevanović i D. Nikezić. **Zaustavna moć alfa čestica u CR-39 detektoru.** *Zbornik radova, XXII Simpozijum JDZZ*, 2003. **M63**
- 2.4. N. Stevanović, D. Nikezić, D. Krstić, D. Kostić, M.S.Kovačević. **Faktor uzmarka radonovih potomaka.** *Zbornik radova, XXIII Simpozijum DZZSCG*, 327-331, 2005. ISBN: 86-7306-075-3. **M63**

- 2.5. B. Milenkovic, N. Stevanovic, D. Krstic, D. Nikezic. **Numericko resavanje jednacine zida traga u LR115 detektoru nagrizanom u direktnom i suprotnom smeru.** *Zbornik radova ETRAN*, 2008. ISBN: 978-86-80509-63-1 **M63**
- 2.6. D. Krstić, D. Nikezić, N. Stevanović, D. Vučić. **Radioaktivnost nekih uvoznih gradjevinskih materijala.** *Zbornik radova, XXIII Simpozijum DZZSCG*, 309-311, 2005. ISBN: 86-7306-075-3. **M63**
- 2.7. B. Milenkovic, D. Nikezic, N. Stevanovic. **Simulacija odgovora CR-39 detektora na ozracivanje neutronima iz Am-Be izvora.** *Zbornik radova, XXV Simpozijum DZZSCG*, 274-278, 2009. ISBN: 978-86-7306-112-2. **M63**
- 2.8. N. Stevanović, V.M. Markovic, D. Nikezić. **Parametri Jakobijevog modela u prostoriji pri turbulentnom kretanju vazduha.** *Zbornik radova, XXV Simpozijum DZZSCG*, 345-349, 2009. ISBN: 978-86-7306-112-2. **M63**
- 2.9. B. Milenković, N. Stevanović, V Marković, D Nikezić. **Efikasnost detekcije protona nastalih u CR-39 detektoru ozračenom neutronima iz Am-Be izvora.** *ETRAN*, 2010. **M63**
- 2.10. N. Stevanovic, V. Markovic, D Nikezic, B. Milenkovic, J. Stajic. **Korekcija ljuske za zaustavnu moc za niskoenergetske jone.** *Zbornik radova, XXVI Simpozijum DZZSCG*, 14-17, 2011. ISBN: 978-86-7306-105-4. **M63**
- 2.11. B. Milenkovic, D Nikezic, N. Stevanovic. **Korekcija ljuske za zaustavnu moc za niskoenergetske jone.** *Zbornik radova, XXVI Simpozijum DZZSCG*, 306-310, 2011. ISBN: 978-86-7306-105-4. **M63**
- 2.12. V. Markovic, N. Stevanovic, D Nikezic. **Raspodela specificne energije beta zracenja unutar celije.** *Zbornik radova, XXVI Simpozijum DZZSCG*, 224-227, 2011. ISBN: 978-86-7306-105-4. **M63**
- 2.13. J. Zivkovic Radovanovic, N. Stevanovic V. M. Markovic, D. Nikezic, B. Milenkovic. **Simulacija niskoenergetskih protona kroz celije.** *Zbornik radova, XXVII Simpozijum Društva za Zaštitu od Zracenja Srbije i Crne Gore, Vrnjacka Banja, Srbija*, pp 263-266, ISBN: 978-86-7306-115-3, 2013. **M63**
- 2.14. D. Bogavac, N. Stevanovic, V.M. Markovic, D. Nikezic, J. Stajic. **Jonizacija i ekscitacija molekula vode u celijama usled prolaska alfa cestica.** *Zbornik radova, XXVII Simpozijum Društva za Zaštitu od Zracenja Srbije i Crne Gore, Vrnjacka Banja, Srbija*, pp 241-245, ISBN: 978-86-7306-115-3, 2013. **M63**
- 2.15. N. Stevanovic, V.M. Markovic, D. Spasic. **Difrakcione slike na konusnim i sfernim objektima.** *Zbornik radova, XXVIII Simpozijum Društva za Zaštitu od Zracenja Srbije i Crne Gore, Vrnjacka Banja, Srbija*, pp 602-607, ISBN: 978-86-7306-135-1, 2015. **M63**