Univerzitet Crne Gore
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Broj: _____ 206/2

Datum: _____ 18 02 2021
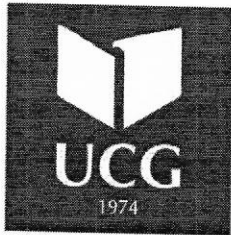
UNIVERZITET CRNE GORE

-Senatu-

-Centru za doktorske studije-

U prilogu akta dostavljamo Odluku sa LVIII sjednice Vijeće PMF-a od 16.02.2021. godine o imenovanju mentora doktorandu mr Vladimiru Ivanoviću.

DEKAN

Prof. dr Predrag Miranović

Univerzitet Crne Gore
Prirodno-matematički fakultet

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Broj: _01-061_

Datum: _18. 02. 2021.g_

Na osnovu člana 64 Statuta Univerziteta Crne Gore, a u vezi sa članom 29 I 30 Pravila doktorskih studija Univerziteta Crne Gore, Vijeće Prirodno-matematičkog fakulteta na LVIII sjednici održanoj 16.02.2021.godine, donijelo je

ODLUKU

I

Predlažemo Senatu i Centru za doktorske studije Univerziteta Crne Gore **prof. dr Svjetlanu Terzić, redovnu profesoricu Prirodno-matematičkog fakulteta Univerziteta Crne Gore za mentora** studentu doktorskih studija, studijski program Matematika, mr Vladimiru Ivanoviću.

II

Dokumentacija o ispunjenosti uslova za imenovanje mentora i Potvrda o studiranju mr Vladimira Ivanovića predstavlja sastavni dio Odluke.

III

Odluka se dostavlja Senatu UCG i Centru za doktorske studije na dalje postupanje

D E K A N

Prof. dr Predrag Miranović

UNIVERZITET CRNE GORE
Obrazac M: Imenovanje mentora

UCG

MENTORSTVO

Kandidat: Ime i prezime			Vladimir Ivanović
PREDLOŽENI MENTOR/I			
	Titula, ime i prezime	Ustanova i država	Naučna oblast
Prvi mentor	Profesor Svjetlana Terzć	Prirodno-matematički fakultet, Univerzitet Crne Gore, Crna Gora	Algebarska topologija, Diferencijalna geometrija
Drugi mentor			
Sjednica Vijeća organizacione jedinice na kojoj je izvršeno predlaganje mentora			16. 02. 2021.g.

KOMPETENCIJE MENTORA
(pet objavljenih radova u relevantnim časopisima)

Prvi mentor	1	V. M. Buchstaber, S. Terzić, The foundations of (2n,k)-manifolds, Matematicheskii Sbornik, 2019, Vol. 210, No 4, 41-86
	2	V. M. Buchstaber and S. Terzić, Toric Topology of the Comlex Grassmann Manifolds, Moscow Mathematical Journal, 2019, Vol. 19, Iss. 3, 397-463
	3	V. M. Buchstaber and S.Terzić, Toric genera of homogeneous spaces and their fibrations, International Mathematics Research Notices, 2013, Vol. 2013, Iss. 6, 1324-1403.
	4	J. Grbić and S. Terzić , The integral Pontryagin homology of the based loop space on a flag manifold, Osaka Journal of Mathematics , 2010, Vol. 47, no 2, $439-460$.
	5	D. Kotschick and S. Terzić, Chern numbers and the geometry of partial flag manifolds, Commentarii Mathematici Helvetici, 2009 Vol. 84, no.3, $587-616$.
Drugi mentor	1	
	2	
	3	
	4	
	5	

PODACI O MAGISTRANDIMA I DOKTORANDIMA

	Broj magistranada		Broj doktoranada	
	trenutno	ukupno	Trenutno	ukupno
Prvi mentor	-	-	-	-
Drugi mentor				

Datum i ovjera (pečat i potpis odgovorne osobe)

U Podgorici
05. 02. 2021.

DEKAN

UNIVERZITET CRNE GORE

Prirodno-matematički fakultet
Vijeću Prirodno-matematičkog fakulteta

ZAHTJEV ZA IMENOVANJE MENTORA NA DOKTORSKIM STUDIJAMA

Uvaženi članovi Vijeća,

Obraćam vam se ovim zahtjevom povodom imenovanja mentora na doktorskim studijama na Prirodno-matematičkom fakultetu Univerziteta Crne Gore, smjer Matematika.

Za mentora predlažem prof. dr Svjetlanu Terzić, redovnu profesoricu na Univerzitetu Crne Gore.

04.02.2021.

S poštovanjem
Student doktorskih studija

mr Vladimir Ivanović

Saglasnost mentora

prof. dr Svjetlana Terzić

Na osnovu člana 75 stav 2 Zakona o visokom obrazovanju (Sl.list RCG br. 60/03) i člana 18 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore, na sjednici održanoj 25.03.2010. godine, donio je

ODLUKU
O IZBORU U ZVANJE

Dr SVJETLANA TERZIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmete: Uvod u geometriju i Algebarska topologija na osnovnom studijskom programu Matematika i Uvog u diferencijalnu geometriju na osnovnom studijskom programu Matematika i računarske nauke na **Prirodno-matematičkom fakultetu**.

REKTOR

Prof.dr Predrag Miranović

<u>**Biografija: Svjetlana Terzić**</u>

Datum i mjesto rodjenja: 17.09.1970, Podgorica, Crna Gora;

Državljanstvo: Crna Gora;

Pol: ženski

Oblasti istraživanja: Algebarska topologija, Diferencijalna geometrija

Akademski obrazovanje:

- Diplomirani matematičar – Univerzitet Crne Gore, 09. 1993., srednja ocjena 9,96 od ukupno 10
- Magistar matematike – Univerzitet u Beogradu, 06. 1996.,srednja ocjena 10 od ukupno 10
  Magistarska teza "Karakteristične klase hiperkompleksnih vektorskih raslojenja", mentor Prof. Novica Blažić

- Doktor matematike – Moskovski državni univerzitet "M. V. Lomonosov", 02. 1996 – 07. 1998,
srednja ocjena 5 od ukupno 5
  Doktorska disertacija "Realne kohomologije i karakteristične klase uopštenih simetričnih prostora ", menotor Prof. Yuri P. Solovyov, 06. 1998.
- Postdoktorska pozicija, 08. 2000- 08. 2002, Ludwig Maximillians University, Minhen, Njemačka

Akademska zvanja:

- 1993 -2000 – saradnik u nastavi, Univerzitet Crne Gore
- 2000-2005 - Docent, Univerzitet Crne Gore
- 2005-2010 – Vanredni profesor, Univerzitet Crne Gore
- 2010- Redovni profesor, Univerzitet Crne Gore
- 2011 –Vanredni član Crnogorske akademije nauka i umjetnosti
- 2018 – Redovni član Crnogorske akademije nauka i umjetnosti

Odabrana predavanja po pozivu:

1. Contemporary Geometry and Related Topics, Belgrade, Serbia and Montenegro, May 2002;
2. Kolmogorov and Contemporary Mathematics, Moscow, Russia, Jun 2003;
3. Mathematical, Theoretical and Phenomenological Challenges Beyond Standard Models, Vrnjačka Banja, Serbia and Montenegro, September 2003;
4. Algebraic models for topological spaces and fibrations, Tbilisi, Georgia, September 2004
5. XI congress of mathematicians of Serbia and Montenegro, Petrovac, Serbia and Montenegro , September 2004, <u>plenary talk</u>;
6. Topology, analysis and applications to mathematical physics, Moscow, Russia, February 2005;
7. Contemporary Geometry and Related Topics, Belgrade, Serbia and Montenegro, July 2005;
8. Toric Topology, Osaka, Japan, May, 2006;
9. Differential Equations and Topology, in commemoration of the 100th anniversary of L.S. Pontryagin, Moscow, Russia, Jun 2008;
10. New horizons in toric topology, Manchster, UK. July 2008;
11. Geometry, Dynamics, Integrable systems, Belgrade, Serbia, September 2008;
12. Multidisciplinarnost i jedinstvo savremene nauke, University of East Sarajevo, Pale, May 2009;
13. Geometry, topology and algebra, dedicated to 120th anniversary of Boris Delone, Steklov Mathematical Institute, Russian Academy of Science, Moscow, Russia, August , 2010;
14. Geometry, Dynamics, Integrable Systems, Belgrade, Serbia, September, 2010;
15. Toric topology and automorphic functions, Khabarovsk, Far eastern branch of Russian academy of science, September, 2011
16. International topological conference "Alexandroff readings, Moscow state university "M. V. Lomonosov", May 2012, <u>plenary talk</u>
17. The second mathematical conference of the Republic of Srpska, Trebinje, Jun, 2012, <u>plenary talk</u>
18. Geometric structure on manifolds and their applications, Castle Rauischholzhausen, Marburg, July, 2012.
19. XVII geometrical seminar, Zlatibor, Serbia, August, 2012.

21. International conference "Algebraic topology and Abelian function" in honor of Victor Buchstaber on occasion of his 70th birthday, Moscow, June, 2013.
22. Geometry and analysis of metric structures, Sobolov institute of mathematics, Russian Academy of Sciences, Novosibirsk, December, 2013.
23. Topology of torus actions and its applications to geometry, Satelite conference of ICM, Daejeon, Korea, August, 2014.
24. International conference "Torus actions in geometry, topology and applications, Skolkovo, Moscow, February, 2015.
25. . The fifth mathematical conference of the Republic of Srpska, Trebinje, Jun 2015.
26. International Chinese-Russian conference " Torus actions: topology, geometry and number theory, Beijing, China, October, 2015.
27. Aspects of Homotopy Theory, Southampton, UK, December 2015.
28. XIX Geometrical Seminar, Zlatibor, Serbia, September 2016
29. Mini conference celebrating of 30 years of CGTA seminar, Belgrade, Serbia, September 2016, plenary talk
30. The Princeton-Rider Workshop on the Homotopy Theory of Polyhedral products, Princeton and Rider University, Princeton, USA, May-June, 2017.
31. Symposium on mathematics and it applications, Belgrade, Serbia, November 2017.
32. International conference "Algebraic topology, Combinatorics and Mathematical Physics" in honor of Victor Buchstaber on occasion of his 75th birthday, Moscow, May, 2018.

33. International conference "Modern algebra and Analysis and their Applications, Academy of Sciences and Arts of Bosnia and Herzegovina, Sarajevo, September, 2018.

34. Susret matematičara Srbije i Crne Gore, Budva, Oktobar, 2019.

35. Toric topology 2019 in Okayama, Okayamo, Japan, Novembar, 2019.

36. Deseti simpozijum Matematika i primene, Beograd, Decembar, 2019

37. Workshop on Torus actions in Topology, Fields Institute, Toronto, Kanada, May, 2020, via zoom
38. Workshop on toric topology, geometry and related subjects, Moscow, November , 2020, via zoom

Predavanja na seminarima:

- September 2002., Erwin-Schroedinger institute, Vienna, Austria, talk in the framework of the program Aspects of foliation theory;
- April 2005, SANU, Belgrade, talk at the na Mathematical Colloquium SANU;
- Jun 2006, Osaka City University, Japan, talk at the Topology seminar;
- Jul 2006, University of Aberdeen, UK, talk at the Topology seminar
- January 2007, University of Oxford, UK, talk at the Topology seminar, mini course for phd topology students on the rational minimal model theory;
- February 2007, University of Manchester, UK, talk at the Topology seminar;
- November 2007, Mathematical Institute SANU, Belgrade, talk at the Geometry seminar;
- April 2009, MFO (Oberwolfach), Germany , talk at the "Workshop on homotopy theory of function spaces and related topics";
- September 2009, Faculty of Mechanics and Mathematics, MSU "M. V. Lomonosov", Moscow, Russia, talk at the seminar for Geometry, topology and mathematical physics, chaired by V. M. Buchstaber and   S. P. Novikova , talk at the Chair seminar of   A. T. Fomenko;
- Mart 2010, Laboratori J. A. Dieudonne, Universite de Nica Sophia Antipolis, France, talk at the seminar for Algebra, topology and geometry;
- Jun 2010, International School for Advanced Studies SISSA, Trieste, Italy, talk at the seminar for Geometry and Physics chaired by B. A. Dubrovin;
- December 2011, SANU, talk at the seminar Mathematical methods of mechanics.
- September 2013, University of Southampton, talk at Topology seminar
- December 2013, SANU, talk at the seminar Mathematical methods of mechanics
- October 2016, Faculty of Mechanics and Mathematics, MSU "M. V. Lomonosov", Moscow, Russia, talk at the seminar for Geometry, topology and mathematical physics, chaired by V. M. Buchstaber and S. P. Novikov
- May 2017, University of Southampton, UK; talk at Topology seminar
- December 2018, University of Southampton, UK, talk at Topology seminar

- November 2019, talk at One day topology seminar in Osaka, Osaka, Japan
- Oktobar 2020, University of Southampton, talk at Topology seminar, via zoom
- Novembar 2020, Princenton University, talk at International Polyhedral Product seminar, via zoom

Odabrane nagrade i grantovi:

1. Nagrada 19. decembar za najboljeg studenta u generaciji 1991.
2. Plaketa Univerziteta Crne Gore za najboljeg diplomiranog studenta generacije, 1993.
3. Nagrada Crnogorske akademije nauka i umjetnosti za naučna dostignuća, 2003.
4. Grant Evropskog udruženja matematičara za učešće na IV Evropskom kongresu matematičara, Štokholm, Švedska, 2004
5. WUS-Austria 2-nedjeljna posjeta Jelene Grbić Podgorici, Crna Gora, April, 2007.
6. Oxford Colleges hospitality scheme, 1-mjesečna posjeta Univerzitetu u Oxford-u , Januar, 2007.

7. Grant Evropskog udruženja matematičara za učešće na V Evropskom kongresu matematičara, Amsterdam, Holandija, 2008.
8. Grant of the Medjunarodne matematičke unije za učešće na Svjetskom kongresu matematičara, Hyderabad, Indija, 2010.
9. Bilateralni projekat sa Univerzitetom u Ljubljani, Slovenija, 2012-2013.
10. Glavni istraživač na projekstu Ministarstva nauke Crne Gore, 2012-2015.
11. Glavni istraživač na medjunarodnom projektu instituta SISSA, Trst, 2008-2010.
12. Spoljni istraživač na projektu 174020 Ministarstva nauke Srbije, 2011-2015.
13. Istraživački grant London Mathematical Society sa Jelenom Grbić, 2-nedjeljna posjeta Univerzitetu u Southampton-u, 2013.
14. Grant za istraživanje u parovima sa Jelenom Grbić, 3-nedjeljna posjeta Matematičkom institute Oberwolfach, 2014.
15. Grant Medjunarodne matematičke unije za učešće na Svjetskom matematičkom kongresu Rio de Janeiro, Brazil, 2018.

Neke naučno istraživačke posjete:

Mehaniko-matematički fakultet, Moskovski državni univerzitet,Matematički institut Steklova, Ruska akademija nauka -- 1999, 2003, 2005, 2006, 2008, 2009, 2012, 2013, 2015, 2016, 2018; SISSA Trst 2010; Mathematički Fakultet, Ljubljana, 2012, 2013; Matematički fakultet, Univerzitet u Southampton-u, 2013, 2015, 2017; Univerzitet u Aberdeen-u, 2006; Univerzitet u Mančester-u, 2007 . Fildsov Institu za matematiku, Toronto, Kanada, 2020.

Nastava i mentorstvo:

Predavala kurseve na različitim nivoima studija na Prirodno-matematičkom fakultetu Univerziteta Crne Gore: Uvod u geometriju, Uvod u diferencijanu geoemtriju, Algebarska topologija, Diferencijalna geomatrija na mnogostrukostima, Geometrija, Napredna algebra.

Mentor za preko 20 specijalističkih radova i 4 magistraske teze, komentor doktorske disertacije na Matematičkom fakultetu, Univerzitet Nica Sophia Antipolis, član komisija za odbranu doktorskih disertacija na Univerzitetu u Beogradu , Univerzitetu u Istočnom Sarajevu, Univerzitetu u Southmpton-u, Univerzitetu Crne Gore.

Ostalo:

- Urednik:
  1. Sarajevo Journal of Mathematics, izdaje Akademija nauka i umjetnosti Bosne i Hercegovine
  2. Matematički Vesnik, izdaje Društvo matematičara Srbije

- Recenzent za časopise : Publication de l'Institute Mathematique, Contemporary Mathematics, Proceedings of the Steklov Institute of Mathematics, Annali di Matematica Pura ed Applicata, Mathematica Slovaka, Mathematische Zeitschrift, Sbornik:Mathematics, Algebraic and Geometric Topology, Homology, Homotopy and Applications, Morrocan Journal of Pure and Applied Analysis

- Prodekan za medjunarodnu sardanju na Prirodno-matematičkom fakultetu Univerziteta Crne Gore, 2004 – 2007.

Publication list for Svjetlana Terzić

1. Svjetlana Terzić, *Real cohomology and Pontryagin characteristic classes of generalised symmetric spaces*, (Russian) Vsesojuzni Institut Nauchnoj i Tehnicheskoj Informacii, VINITI, V-1034, Moscow, 1998, 1-94.

2. Svjetlana Terzić, *Generalised symmetric spaces and their topology*, (Russian) Mathematica Montisnigri 11 (1999), 139-150.

3. Svjetlana Terzić, *Characteristic classes of hypercomplex vector bundles*, Montenegrin Academy of Sciences and Arts, Proceeding of the Section of Natural Sciences, 13 (2000)

4. Svjetlana Terzić, *Cohomology with real coefficients of generalized symmetric spaces*, (Russian) Fundamentalnaya i Prikladnaya Matematika, Vol. 7, (2001), no. 1, 131-157.

5. Svjetlana Terzić, *Pontryagin classes of generalized symmetric spaces*, (Russian) Matematicheskie Zametki, Vol. 69, (2001), no.4, 613-621; English transl. in Mathematical Notes, Vol. 69, (2001), no. 4, 559-566.

6. D. Kotschick and S. Terzić, *On formality of generalised symmetric spaces*, Mathematical Proceedings of Cambridge Philosophical Society, 134 (2003), 491-505.

7. S. Terzić, *Rational homotopy groups of generalised symmetric spaces*, Mathematische Zeitschrift, 243 (2003), 491-523.

8. S. Terzić, *On rational topology of four manifolds*, Proceeding of the Workshop Contemporary Geometry and Related Topics, World Scientific 2004, 375-389.

9. Svjetlana Terzić, *Rational topology of gauge groups and of spaces of connections*, Compositio Mathematicae, 141 (2005), no.1, 262-270.

10. Svjetlana Terzić, *On geometric formality*, Proceedings of the Workshop devoted to 25th anniversary of the Faculty of Natural Sciences and Mathematics, University of Montenegro, Contemporary mathematics, physics and biology, (2006), 208-215.

11. Victor M. Buchstaber and Svjetlana Terzić, *Equivariant complex structures on homogeneous spaces and their cobordism classes*, Advances in the Mathematical Sciences, Geometry, topology and mathematical physics, Translations 2, 224 (2008), 27 – 57, American Mathematical Society

12. D. Kotschick and S. Terzić, *Chern numbers and the geometry of partial flag manifolds*, Commentarii Mathematici Helvetici, 84 (2009), no.3, 587 – 616.

13. Jelena Grbić and Svjetlana Terzić, *The integral Pontryagin homology of the based loop space on a flag manifold*, Osaka Journal of Mathematics 47 (2010), no 2, 439 – 460.

14. Svjetlana Terzić, *Integral loop homology of complete flag manifolds* (joint with Jelena Grbić), Oberwolfach reports 19/2009, Homotopy Theory of Function Spaces and Related Topics, European Mathematical Society Publishing House, 1038 – 1040.

15. D. Kotschick and S. Terzić, *Geometric formality of homogeneous spaces and of biquotients*, Pacific Journal of Mathematics, 249 (2011), no 1, 157 – 176.

16. Svjetlana Terzić, *On real cohomology generators of compact homogeneous spaces*, Sarajevo Journal of Mathematics, Vol. 7 (20) (2011), No. 2, 277 – 287 .

17. Svjetlana Terzić, *Toric genera on homogeneous spaces and related problems*, Proceedings of the international conference "Toric topology and automorphic functions", Far-Eastern Branch of the Russian Academy of Sciences, Pacific National University, 2011, 97 – 104.

18. Jelena Grbić and Svjetlana Terzić, *The integral homology ring of the based loop space on some generalised symmetric spaces*, Moscow Mathematical Journal, Volume 2012, Issue 4, Oct. – Dec. 2012, pp 771-786.

19. Victor M. Buchstaber and Svjetlana Terzić, *Toric genera of homogeneous spaces and their fibrations*, International Mathematics Research Notices, Vol. 2013, 1324-1403.

20. Svjetlana Terzić, *On cohomology ring of partial flag manifolds*, Proceedings of the Second Mathematical Conference of the Republic of Srpska, 2013, 11 - 17. (ISBN 978 – 99938 – 47 – 52 – 6)

21. Svjetlana Terzić, *Rational minimal model theory on compact homogeneous spaces*, Scripta Scientiarum Naturalium, Proceedings of the Faculty of Natural Sciences and Mathematics, University of Montenegro, Vol. 3. 2013, 3 – 17. (ISSN 1880 – 8356)

22. Victor M. Buchstaber and Svjetlana Terzić, *"(2n,k)-manifolds and applications"*, Report No 27/2014, Mathematisches Forschung Institut (25–31 May 2014), Oberwolfach, Germany, 2014, 11–14.

23. Victor M. Buchstaber and Svjetlana Terzić, *Topology and Geometry of the Canonical Action of T^4 on the complex Grassmannian $G_{4,2}$ and the complex projective space CP^5*, Moscow Mathematical Journal, Vol. 16, Issue 2 (2016), 237-273.

24. Svjetlana Terzić, *Geometric formality of rationally elliptic manifolds in small dimensions*, Glasnik of the Section of Natural Sciences, Montenegrin Academy of Sciences and Arts, 20 (2014), 131-145.

25. Svjetlana Terzić, *The rational homology ring of the based loop space of the gauge group and the spaces of connections on a four manifold*, Fundamentalnaya i Prikladnaya matematika (in Russian), Vol. 21, No.6, (2016) 206-216.

26. Svjetlana Terzić, *On geometric formality of rationally elliptic manifolds in dimensions 6 and 7*, Publications de l'Institute Mathematique (Belgrade), Issue 103 (117), (2018), 211-222.

27. Svjetlana Terzić, *Rational Pontrjagin homology ring of the based loop space on some homogeneous spaces*, Sarajevo Journal of Mathematics, Vol. 14, No. 2, (2018), 275-285.

28. Victor M. Buchstaber and Svjetlana Terzić, *The foundations of (2n, k)-manifolds*, Sbornik Mathematics, 210:4 (2019), 41 − 86.

29. Victor M. Buchstaber and Svietlana Terzić, *Toric topology of the complex Grassmann manifolds,* Moscow Mathematical Journal, 19:3 (2019), 397-463.

30. Dragana Borović and Svjetlana Terzić, *On rational Pontryagin homology ring of the based loop space on a four-manifold,* Matematički Vesnik, Vol 71, Iss 1-2, (2019), 90-103.