

Univerzitet Crne Gore
Prirodno-matematički fakultet

Džordža Vašingtona b.b.
1000 Podgorica, Crna Gora

tel: +382 (0)20 245 204

fax: +382 (0)20 245 204

www.pmf.ac.me

Broj: 5761

Datum: 12.12.2019

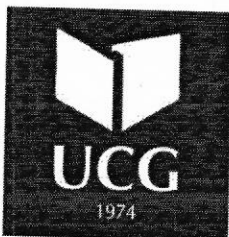
UNIVERZITET CRNE GORE

-Centru za doktorske studije-

U prilogu akta dostavljamo Predlog Odluke Vijeća Prirodno-matematičkog fakulteta sa XL sjednice održane 09.12.2019. godine o imenovanju mentora i komentora studentu doktorskih studija Božidaru Šoškiću, na dalje postupanje.

DEKAN
Prof. dr Predrag Miranović





**Univerzitet Crne Gore
Prirodno-matematički fakultet**

Džordža Vašingtona b.b.
1000 Podgorica, Crna Gora

tel: +382 (0)20 245 204

fax: +382 (0)20 245 204

www.pmf.ac.me

Broj: 542

Datum: 11. 12. 2019

Na osnovu člana 64 Statuta Univerziteta Crne Gore, a u vezi sa članom 29 stav 1 Pravila studiranja na doktorskim studijama Univerziteta Crne Gore, Vijeće Prirodno-matematičkog fakulteta na XL sjednici održanoj dana 00.12.2019.godine, donijelo je sljedeću

ODLUKU

I

Predlažemo Centru za doktorske studije Univerziteta Crne Gore prof. dr Predraga Miranovića za mentora i dr Željka Šljivančanina za komentora studentu doktorskih studija - studijski program Fizika –Božidaru Šoškiću.

II

Dokumentacija o ispunjenosti uslova za imenovanje mentora i komentora i Potvrda o studiranju Božidara Šoškića predstavlja sastavni dio odluke.

DEKAN

Predrag Miranović
Prof. dr Predrag Miranović



MENTORSTVO

Kandidat: Ime i prezime		Božidar Šoškić		
PREDLOŽENI MENTOR/I				
	Titula, ime i prezime	Ustanova i država	Naučna oblast	
Prvi mentor	Prof dr Predrag Miranović	Prirodno-matematički fakultet, Univerzitet Crne Gore	Fizika čvrstog stanja	
Drugi mentor	Dr Željko Šljivančanin	Institut za nuklearne nauke Vinča, Univerzitet u Beogradu	Fizika čvrstog stanja	
Sjednica Vijeća organizacione jedinice na kojoj je izvršeno predlaganje mentora			9. Decembar 2019	
KOMPETENCIJE MENTORA (pet objavljenih radova u relevantnim časopisima)				
Prvi mentor	1 Z Popović, P Miranović, R Zikic, Physica Status Solidi (b) 255 (6), 1700554 (2018), Online ISSN: 1521-3951			
	2 Z Popović, P Miranović, Progress of Theoretical and Experimental Physics 2018 (4), 043101 (2018), Online ISSN 2050-3911			
	3 K M. Suzuki, K Inoue, P Miranović, M Ichioka, K Machida, Journal of the Physical Society of Japan 79 (1), 013702 (2009), Online ISSN 1347-4073			
	4 N Nakai, P Miranović, M Ichioka, K Machida, Physical Review B 73 (17), 172501 (2006), Online ISSN 1347-4073, Online ISSN 2469-9969			
	5 P Miranović, M Ichioka, K Machida, N Nakai, Journal of Physics: Condensed Matter 17 (50), 7971 (2005), Online ISSN: 1361-648X			
Drugi mentor	1 Aparajita Singha, Fabio Donati, Fabian Donat Natterer, Christian Wäckerlin, Srđan Stavić, Zoran S Popović, Željko Šljivančanin, Francois Patthey, Harald Brune, Physical Review Letters 121, 257202 (2018), Online ISSN 1079-7114			
	2 Edgar Fernandes, Fabio Donati, François Patthey, Srđan Stavić, Željko Šljivančanin, Harald Brune, Physical Review B 96, 045419 (2017), Online ISSN 2469-9969			
	3 Željko Šljivančanin, The Journal of Physical Chemistry C 118, 28720 (2014), ISSN 1932-7447			
	4 Srđan Stavić, Milivoj Belić, Željko Šljivančanin, Carbon 96, 216 (2016), ISSN 0008-6223			
	5 Radisav S Krsmanovic, Željko Šljivančanin, The Journal of Physical Chemistry C 118, 16104 (2014), ISSN 1932-7447			
PODACI O MAGISTRANDIMA I DOKTORANDIMA				
	Broj magistranada		Broj doktoranada	
	trenutno	ukupno	trenutno	Ukupno
Prvi mentor	1	1	0	0
Drugi mentor	1	1	0	0
Datum i ovjera (pečat i potpis odgovorne osobe)				
U Podgorici, 9 Decembar 2019				
		 DEKAN 		



UNIVERZITET CRNE GORE
PRIRODNO-MATEMATIČKI FAKULTET
FIZIKA

Broj dosijea: 2/2018

Na osnovu člana 165 Zakona o opštem upravnom postupku ("Službeni list RCG" br. 60/03) i službene evidencije, a po zahtjevu Šoškić Nikola Božidar, izdaje se

POTVRDA O STUDIRANJU

Student **Šoškić Nikola Božidar**, rođen **26-02-1995** godine u mjestu **Einsiedeln**, Republika **Švajcarska**, upisan je studijske **2018/2019** godine, u **I** godinu studija, kao student koji se **samofinansira** na **akademske doktorske studije**, studijski program **FIZIKA**, koji realizuje **PRIRODNO-MATEMATIČKI FAKULTET - Podgorica** Univerziteta Crne Gore u trajanju od **3 (tri)** godine sa obimom **180** ECTS kredita.

Studijske **2018/2019** godine prijavio je *da sluša* **1** predmeta sa **10.00** (deset) ECTS kredita.

Po prvi put iz **I (prve)** godine, prijavio je *da sluša* **1** predmeta sa **10.00** (deset) ECTS kredita, što iznosi 16.67% od ukupnog broja ECTS kredita u **I** godinu.

Saglasno Statutu Univerziteta Crne Gore, **Šoškić Nikola Božidar** je po prvi put prijavio *da sluša* **manje od 2/3**, odnosno **66,67% (šezdesetšest 67/100 %)**, od ukupnog broja ECTS kredita sa **I** godine i studijske **2018/2019** **nema status redovnog studenta** koji se **samofinansira**.

Uvjerenje se izdaje na osnovu službene evidencije, a u svrhu ostvarivanja prava na: (dječji dodatak, porodičnu penziju, invalidski dodatak, zdravstvenu legitimaciju, povlašćenu vožnju za gradski saobraćaj, studentski dom, studentski kredit, stipendiju, regulisanje vojne obaveze i slično).



Broj:
Podgorica, 11.12.2019 godine

RG
SEKRETAR,
Ivanović Natalja

Na osnovu člana 165 stava 1 Zakona o opštem upravnom postupku ("Službeni list RCG", broj 60/03.), člana 115 stava 2 Zakona o visokom obrazovanju ("Službeni list CG", broj 44/14.) i službene evidencije, a po zahtjevu studenta Šoškić Nikola Božidar, izdaje se

UVJERENJE O POLOŽENIM ISPITIMA

Student **Šoškić Nikola Božidar**, rođen **26-02-1995** godine u mjestu **Einsiedeln**, Republika **Švajcarska**, upisan je studijske **2018/2019** godine, u **I** godinu studija, kao student koji se **samofinansira** na **doktorske akademske studije**, studijski program **FIZIKA**, koji realizuje **PRIRODNO-MATEMATIČKI FAKULTET** - Podgorica Univerziteta Crne Gore u trajanju od **3 (tri)** godine sa obimom **180 ECTS** kredita.

Student je položio ispite iz sljedećih predmeta:

Redni broj	Semestar	Naziv predmeta	Ocjena	Uspjeh	Broj ECTS kredita
1.	I	VIŠI KURS KVANTNE MEHANIKE	"A"	(odličan)	10.00

Zaključno sa rednim brojem 1.

Ostvareni uspjeh u toku dosadašnjih studija je:

- srednja ocjena položenih ispita **"A" (10.00)**
- ukupan broj osvojenih ECTS kredita **10.00** ili **16.67%**
- indeks uspjeha **1.67**.

Uvjerjenje se izdaje na osnovu službene evidencije, a u svrhu ostvarivanja prava na: (dječji dodatak, porodičnu penziju, invalidski dodatak, zdravstvenu legitimaciju, povlašćenu vožnju za gradski saobraćaj, studentski dom, studentski kredit, stipendiju, regulisanje vojne obaveze i slično).

Broj:
Podgorica, 11.12.2019 godine



SEKRETAR
Ivanović Nataša

Predrag Miranović -biografija-

Rođen sam 12 decembra 1966. godine u Podgorici, Crna Gora, gdje sam završio osnovnu školu i gimnaziju. Nakon odsluženja vojnog roka u JNA upisao sam 1986. godine studije fizike na Prirodno-matematičkom fakultetu Univerziteta Crne Gore. Studije sam završio u redovnom roku oktobra 1990. godine sa prosječnom ocjenom 9,63. Proglašen sam za najboljeg diplomiranog studenta Univerziteta Crne Gore za školsku 1989/90 i dobio Plaketu Univerziteta Crne Gore.

Odmah nakon završetka studija sam angažovan kao asistent-pripravnik na Univerzitetu Crne Gore. Upisao sam postdiplomske magistarske studije na Fizičkom fakultetu u Beogradu, i paralelno izvodio vježbe na Odsjeku za fiziku u Podgorici. Magistarski rad pod nazivom "NMR linije u visokotemperaturnim superprovodnicima" sam odbranio u oktobru 1993. godine. Kako bih se potpuno posvetio izradi doktorske disertacije u periodu 1993-1995 godine sam bio radno angažovan na Institutu za Fiziku u Zemunu. Doktorsku disertaciju "Magneto-elastični efekti u anizotropnim superprovodnicima" pod mentorstvom Ljiljane Dobrosavljević-Grujić sam odbranio u martu 1996. godine na Fizičkom fakultetu u Beogradu. Rezultati iz doktorske disertacije su objavljeni u dva rada u časopisu Američkog fizičkog društva, *Physical Review B*. Na osnovu toga sam nagrađen od strane Crnogorske akademije nauka i umjetnosti nagradom iz fonda Petra Vukčevića za uspjeh u istraživačkom radu u periodu 1993-1995. Nakon odbrane doktorske disertacije, u junu 1996. godine sam izabran u zvanje docent za predmet *Kvantna Mehanika* na Univerzitetu Crne Gore.

Tokom ljeta 1996. godine sam započeo saradnju sa Vladimirom G. Koganom na problemu raspodjele magnetnog polja unutar borokarbidnih superprovodnika, a rad sam dovršio za vrijeme studijskih boravaka u Ames National Laboratory, Iowa, USA, tokom decembra 1996. i aprila 1997. godine. Dva rada, koja su proizašla tokom boravaka u Ajovi, su naišli na veoma dobar prijem kod međunarodne naučne javnosti i citirani su preko 100 puta. Na poziv profesora Kenza Mije u periodu jun 1997 – jun 1998 godine sam boravio na Univerzitetu u Tokiju, u zvanju *lecturer*. Nakon povratka iz Japana, boravio sam dva mjeseca na Oak Ridge National Laboratory, Tennessee, USA kod profesora D. K. Christena. Tamo sam dovršio rad na temu „Flux lattice symmetry in V3Si: Nonlocal effects in a high-kappa superconductor” koji je po ocjeni Editoria zavrijedio da se predstavi u *Physical Review Focus* (izdanje od 24. juna 1999. godine). Nakon povratka iz USA radio sam na Institutu za Fiziku u Zemunu u zvanju naučni saradnik. Na Univerzitet Crne Gore sam se vratio u ljeto 1999. godine. U zvanje vanredni profesor za predmet Kvantna fizika sam izabran 2001. godine. Na konkursu Japanskog društva za promociju nauke sam dobio postdoktorsku stipendiju koja mi je omogućila boravak na Univerzitetu u Okajami kod profesora Kazušige Mačide u periodu 2001-2003. Za vrijeme specijalizacije sam uspio da razvijem posebnu metodu za numeričko rješavanje mikroskopskih jednačina superprovodnosti koja je omogućila mnogo lakšu analizu velikog broja problema koji se tiču termodinamičkih i transportnih osobina superprovodnika.

Plodnu saradnju sa Univerzitetom u Okajami sam nastavio i nakon povratka na Univerzitet Crne Gore.

Nakon povratka iz Japana sam se, pored nauke i nastave, posvetio i drugim aktivnostima. U periodu 2004-2006 godine sam bio predsjednik Društva fizičara Srbije i Crne Gore. U oktobru 2006. godine sam izabran u zvanje redovni profesor. Vijeće Prirodno-matematičkog fakulteta me je izabralo za člana Nastavno-naučnog vijeća, odnosno Senata Univerziteta 2003 godine. Bio sam član Nacionalnog savjeta za naučno-istraživačku djelatnost. Od marta 2007 do avgusta 2008 godine obavljao sam funkciju prorektora za nastavu na Univerzitetu Crne Gore. U periodu 2008-2014 bio sam rektor Univerziteta Crne Gore. Za vanrednog člana Crnogorske akademije nauka i umjetnosti izabran sam u decembru 2008.

Školovanje:

1986-1990 BSc Fizika, Univerzitet Crne Gore, Prirodno-matematički fakultet

1990-1993 MSc Fizika, Univerzitet u Beogradu, Fizički fakultet

1993-1996 PhD Fizika, Univerzitet u Beogradu, Fizički fakultet

Doktorska disertacija *Magneto-elastični efekti u anizotropnim superprovodnicima*

Mentor: Ljiljana-Dobrosavljević-Grujić

Profesionalne pozicije:

1996-2001 Docent na Univerzitetu Crne Gore

1997-1998 Lecturer na Univerzitetu u Tokiju, Japan

1997-1999 Naučni saradnik, Institut za Fiziku, Zemun, Srbija

2001-2003 Stipendista Japanskog društva za promociju nauke na Univerzitetu u Okayami, Japan

2006- Redovni profesor na Univerzitetu Crne Gore

2004-2006 Predsjednik Društva fizičara Srbije i Crne Gore

2003- 2014 Član Senata Univerziteta Crne Gore

2007- 2008 Prorektor za nastavu Univerziteta Crne Gore

2007- 2010 Član Nacionalnog savjeta za naučno-istraživačku djelatnost.

2008- 2014 Rektor Univerziteta Crne Gore

2008- 2018 Vanredni član CANU

2018 - Redovni član CANU

Nagrade i stipendije:

- Plaketa Univerziteta Crne Gore kao najbolji diplomirani student Univerziteta za školsku 1989/90.
- Nagrada CANU iz fonda Petra Vukčevića za uspjeh u istraživačkom radu u periodu 1993-1995.

- Postdoktorska stipendija stipendija Japanskog društva za promociju nauke za period 2001-2003

Studijski boravci:

1996 (Decembar)	Ames National Laboratory, Ames, Iowa, USA (prof. V. G. Kogan)
1997 (April)	Ames National Laboratory, Ames, Iowa, USA (prof. V. G. Kogan)
1997-1998	Faculty of engineering, University of Tokio, Japan (prof. K. Miya)
1998 (Avgust)	Oak Ridge National Laboratory, Tennessee, USA (prof. D. K. Christen)
2001-2003	Department of Physics, Okayama University, Japan, (prof. K. Machida)
2004 (Januar)	Department of Physics, Okayama University, Japan, (prof. K. Machida)
2006 (Januar)	Department of Physics, Okayama University, Japan, (prof. K. Machida)
2007 (Januar)	Department of Physics, Okayama University, Japan, (prof. K. Machida)
2008 (Januar)	Department of Physics, Okayama University, Japan, (prof. K. Machida)

Publikacije:

Koautor sam u 40 radova objavljenih u renomiranim naučnim časopisima (koji su na SCI listi) kao što su časopisi Američkog fizičkog društva (Physical Review Letters, Physical Review B) i Japanskog fizičkog društva (Journal of Physical Society of Japan).

Spisak radova

1. Title: Zero bias conductance in d-wave superconductor/ferromagnet/d-wave superconductor trilayers

Author(s): Popović, Z.; Miranović, P.; Zikic R.

Source: PHYSICA STATUS SOLIDI B Volume: Issue: Article Number: 1700554

Published: 2018

2. Title: Anisotropy of spin polarized transport in ferromagnet/d-wave superconductor bilayer: Role of small exchange field

Author(s): Popović, Z.; Miranović, P.

Source: PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS Volume Issue:

Article Number:

To Be Published: 2018

3. Title: Generic first order orientation transition of vortex lattice in type II superconductors

Author(s): Suzuki, M. Kenta; Inoue, Kenji; Miranović, Predrag; Ichioka, Masanori; Machida, Kazushige

Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 79 Issue: 1 Article Number: 013702

Published: 2010

4. Title: Field-angle-dependent specific heat measurements and gap determination of a heavy fermion superconductor URu₂Si₂

Author(s): Yano, K.; Sakakibara, T.; Tayama, T.; Yokoyama, M.; Amitsuka, H.; Homma, Y.; Miranović, P.; Ichioka, M.; Tsutsumi, Y.; Machida, K.

Source: PHYSICAL REVIEW LETTERS Volume: 1 Issue: 1 Article Number: 017004
Published: 2008

5. Title: Low energy excitations in the mixed state of the anisotropic s-wave superconductor CeRu2

Author(s): Yamada, Atsushi; Sakakibara, Toshiro; Custers, Jeroen; Hedo, Masato; Ōnuki, Yoshichika; Miranović, Predrag; Machida, Kazushige

Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 76 Issue: 12 Article Number: 123704 Published: 2007

6. Title: Electronic thermal conductivity in a superconducting vortex state

Author(s): Adachi, H.; Miranovic, P.; Ichioka, M.; Machida, K.

Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 463 Pages: 36-39 Published: 2007

7. Title: Quasiclassical calculation of the quasiparticle thermal conductivity in a mixed state

Author(s): Adachi, Hiroto; Miranović, Predrag; Ichioka, Masanori; Machida, Kazushige

Source: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: 310 Issue: 2 Pages: 640-642 Part: Part 1 Published: 2007

8. Title: Quasi-classical calculation of the mixed-state thermal conductivity in s- and d-wave superconductors

Author(s): Adachi, Hiroto; Miranović, Predrag; Ichioka, Masanori; Machida, Kazushige

Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 76 Issue: 6 Article Number: 064708 Published: 2007

9. Title: Effect of field-dependent core size on reversible magnetization of high-kappa superconductors

Author(s): Kogan, V. G.; Prozorov, R.; Bud'Ko, S. L.; Canfield, P. C.; Thompson, J. R.; Karpinski, J.; Zhigadlo, N. D.; Miranović, P.

Source: PHYSICAL REVIEW B Volume: 74 Issue: 18 Article Number: 184521 Published: 2006

10. Title: Ubiquitous V-shape density of states in a mixed state of clean limit type II superconductors

Author(s): Nakai, N.; Miranović, P.; Ichioka, M.; Hess, H. F.; Uchiyama, K.;

Nishimori, H.; Kaneko, S.; Nishida, N.; Machida, K.

Source: PHYSICAL REVIEW LETTERS Volume: 97 Issue: 14 Article Number: 147001 Published: 2006

11. Title: Basal-plane magnetic anisotropies of high-k d-wave superconductors in a mixed state: A quasiclassical approach

Author(s): Adachi, Hiroto; Miranović, Predrag; Ichioka, Masanori; Machida, Kazushige

Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 75 Issue: 8 Article Number: 084716 Published: 2006

12. Title: Specific heat and low-lying excitations in the mixed state for a type-II superconductor

Author(s): Nakai, N.; Miranović, P.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW B Volume: 73 Issue: 17 Article Number: 172501 Published: 2006

13. Title: Theory of gap-node detection by angle-resolved specific heat measurement

Author(s): Miranovic, P.; Ichioka, M.; Machida, K.; Nakai, N.

Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 17 Issue: 50 Pages: 7971-7980 Published: 2005

14. Title: Theoretical study on the field dependence of the zero energy density of states in an anisotropic gap superconductors

Author(s): Nakai, N.; Miranovic, P.; Ichioka, M.; Machida, K.

Source: JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS Volume: 66 Issue: 8-9 Pages: 1362-1364 Published: 2005

15. Title: Field-angle-dependent specific heat in the unconventional heavy-fermion superconductor CeCoIn₅

Author(s): Aoki, H.; Sakakibara, T.; Shishido, H.; Settai, R.; Ōnuki, Y.; Miranović, P.; Machida, K.

Source: PHYSICA B-CONDENSED MATTER Volume: 359 Pages: 410-412 Published: 2005

16. Title: Anisotropic diamagnetic response in type-II superconductors with gap and Fermi-surface anisotropies

Author(s): Adachi, H.; Miranović, P.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW LETTERS Volume: 94 Issue: 6 Article Number: 067007 Published: 2005

17. Title: Electronic state around vortex in a two-band superconductor

Author(s): Ichioka, Masanori; Machida, Kazushige; Nakai, Noriyuki; Miranović, Predrag

Source: PHYSICAL REVIEW B Volume: 70 Issue: 14 Article Number: 144508 Published: 2004

18. Title: Field dependence of the zero-energy density of states around vortices in an anisotropic-gap superconductor

Author(s): Nakai, N.; Miranović, P.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW B Volume: 70 Issue: 10 Article Number: 100503 Published: 2004

19. Title: Effects of nonmagnetic scatterers on the local density of states around a vortex in s-wave superconductors

Author(s): Miranović, P.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW B Volume: 70 Issue: 10 Article Number: 104510 Published: 2004

20. Title: Field-angle dependence of the zero-energy density of states in the unconventional heavy-fermion superconductor CeCoIn₅

Author(s): Aoki, H.; Sakakibara, T.; Shishido, H.; Settai, R.; Onuki, Y.; Miranovic, P.; Machida, K.

Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 16 Issue: 3 Pages: L13-L19 Published: 2004

21. Title: Low temperature specific heat in anisotropic superconductors

Author(s): Dobrosavljević-Grujić, L.; Miranović, P.

Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 397 Issue: 3-4 Pages: 117-122 Published: 2003

22. Title: Orientational field dependence of low-lying excitations in the mixed state of unconventional superconductors

Author(s): Miranović, P.; Nakai, N.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW B Volume: 68 Issue: 5 Article Number: 052501 Published: 2003

23. Title: Microscopic study of low-kappa type-II superconductors

Author(s): Miranović, P.; Nakai, N.; Ichioka, M.; Machida, K.

Source: PHYSICA B-CONDENSED MATTER Volume: 329 Pages: 1382-1383 Part: Part 2 Published: 2003

24. Title: Theoretical study on vortex lattices in tetragonal superconductors

Author(s): Nakai, Noriyuki; Miranović, Predrag; Ichioka, Masanori; Machida, Kazushige

Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 388 Pages: 677-678 Published: 2003

25. Title: Thermodynamics and magnetic field profiles in low-kappa type-II superconductors

Author(s): Miranović, P.; Machida, K.

Source: PHYSICAL REVIEW B Volume: 67 Issue: 9 Article Number: 092506 Published: 2003

26. Title: Theoretical studies on vortices in unconventional and conventional superconductors

Author(s): Machida K, Ichioka M, Miranovic P, et al.

Source: ACTA PHYSICA POLONICA B Volume: 34 Issue: 2 Pages: 545-548 Published: 2003

27. Title: Anisotropy of the upper critical field in superconductors with anisotropic gaps: Anisotropy parameters of MgB₂

Author(s): Miranović, Predrag; Machida, Kazushige; Kogan, Vladimir G.

Source: JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 72 Issue: 2 Pages: 221-224 Published: 2003

28. Title: Anisotropy of the superconducting state properties and phase diagram of MgB₂ by torque magnetometry on single crystals

Author(s): Angst, M.; Puzniak, R.; Wisniewski, A.; Roos, J.; Keller, H.; Miranović, P.; Jun, J.; Kazakov, S. M.; Karpinski, J.

Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 385 Issue: 1-2 Pages: 143-153 Published: 2003

29. Title: Reentrant vortex lattice transformation in fourfold symmetric superconductors

Author(s): Nakai, N.; Miranović, P.; Ichioka, M.; Machida, K.

Source: PHYSICAL REVIEW LETTERS Volume: 89 Issue: 23 Article Number: 237004 Published: 2002

30. Title: Elastic moduli of vortex lattices within nonlocal London model

Author(s): Miranović, P.; Kogan, V. G.

Source: PHYSICAL REVIEW LETTERS Volume: 87 Issue: 13 Article Number: 137002 Published: 2001

31. Title: Nonlocal effects in angular dependence of in-plane magnetization of tetragonal superconductors

Author(s): Kogan, V. G.; Bud'Ko, S. L.; Canfield, P. C.; Miranović, P.

Source: PHYSICAL REVIEW B Volume: 60 Issue: 18 Pages: R12577-R12580 Published: 1999

32. Title: Flux lattice symmetry in V₃Si: Nonlocal effects in a high-kappa superconductor

Author(s): Yethiraj, M.; Christen, D. K.; Paul, D. Mck.; Miranovic, P.; Thompson, J. R.

Source: PHYSICAL REVIEW LETTERS Volume: 82 Issue: 25 Pages: 5112-5115
Published: 1999

33. Title: Irreversibility field analysis for Bi₂Sr₂Ca₂Cu₃O_x tapes by using axial probe
Author(s): Rábara, M.; Yoshida, Y.; Takeuchi, T.; Miranović, P.; Miya, K.
Source: PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS Volume: 305 Issue:
3-4 Pages: 285-292 Published: 1998

34. Title: Resistivity and magnetic susceptibility of single-crystal Lu(Ni_{1-x}Cox)(₂)B₂C (x=0.0-0.09)
Author(s): Cheon, K. O.; Fisher, I. R.; Kogan, V. G.; Canfield, P. C.; Miranović, P.;
Gammel, P. L.
Source: PHYSICAL REVIEW B Volume: 58 Issue: 10 Pages: 6463-6467 Published: 1998

35. Title: Vortex lattices in cubic superconductors
Author(s): Kogan, V. G.; Miranović, P.; Dobrosavljević-Grujić, Lj.; Pickett, W. E.;
Christen, D. K.
Source: PHYSICAL REVIEW LETTERS Volume: 79 Issue: 4 Pages: 741-744 Published:
1997

36. Title: Vortex lattice transitions in borocarbides
Author(s): Kogan, V. G.; Bullock, M.; Harmon, B.; Miranović, P.; Dobrosavljević;
Grujić, Lj.; Gammel, P. L.; Bishop, D. J.
Source: PHYSICAL REVIEW B Volume: 55 Issue: 14 Pages: R8693-R8696 Published:
1997

37. Title: GINZBURG-LANDAU THEORY OF VORTEX LATTICE STRUCTURE IN
DEFORMABLE ANISOTROPIC SUPERCONDUCTORS
Author(s): Miranović, P.; Dobrosavljević-Grujić, Lj.; Kogan, V. G.
Source: PHYSICAL REVIEW B Volume: 52 Issue: 17 Pages: 12852-12857 Published:
1995

38. Title: ON THE STRAIN-INDUCED VORTEX MASS IN ANISOTROPIC
SUPERCONDUCTORS
Author(s): Miranović, P.; Dobrosavljević-Grujić, Lj.
Source: PHYSICS LETTERS A Volume: 207 Issue: 3-4 Pages: 225-229 Published: 1995

39. Title: COMMENT ON THE TRANSCENDENTAL METHOD IN THE THEORY OF NEUTRON
SLOWING-DOWN
Author(s): Miranović, P.
Source: JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL Volume: 28 Issue: 14
Pages: 4189-4190 Published: 1995

40. Title: VORTEX-INDUCED STRAIN AND FLUX LATTICES IN ANISOTROPIC
SUPERCONDUCTORS
Author(s): Kogan, V. G.; Bulaevskii, L. N.; Miranović, P.; Dobrosavljević-Grujić, L.
Source: PHYSICAL REVIEW B Volume: 51 Issue: 21 Pages: 15344-15350 Published:
1995

Ostala stručna aktivnost:

Recenzent za časopise Physical Review Letters i Physical Review B.

Lista aktivnosti kao recenzenta Američkog fizičkog društva:

Summary of papers sent from 2003 to 2008 to Dr. Miranovic (541154) to referee

Here is information on the papers that the American Physical Society asked you to review from 2003 to 2008 as translated from our database. Listed are the following: manuscript code at the time of the referral, the journal that asked you to review the paper, the date the referral was sent (via post or email), the date we officially received your report or response, the current title (possibly truncated) in TeX format (some characters may not display correctly), the current authors in TeX format (possibly truncated), your response as categorized by our internal conventions (possibly not reflecting the entirety of what you actually told us), and the current manuscript status, including the current journal and section type (if not published).

1. **BH10870** Journal: PRB Date of referral: 28Aug07 Date of response: 23Sep07
Contribution of the surface dipole to deformation of superconductors
Lipavsk\{'y\}, Pavel/Morawetz, Klaus/Kol\{'a\}\v{c}ek, Jan/Brandt, Ernst Helmut/Schreiber, Michael/
Response from referee: Report received
Current manuscript status: Published as PRB 77, 014506 (15 January 2008)
2. **BD10707** Journal: PRB Date of referral: 18May07 Date of response: 21May07
Phenomenological theory of spin excitations in La- and Y-based cuprates
Zhou, Tao/Wang, Z.D./
Response from referee: Too busy. Not referee's field
Current manuscript status: Published as PRB 76, 094510 (13 September 2007)
3. **LT10029B** Journal: PRB Date of referral: 20Feb07 Date of response: 06Mar07
Gapless Fermi surfaces in superconducting CeCoIn₅
Barzykin, Victor/Gor'kov, L.P./
Response from referee: Report received
Current manuscript status: Published as PRB 76, 014509 (18 July 2007)
4. **BVR1037** Journal: PRB Date of referral: 23Aug06 Date of response: 28Aug06
No-loss migration of preformed bosons at $T > T_c$ in high-temperature superconductors
Kawabata, K./
Response from referee: Not referee's field
Current manuscript status: No longer under consideration (PRB Brief Report)
5. **BQR1033** Journal: PRB Date of referral: 28Jun06 Date of response: 24Jul06
Fermi-liquid effects in the Fulde-Ferrell-Larkin-Ovchinnikov state of two-dimensional d -wave superconductors
Vorontsov, Anton B./Graf, Matthias J./
Response from referee: Report received
Current manuscript status: Published as PRB 74, 172504 (14 November 2006)
6. **LP10703** Journal: PRL Date of referral: 29Mar06 Date of response: 03Apr06
Phase diagram of heavy fermion metal CeCoIn₅

- Shaginyan, V.R./Msezane, A.Z./Stephanovich, V.A./Kirichenko, E.V./*
 Response from referee: Too busy
 Current manuscript status: No longer under consideration (PRL)
7. **LK10814** Journal: PRL Date of referral: 13Feb06 Date of response: 22Feb06
Thin Ohmic or superconducting strip with an applied ac electric current
Brandt, Ernst Helmut/
 Response from referee: Report received
 Current manuscript status: Published as PRB 73, 092511 (23 March 2006)
8. **LE10603** Journal: PRL Date of referral: 07Dec05 Date of response: 23Dec05
Exotic pairing instability in heavy fermion superconductor CeCoIn₅
Bussmann-Holder, A./Simon, A./Bishop, A.R./
 Response from referee: Report received
 Current manuscript status: No longer under consideration (PRL)
9. **LH10288** Journal: PRL Date of referral: 16Aug05 Date of response: 29Aug05
Curie law, entropy excess, and superconductivity in heavy fermion metals and other strongly interacting Fermi liquids
Khodel, V.A./Zverev, M.V./Yakovenko, Victor M./
 Response from referee: Report received
 Current manuscript status: Published as PRL 95, 236402 (29 November 2005)
10. **BB10155** Journal: PRB Date of referral: 01Apr05 Date of response: 14Apr05
Anisotropic superconducting strip in an oblique magnetic field
Brandt, E.H./Mikitik, G.P./
 Response from referee: Report received
 Current manuscript status: Published as PRB 72, 024516 (12 July 2005)
11. **BB10155** Journal: PRB Date of referral: 14Feb05 Date of response: 02Mar05
Anisotropic superconducting strip in an oblique magnetic field
Brandt, E.H./Mikitik, G.P./
 Response from referee: Report received
 Current manuscript status: Published as PRB 72, 024516 (12 July 2005)
12. **BZ9316** Journal: PRB Date of referral: 03Jan05 Date of response: 20Jan05
Field-angle-resolved specific heat and thermal conductivity in the vortex phase of UPd₂Al₃
Thalmeier, P./Watanabe, T./Izawa, K./Matsuda, Y./
 Response from referee: Report received
 Current manuscript status: Published as PRB 72, 024539 (26 July 2005)
13. **BYJ920** Journal: PRB Date of referral: 30Nov04 Date of response: 08Dec04
Zeeman splitting effects in the phase diagram of multiple-band superconductors
Dias, R.G./
 Response from referee: Report received
 Current manuscript status: Published as PRB 72, 012505 (14 July 2005)
14. **BU9168** Journal: PRB Date of referral: 05Nov04 Date of response: 11Nov04
Effects of Fermi surface and superconducting gap structure in field-

- rotational experiments: A possible explanation for the cusplike singularity in $\text{YNi}_2\text{B}_2\text{C}$**
Udagawa, Masafumi/Yanase, Youichi/Ogata, Masao/
 Response from referee: Report received
 Current manuscript status: Published as [PRB 71, 024511 \(21 January 2005\)](#)
15. **BU9168** Journal: PRB Date of referral: 16Oct04 Date of response: 01Nov04
Effects of Fermi surface and superconducting gap structure in field-rotational experiments: A possible explanation for the cusplike singularity in $\text{YNi}_2\text{B}_2\text{C}$
Udagawa, Masafumi/Yanase, Youichi/Ogata, Masao/
 Response from referee: Declined to review or didn't receive referral
 Current manuscript status: Published as [PRB 71, 024511 \(21 January 2005\)](#)
16. **LM9096BJ** Journal: PRB Date of referral: 23Sep04 Date of response: 05Oct04
Thermodynamics of MgB_2 described by the weak-coupling two-band BCS model
Mishonov, Todor M./Pokrovsky, Valery L./Wei, Hongduo/
 Response from referee: Report received
 Current manuscript status: Published as [PRB 71, 012514 \(31 January 2005\)](#)
17. **BT9026** Journal: PRB Date of referral: 24Aug04 Date of response: 06Sep04
Field distribution of a vortex in d -wave superconductors: Quasiclassical approach versus generalized London equation
Laiho, R./L\"{a}hteranta, E./Safonchik, M./Traito, K.B./
 Response from referee: Report received
 Current manuscript status: Published as [PRB 71, 024521 \(27 January 2005\)](#)
18. **BU9168** Journal: PRB Date of referral: 11Aug04 Date of response: 06Sep04
Effects of Fermi surface and superconducting gap structure in field-rotational experiments: A possible explanation for the cusplike singularity in $\text{YNi}_2\text{B}_2\text{C}$
Udagawa, Masafumi/Yanase, Youichi/Ogata, Masao/
 Response from referee: Report received
 Current manuscript status: Published as [PRB 71, 024511 \(21 January 2005\)](#)
19. **LR9599** Journal: PRL Date of referral: 25Jun04 Date of response: 13Jul04
 Ab initio calculations of H_{c2} for Nb, NbSe_2 , and MgB_2
Arai, Masao/Kita, Takafumi/
 Response from referee: Report received
 Current manuscript status: No longer under consideration (PRL)
20. **BT9026** Journal: PRB Date of referral: 10Jun04 Date of response: 18Jun04
Field distribution of a vortex in d -wave superconductors: Quasiclassical approach versus generalized London equation
Laiho, R./L\"{a}hteranta, E./Safonchik, M./Traito, K.B./
 Response from referee: Report received
 Current manuscript status: Published as [PRB 71, 024521 \(27 January 2005\)](#)
21. **LR9599** Journal: PRL Date of referral: 07May04 Date of response: 16May04
 Ab initio calculations of H_{c2} for Nb, NbSe_2 , and MgB_2

Arai,Masao/Kita,Takafumi/

Response from referee: Report received

Current manuscript status: No longer under consideration (PRL)

22. **BN8950** Journal: PRB Date of referral: 29Apr04 Date of response: 12May04

Quasiclassical theory of superconducting states under magnetic fields: Thermodynamic properties

Kusunose,Hiroaki/

Response from referee: Report received

Current manuscript status: Published as PRB 70, 054509 (10 August 2004)

23. **BN8950** Journal: PRB Date of referral: 26Jan04 Date of response: 18Feb04

Quasiclassical theory of superconducting states under magnetic fields: Thermodynamic properties

Kusunose,Hiroaki/

Response from referee: Report received

Current manuscript status: Published as PRB 70, 054509 (10 August 2004)

24. **BG9092** Journal: PRB Date of referral: 23Oct03 Date of response: 07Nov03

Mechanism of vortex escape from extended linear defects in the three-dimensional anisotropic superconductor

Kasatkin,A.L./Rhee,J.Y./Lee,Y.P./

Response from referee: Report received

Current manuscript status: No longer under consideration (PRB regular article)



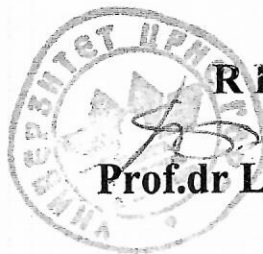
Број: 01-3379
Датум, 23.11.2006 г.

Ref: _____
Date, _____

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 23.11.2006. godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr PREDRAG MIRANOVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za predmet Kvantna fizika na **Prirodno-matematičkom fakultetu u Podgorici**.



REKTOR,

Prof.dr Ljubiša Stanković

Curriculum Vitae

Name: **Željko Šljivančanin**

Vinča Institute of Nuclear Sciences
Department of Theoretical and
Condensed Matter Physics (020)
P.O. Box 522
RS-11001 Belgrade, Serbia

Email: zeljko@vinca.rs

Phone: +381 11 644 2611

Degrees

- 1999: Ph.D., Faculty of Physics, University of Belgrade, Yugoslavia.
- 1996: Master of Science, Faculty of Physics, University of Belgrade, Yugoslavia.
- 1991: Bachelor of Science (Physics), Faculty of Physics, University of Belgrade, Yugoslavia.

Positions

- 2011-: Senior research staff member and the group leader,
Vinča Institute of Nuclear Sciences, Belgrade, Serbia.
- 2009-2011: Research staff member,
Vinča Institute of Nuclear Sciences, Belgrade, Serbia.
- 2007-2009 : Postdoctoral fellow in the group of Prof. Bjørk Hammer,
University of Aarhus, Denmark.
- 2004-2007: Postdoctoral fellow and Project Leader in the group of Prof. Alfonso Baldereschi,
Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.
- 2002-2004: Postdoctoral fellow in the group of Prof. Alfredo Pasquarello,
Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.
- 2000-2002: Postdoctoral fellow in the group of Prof. Bjørk Hammer,
University of Aarhus, Denmark.
- 1999-2000: Postdoctoral fellow in the group of Prof. Bjørk Hammer,
Aalborg University, Denmark.
- 1996-1999: Research assistant, the Laboratory for Theoretical Physics,
"Vinča" Institute of Nuclear Sciences, Belgrade, Yugoslavia.

Research interests

- Graphene and other 2D materials.
- Magnetism in the systems with reduced dimensionality.
- Atomic and electronic structure of crystalline surfaces.
- Catalytic properties of metal clusters.

Current Projects

- OI 171033 project of Serbian Ministry of Education and Science (2011-2019).
- Grande Relevanza project of the Government of Italian Republic (2019-2020)

Peer-reviewed publications and citations

More than 50 publications in peer-reviewed international journals, including one paper in *Science*, *Nature Materials*, ten in *Physical Review Letters*, one in *ACS Nano* and one in *Journal of the American Chemical Society*, which received more than 3400 citations.

List of publications of Željko Šljivančanin

55. S. Stavrić, Z. S. Popović and Ž. Šljivančanin, "Understanding trends in lithium binding at two-dimensional materials", *Phys. Rev. Materials* **2**, 114007 (2018).
54. A. Singha, F. Donati, F. D. Natterer, C. Wäckerlin, S. Stavrić, Z. S. Popović, Ž. Šljivančanin, F. Patthey and H. Brune, "Spin excitations in a 4f-3d heterodimer on MgO", *Phys. Rev. Lett.* **121**, 257202 (2018).
53. D. N. Sredojević, Ž. Šljivančanin, E. N. Brothers and M. R. Belić, "Formic Acid Synthesis by CO₂ Hydrogenation over Single-Atom Catalysts Based on Ru and Cu Embedded in Graphene", *Chem. Select* **3**, 2631 (2018).
52. Ž. Šljivančanin and M. Belić, "Graphene/MoS₂ heterostructures as templates for growing two-dimensional metals: predictions from ab-initio calculations", *Phys. Rev. Materials* **1**, 044003 (2017).
51. E. Fernandes, F. Donati, F. Patthey, S. Stavrić, Ž. Šljivančanin and H. Brune, "Adsorption sites of individual metal atoms on ultrathin MgO(100) films", *Phys. Rev. B* **96**, 045419 (2017).
50. F. Donati, S. Rusponi, S. Stepanow, C. Wackerlin, A. Singha, L. Persichetti, R. Baltic, K. Diller, F. Patthey, E. Fernandes, J. Dreiser, Ž. Šljivančanin, K. Kummer, C. Nistor, P. Gambardella and H. Brune, "Magnetic Remanence in Single Atoms", *Science* **352**, 318 (2016).
49. S. Stavrić, M. Belić and Ž. Šljivančanin, "Planar versus three-dimensional growth of metal nanostructures on graphene", *Carbon* **96**, 216 (2016).
48. T. L. Makarova, A. L. Shelankov, A. A. Zyrianova, A. I. Veinger, T. V. Tisnek, E. Lahderanta, A. I. Shames, A. V. Okotrub, L. G. Bulusheva, D. V. Pinakov, I. P. Asanov and Ž. Šljivančanin, "Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements", *Scientific Reports* **5**, 13382 (2015).
47. M. Lundie, Ž. Šljivančanin and S. Tomić, "Electronic and optical properties of reduced graphene oxide", *J. Mater. Chem. C* **3**, 7632 (2014).
46. Ž. Šljivančanin, "Collective Diffusion of Gold Clusters and F-centers at MgO(100) and CaO(100) Surfaces", *J. Phys. Chem. C* **118**, 28720 (2014).
45. M. Lundie, S. Tomić and Ž. Šljivančanin, "Ab initio study of structural and electronic properties of partially reduced graphene oxide", *Phys. Scripta* **T162**, 014019 (2014).
44. R. S. Krsmanović and Ž. Šljivančanin, "Atomic Structure, Electronic Properties, and Reactivity of In-Plane Heterostructures of Graphene and Hexagonal Boron Nitride", *J. Phys. Chem. C* **118**, 16104 (2014).
43. R. Balog, M. Andersen, B. Jørgensen, Ž. Šljivančanin, B. Hammer, A. Baraldi, R. Lariciprete, P. Hofmann, L. Hornekær and S. Lizzit, "Controlling Hydrogenation of Graphene on Ir(111)", *ACS Nano* **7**, 3823 (2013).
42. Ž. Šljivančanin, A. S. Milošević, Z. S. Popović and F. R. Vukajlović, "Binding of atomic oxygen on graphene from small epoxy clusters to a fully oxidized surface", *Carbon* **54**, 482 (2013).
41. Ž. Šljivančanin, R. Balog and L. Hornekær, "Magnetism in graphene induced by hydrogen adsorbate", *Chem. Phys. Lett.* **541**, 70 (2012).

40. L. Ćirić, D. M. Djokić, J. Jacimović, A. Sienkiewicz, A. Magrez, L. Forró, Ž. Šljivančanin, M. Lotya, and J. N. Coleman, "Magnetism in nanoscale graphite flakes as seen via electron spin resonance", *Phys. Rev. B* **85**, 205437 (2012).
39. L. Nilsson, Ž. Šljivančanin, R. Balog, W. Xu, T. R. Linderöth, E. Lægsgaard, I. Stensgaard, B. Hammer, F. Besenbacher and L. Hornekær, "Linear hydrogen adsorbate structures on graphite induced by self-assembled molecular monolayers ", *Carbon* **50**, 2052 (2012).
38. Ž. Šljivančanin, "Electronic properties of the partially hydrogenated armchair carbon nanotubes", *Phys. Rev. B* **84**, 085421 (2011).
37. Ž. Šljivančanin, M. Andersen, L. Hornekær and B. Hammer, "Structure and stability of small H clusters on graphene", *Phys. Rev. B* **83**, 205426 (2011).
36. C. Y. Ouyang, Ž. Šljivančanin and A. Baldereschi, "Transition from Mn^{4+} to Mn^{3+} induced by surface reconstruction at λ - $MnO_2(001)$ ", *J. Chem. Phys.* **133**, 204701 (2010).
35. V. Stevanović, Ž. Šljivančanin, and A. Baldereschi, "Role of Adsorbed H, C, O, and CO on the Atomic Structure of Free and $MgO(100)$ -Supported Ir-4 Clusters: An ab Initio Study", *J. Phys. Chem. C* **114**, 15653 (2010).
34. Ž. Šljivančanin and B. Hammer, "CO oxidation on fully oxygen covered $Ru(0001)$: Role of step edges", *Phys. Rev. B* **81**, 121413 (2010).
33. R. Balog, B. Jorgensen, L. Nilsson, M. Andersen, E. Rienks E, M. Bianchi, M. Fanetti, E. Lægsgaard, A. Baraldi A, S. Lizzit, Ž.Šljivančanin, F. Besenbacher, B. Hammer, T. G. Pedersen, P. Hofmann and L. Hornekær, "Bandgap opening in graphene induced by patterned hydrogen adsorption", *Nature Mat.* **9**, 315 (2010).
32. C. Y. Ouyang, X. M. Zeng, Ž. Šljivančanin and A. Baldereschi, "Oxidation States of Mn Atoms at Clean and Al_2O_3 -Covered $LiMn_2O_4(001)$ Surfaces", *J. Phys. Chem. C* **114**, 4756 (2010).
31. F. R. Vukajlović, Z. S. Popović, A. Baldereschi and Ž. Šljivančanin, "Effect of adsorbed H atoms on magnetism in monoatomic Fe wires at $Ir(100)$ ", *Phys. Rev. B* **81**, 085425 (2010).
30. S. Baouche, L. Hornekær, A. Baurichter, A. C. Luntz, V. V. Petrunin, and Ž. Šljivančanin, "Translational energy and state resolved observations of D and D_2 thermally desorbing from D clusters chemisorbed on graphite", *J. Chem. Phys.* **131**, 244707 (2009).
29. Ž. Šljivančanin, E. Rauls, L. Hornekær, W. Xu, F. Besenbacher, and B. Hammer, "Extended atomic hydrogen dimer configurations on the graphite(0001) surface", *J. Chem. Phys.* **131**, 084706 (2009).
28. Ž. Šljivančanin, H. Brune, and A. Pasquarello, "Nitrogen fixation at passivated Fe nanoclusters supported by an oxide surface: Identification of viable reaction routes using density functional calculations", *Phys. Rev. B* **80**, 075407 (2009).
27. C. Y. Ouyang, Ž. Šljivančanin, and A. Baldereschi, " First-principles study of γ - Al_2O_3 (100) surface", *Phys. Rev. B* **79**, 235410 (2009).
26. Z. Borjan, Z. S. Popović, Ž. Šljivančanin, and F. R. Vukajlović, "Electronic properties of bilayered manganite $Ca_{2.5}Sr_{0.5}GaMn_2O_8$ from first-principles calculations", *Phys. Rev. B* **77**, 212402 (2008).

25. V. Stevanović, Ž. Šljivančanin, and A. Baldereschi, "Effect of carbon adsorption on the isomer stability of Ir₄ clusters", *Phys. Rev. Lett.* **99**, 165501 (2007).
24. F. Devynck, Ž. Šljivančanin, and A. Pasquarello, "Electronic properties of an epitaxial silicon oxynitride layer on a 6H-SiC(0001) surface: A first-principles investigation", *Appl. Phys. Lett.* **91**, 061930 (2007).
23. L. Hornekær, E. Rauls, W. Xu, Ž. Šljivančanin, R. Otero, I. Stensgaard, E. Lægsgaard, B. Hammer, and F. Besenbacher, "Clustering of chemisorbed H(D) atoms on the graphite(0001) surface due to preferential sticking", *Phys. Rev. Lett.* **97**, 186102 (2006).
22. Željko Šljivančanin, Zoran S. Popović, Filip R. Vukajlović, and Alfonso Baldereschi, "Atomic structure and spin magnetism of self-assembled Co nanowires on Pt(332)", *Phys. Rev. B* **74**, 134412 (2006).
21. Zoran S. Popović, Željko V. Šljivančanin and Filip R. Vukajlović, "Comment on 'Sodium Pyroxene NaTiSi₂O₆: Possible Haldane Spin-1 Chain System' - Popović *et al.* reply", *Phys. Rev. Lett.* **96**, 249702 (2006).
20. L. Hornekær, Ž. Šljivančanin, W. Xu, R. Otero, E. Rauls, I. Stensgaard, E. Lægsgaard, B. Hammer, and F. Besenbacher, "Metastable structures and recombination pathways for atomic hydrogen on the graphite (0001) surface", *Phys. Rev. Lett.* **96**, 156104 (2006).
19. T. Greber, Ž. Šljivančanin, R. Schillinger, J. Wider, and B. Hammer, "Chiral Recognition of Organic Molecules by Atomic Kinks on Surfaces", *Phys. Rev. Lett.* **96**, 056103 (2006).
18. Ž. Šljivančanin and Alfredo Pasquarello, "Supported nanoclusters: Preadsorbates tuning catalytic activity", *Phys. Rev. B* **71**, 081403(R) (2005).
17. Ž. Šljivančanin and Alfredo Pasquarello, "Nitrogen adsorption on a supported iron nanoclusters", *Vacuum* **74**, 173 (2004).
16. Zoran S. Popović, Željko V. Šljivančanin and Filip R. Vukajlović, "Sodium Pyroxene NaTiSi₂O₆: Possible Haldane Spin-1 Chain System", *Phys. Rev. Lett.* **93**, 036401 (2004).
15. Ž. Šljivančanin and Alfredo Pasquarello, "Supported Fe Nanoclusters: Evolution of the Magnetism with Cluster Size", *Phys. Rev. Lett.* **90**, 247202 (2003).
14. Željko Šljivančanin, Kurt V. Gothelf, and Bjørk Hammer, "Density Functional Study of Enantiospecific Adsorption at Chiral Surfaces", *J. Am. Chem. Soc.* **124**, 14789 (2002).
13. Ž. Šljivančanin, B. Hammer, "Oxygen dissociation at close-packed Pt terraces, Pt steps, and Ag-covered Pt steps studied with density functional theory", *Surf. Sci.* **515**, 235 (2002).
12. J. K. Nørskov, T. Bligaard, A. Logadottir, S. Bahn, L. B. Hansen, M. Bollinger, H. Bengaard, B. Hammer, Z. Šljivančanin, M. Mavrikakis, Y. Xu, S. Dahl, and C. J. H. Jacobsen, "Universality in Heterogeneous Catalysis", *J. Catal* **209**, 275 (2002).
11. K. Højrup Hansen, Ž. Šljivančanin, E. Lægsgaard, F. Besenbacher, and I. Stensgaard, "Adsorption of O₂ and NO on Pd nanoclusters supported on Al₂O₃/NiAl(11): overlayer and edge structures", *Surf. Sci.* **505**, 25 (2002).
10. K. Højrup Hansen, Ž. Šljivančanin, B. Hammer, E. Lægsgaard, F. Besenbacher, and I. Stensgaard, "An STM and DFT study of the ordered structures of NO on Pd(111)", *Surf. Sci.* **496**, 1 (2002).

9. Ž. Šljivančanin, B. Hammer, "H₂ dissociation at defected Cu: Preference for reaction at vacancy and kink sites", *Phys. Rev. B* **65**, 085414 (2002).
8. C. Castellarin Cudia, Saw Wai Hla, G. Comelli, Ž. Šljivančanin, B. Hammer, A. Baraldi, K. C. Prince, and R. Rosci, "Distinct reaction mechanisms in the catalytic oxidation of carbon monoxide on Rh(110): an STM and DFT study", *Phys. Rev. Lett.* **87**, 196104 (2001).
7. P. Gambardella, Ž. Šljivančanin, B. Hammer, M. Blanc, K. Kuhnke, and K. Kern, "Oxygen dissociation at Pt steps", *Phys. Rev. Lett.* **87**, 056103 (2001).
6. Ž. V. Šljivančanin and F. R. Vukajlović, "Magnetic moments of transition metals overlayers on fcc Ni surface", *J. Phys.: Condens. Matter.* **10**, 8679 (1998).
5. Ž. V. Šljivančanin and F. R. Vukajlović, "Comment on 'Oscillation of Fe and Co magnetic moments near the sharp (1-1 0) Fe/Co interface' ", *Phys. Rev. Lett.* **80**, 1568 (1998).
4. Ž. V. Šljivančanin and F. R. Vukajlović, "Oscillation of the magnetic moment at metallic interfaces ", *Solid State Phenomena* **61-62**, 151 (1998).
3. Ž. V. Šljivančanin and F. R. Vukajlović, "Comment on 'Oscillation of Fe and Co magnetic moments near the sharp (1-1 0) Fe/Co interface' ", *Phys. Rev. Lett.* **80**, 1568 (1998).
2. Ž. V. Šljivančanin, Z. S. Popović, and F. R. Vukajlović, "Band picture of the spin-Peierls cuprate CuGeO₃", *Phys. Rev. B* **56**, 4432 (1997).
1. Z. S. Popović, F. R. Vukajlović, and Ž. V. Šljivančanin, "Band structure of spin-Peierls cuprate CuGeO₃", *J. Phys.: Condens. Matter.* **7**, 4549 (1995).

Република Србија
**МИНИСТАРСТВО ПРОСВЕТЕ
И НАУКЕ**
Комисија за стицање научних звања

Број:06-00-75/289

25.05.2011. године

Београд

На основу члана 22. става 2. члана 70. став 7. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

Институт за нуклеарне науке "Винча" у Београду

Комисија за стицање научних звања на седници одржаној 25.05.2011. године, донела је

**ОДЛУКУ
О СТИЦАЊУ НАУЧНОГ ЗВАЊА**

Др Жељко Шљиванчанин

стиче научно звање

Научни савешњик

у области природно-математичких наука - физика

О Б Р А З Л О Ж Е Њ Е

Институт за нуклеарне науке "Винча" у Београду

утврдио је предлог број 355/5 од 04.03.2011. године на седници научног већа Института и поднео захтев Комисији за стицање научних звања број 355/21 од 21.03.2011. године за доношење одлуке о испуњености услова за стицање научног звања ***Научни савешњик***.

Комисија за стицање научних звања је по предходно прибављеном позитивном мишљењу Матичног научног одбора за физику на седници одржаној 25.05.2011. године разматрала захтев и утврдила да именовани испуњава услове из члана 70. став 7. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) за стицање научног звања ***Научни савешњик***, па је одлучила као у изреци ове одлуке.

Доношењем ове одлуке именовани стиче сва права која му на основу ње по закону припадају.

Одлуку доставити подносиоцу захтева, именованом и архиви Министарства просвете и науке у Београду.

ПРЕДСЕДНИК КОМИСИЈЕ
др Станислава Стошић-Грујичић,
научни саветник



МИНИСТАР
Проф. др Жарко Обрадовић

