

# Spisak objavljenih radova sa citatima \*

July 4, 2018

**Radovi u vrhunskim međunarodnim časopisima, M21 - (8+8+8+8+8=40)**

1. B. Nikolić and B. Sazdović, Gauge symmetries decrease the number of  $Dp$ -brane dimensions, *Phys. Rev. D* **74** (2006) 045024.
2. B. Nikolić and B. Sazdović, Gauge symmetries decrease the number of  $Dp$ -brane dimensions. II. Inclusion of the Liouville term, *Phys. Rev. D* **75** (2007) 085011.
3. B. Nikolić and B. Sazdović, Type I background fields in terms of type IIB ones, *Phys. Lett. B* **666** (2008) 400.
4. B. Nikolić, B. Sazdović, *D5-brane type I superstring background fields in terms of type IIB ones by canonical method and T-duality approach*, *Nucl. Phys. B* **836** (2010) 100–126.
5. B. Nikolić and B. Sazdović, *Noncommutativity relations in type IIB theory and their supersymmetry*, *JHEP* **08** (2010) 037.
6. B. Nikolić and B. Sazdović, *Noncommutativity in space-time extended by Liouville field*, *Adv. Theor. Math. Phys.* **14** (2010) 1.
7. B. Nikolić and B. Sazdović, *Fermionic T-duality and momenta noncommutativity*, *Phys. Rev. D* **84** (2011) 065012.
8. B. Nikolić, B. Sazdović, *Dirichlet boundary conditions in type IIB superstring theory and fermionic T-duality*, *JHEP* **06** (2012) 101.
9. \* Lj. Davidović, B. Nikolić, B. Sazdović, *Canonical approach to the closed string noncommutativity*, *Eur. Phys. J C* **74** (2014) 2734.

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\*Ovde je dat spisak svih radova. Radovi objavljeni posle pokretanja postupka za izbor u zvanje viši naučni saradnik (diferencijalni radovi) kao i novi citati su označeni zvezdicama. Zbirovi posle poena se odnose na diferencijalne radove.

10. \* Lj. Davidović, B. Nikolić, B. Sazdović, *T-duality diagram for a weakly curved background*, *Eur. Phys. J C* **75** (2015) 576.
11. \* B. Nikolić and B. Sazdović, *Fermionic T-duality in fermionic double space*, *Nucl. Phys.* **B917** (2017) 105-121.
12. \* B. Nikolić and B. Sazdović, *T-dualization of type II superstring theory in double space*, *Eur. Phys. J. C* **77** (2017) 197.
13. \* B. Nikolić and D. Obrić, *Noncommutativity and nonassociativity of closed bosonic string on T-dual toroidal background*, *Fortsch. Phys.* **66** (2018) 040009.

#### **Rad u istaknutom međunarodnom časopisu, M22**

1. B. Nikolić and B. Sazdović, *Central charge contriution to noncommutativity*, *Fortschr. Phys.* **56**, 491 (2008).

#### **Rad u međunarodnom časopisu, M23**

1. B. Nikolić and B. Sazdović, *Type I superstring theory in the form of open type IIB with appropriate choice of boundary conditions*, *IJMP A* **24** (2009) 2857.
2. B. Nikolić and B. Sazdović, *Supersymmetry of noncommutativity relations*, *Rom. Journ. Phys.* Vol. 57, Nos. 5-6, P. 931-937, Bucharest, 2012.
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#### **Saopštenje sa međunarodnog skupa štampano u celini, M33 (1+1+1+1=4)**

1. B. Nikolić and B. Sazdović, *Noncommutativity in the presence of the dilaton field*, *Zbornik radova, Balkan Workshop 2005 (BW2005)*, II Southeastern European Workshop "Challenges Beyond the Standard Model", Facta Universitatis, Series: Physics, Chemistry and Technology, Vol. 4, N° 2, (2006) 405-413, editors: G. Djordjević, Lj. Nešić i J. Wess.
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3. B. Nikolić and B. Sazdović, *Open string boundary conditions dependence on the background fields*, *4th Summer School in Modern Mathematical Physics*, Belgrade, Serbia, 3–14. September 2006, editors: B. Dragovich, Z. Rakić (SFIN, XX A1 2007) 327 — 334.

4. B. Nikolić and B. Sazdović, *Improved relations between type I and type IIB background fields*, The 5th MATHEMATICAL PHYSICS MEETING: Summer School and Conference on Modern Mathematical Physics, Belgrade, Serbia, 6–17 July 2008, editors: B. Dragovich, Z. Rakić (SFIN, XXII A1 2009) 305 — 316.
5. B. Nikolić and B. Sazdović, *Hamiltonian Approach to Dp-brane Noncommutativity*, Spring School on Strings, Cosmology and Particles, Belgrade-Niš, 31.3.-04.04.2009., Monograph issue on "Modern Trends in Strings, Cosmology and Particles", Publications of Astronomical Observatory of Belgrade No.88, July, 2010, 61; Editors: M. Čirković, G. Djordjević, G. Senjanović, Referees: M. Hindmarsh, Dj. Šijački, D. Stojković.
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**Saopštenje sa medjunarodnog skupa štampano u izvodu, M34**

1. B. Nikolić and B. Sazdović, Central charge contribution to noncommutativity, *BW2007 III Southeastern European Workshop "Challenges Beyond the Standard Model"*, Kladovo, Serbia, 2–9. September 2007, editors: G. Djordjevic, M. Haack, Lj. Nesic (BW2007 Book of Abstracts, Faculty of Sciences and Mathematics, Section of Serbian Physical Society, Niš 2007) 35.

2. B. Nikolić and B. Sazdović, *Hamiltonian Approach to Dp-brane Noncommutativity*, Spring School on Strings, Cosmology and Particles, Belgrade-Niš, 31.3.-04.04.2009., Book of short contributions and extended abstracts (32-34); Editors: M. Čirković, G. Djordjević and Lj. Nešić.
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**Predavanje po pozivu sa skupa nacionalnog značaja štampano u celini, M61**  
(1.5)

1. \* B. Nikolić, *Gravitacioni talasi - od teorije do direktne detekcije*, Nastava fizike broj 3, maj 2016, 213-221, XXXIV Republički seminar o nastavi fizike, Zlatibor 12.-14. maj 2016.

**Saopštenje sa skupa nacionalnog značaja štampano u celini, M63 (1)**

1. B. Nikolić, i B. Sazdović, Granični uslovi za otvorenu strunu i nekomutativnost prostornih koordinata, Zbornik radova sa 11. kongresa fizičara Srbije i Crne Gore, Petrovac na moru, Srbija i Crna Gora, 3.-5. jun 2004. godine, urednici: N. Konjević, B. Vujić i P. Miranović (2004) 5-133 — 5-136.
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3. B. Nikolić and B. Sazdović, Contribution of dilaton field to *Dp*-brane properties, FIS2007- Fundamentalne Interakcije - Srbija 2007, septembar, 26-28 2007, Iriški venac, Novi Sad, Srbija. Journal of Research in Physics, Vol. 31, N° 2, (2007), ISSN 1450-7404, (98-101). Editors: Ištvan Bikit, Ivan Aničin, Dragan Popović, Ilija Savić, Milutin Blagojević, Miroslav Vesković, Petar Adžić, Božidar Cekić, Krunoslav Subotić, Maja Burić.
4. \* B. Nikolić, *Gravitacioni talasi - šta se to talasa?*, Zbornik radova "100 godina Opšte teorije relativnosti" str.43, 23. jun 2015. godine, SANU, Beograd, Srbija.

**Odbranjena doktorska disertacija, M71**

1. B. Nikolić, Nekomutativnost i dimenzionalnost  $Dp$ -brane, Fizički fakultet Univerziteta u Beogradu, 2008, mentor: prof. dr Branislav Sazdović

**Odbranjena magistarska teza, M72**

1. B. Nikolić, Efekat dilatonskog polja na nekomutativnost prostorno-vremenskih koordinata, Fizički fakultet Univerziteta u Beogradu, 2006, mentor: prof. dr Branislav Sazdović

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- \* Lj. Davidović, B. Sazdović, Curved Dp-brane in curved background by canonical methods, 6th Summer School in Modern Mathematical Physics (MPHYS6) 14-23 Sep 2010. Belgrade, Serbia.
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- \* B. Nikolić, B. Sazdović, Improved relations between type I and type IIB background fields, PROCEEDINGS. Edited by B. Dragovich, Z. Rakic. Belgrade, Inst. Phys. Belgrade, 2009. 513p. (SFIN Ser. A: Conferences; A1 (2009))
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