

Milutin Blagojević

List of Publications (2009-1971) ¹

A. Books and Review articles

- [1] M. Blagojević, *Gravitation and Gauge Symmetries* (Institute of Physics Publishing, Bristol, 2002), pp. 522.
- [2] M. Blagojević, *Gravitation and local symmetries* (in Serbian) (Institut of Physics, Belgrade, 1997), pp. 483.
- [3] M. Blagojević, Theory of gravity and local symmetries (in Serbian), *SFIN* **1** (1988) 1-113.
- [4] M. Blagojević and P. Senjanović, The quantum field theory of electric and magnetic charge, *Physics Reports* **157** (1988) 233-346.

B. Journal papers

- [5] M. Blagojević and B. Cvetković, Asymptotic structure of topologically massive gravity in spacelike stretched AdS sector, *JHEP* **09** (2009) 006 (20 pages), [arXiv:0907.0950 \[gr-qc\]](#).
- [6] M. Blagojević, B. Cvetković and O. Misković, Nonlinear electrodynamics in 3D gravity with torsion, *Phys. Rev. D* **80** (2009) 024043 (9 pages), [arXiv:0906.0235 \[gr-qc\]](#).
- [7] M. Blagojević and B. Cvetković, Canonical structure of topologically massive gravity with a cosmological constant, *JHEP* **05** (2009) 073 (20 pages), [arXiv:0812.4742 \[gr-qc\]](#).
- [8] M. Blagojević and B. Cvetković, Electric field in 3D gravity with torsion, *Phys. Rev. D* **78** (2008) 044036 (8 pages), [arXiv:0804.1899 \[gr-qc\]](#).
- [9] M. Blagojević and B. Cvetković, Self-dual Maxwell field in 3D gravity with torsion, *Phys. Rev. D* **78** (2008) 044037 (8 pages), [arXiv:0805.3627 \[gr-qc\]](#).
- [10] B. Cvetković and M. Blagojević, Stability of 3D black hole with torsion, *Mod. Phys. Lett A* **22** (2007) 3047-3055, [arXiv:0712.1434 \[gr-qc\]](#).
- [11] B. Cvetković and M. Blagojević, Supersymmetric 3D gravity with torsion: asymptotic symmetries, *Class. Quantum Grav.* **34** (2007) 3933-3950, [gr-qc/0702121](#).
- [12] M. Blagojević and B. Cvetković, Covariant description of the black hole entropy in 3D gravity, *Class. Quantum Grav.* **24** (2007) 129-139, [gr-qc/0607026](#).
- [13] M. Blagojević and B. Cvetković, Black hole entropy from the boundary conformal structure in 3D gravity with torsion, *JHEP* **10** (2006) 005 (12 pages), [gr-qc/0606086](#).
- [14] M. Blagojević and B. Cvetković, Black hole entropy in 3D gravity with torsion, *Class. Quantum Grav.* **23** (2006) 4781-4795, [gr-qc/0601006](#).

¹Last update: July 2009

- [15] M. Blagojević and B. Cvetković, Canonical structure of 3D gravity with torsion, in: *Progress in General Relativity and Quantum Cosmology*, vol. 2, ed. Ch. V. Benton (Nova Science Publishers, New York, 2006) 103-123, [gr-qc/0412134](#).
- [16] F. W. Hehl, Yu. N. Obukhov, G.F. Rubilar and M. Blagojević, On the theory of the skewon field: from electrodynamics to gravity, *Phys. Lett. A* **347** (2005) 14-24, [gr-qc/0506042](#).
- [17] M. Blagojević and M. Vasilić, On the classical central charge, *Class. Quantum Grav.* **22** (2005) 3891-3909, [hep-th/0410111](#).
- [18] M. Blagojević and M. Vasilić, Asymptotic dynamics in 3D gravity with torsion, *Phys. Rev. D* **68** (2003) 124007 (7 pages), [gr-qc/0306070](#).
- [19] M. Blagojević and M. Vasilić, 3D gravity with torsion as a Chern-Simons gauge theory, *Phys. Rev. D* **68** (2003) 104023 (6 pages), [gr-qc/0307078](#).
- [20] M. Blagojević and M. Vasilić, Asymptotic symmetries in 3D gravity with torsion, *Phys. Rev. D* **67** (2003) 084032 (14 pages), [gr-qc/0301051](#).
- [21] M. Blagojević and M. Vasilić, Conservation laws in the teleparallel theory with a positive cosmological constant, *Class. Quant. Grav.* **19** (2002) 3723-3744, [hep-th/0204015](#).
- [22] M. Blagojević, J. Garecki, F. W. Hehl and Y. N. Obukhov, Real null coframes in general relativity and GPS type coordinates, *Phys. Rev. D* **65** (2002) 044018 (6 pages), [gr-qc/0110078](#).
- [23] M. Blagojević and M. Vasilić, Conservation laws in the teleparallel theory of gravity, *Phys. Rev. D* **64** (2001) 044010 (12 pages), [hep-th/0008159](#).
- [24] M. Blagojević and M. Vasilić, Gauge symmetries of the teleparallel theory of gravity, *Class. Quant. Grav.* **17** (2000) 3785-3797, [hep-th/0006080](#).
- [25] M. Blagojević and I. A. Nikolić, Hamiltonian structure of the teleparallel formulation of general relativity, *Phys. Rev. D* **62** (2000) 024021 (10 pages), [hep-th/0002022](#).
- [26] M. Blagojević, D. S. Popović and B. Sazdović, 2D induced gravity from canonically gauged WZNW system, *Phys. Rev. D* **59** (1999) 044021 (7 pages), [hep-th/9808173](#).
- [27] M. Blagojević and B. Sazdović, 2D induced gravity as an effective WZNW system, *Phys. Rev. D* **58** (1998) 084024 (8 pages), [hep-th/9804197](#).
- [28] M. Blagojević, D. Popović and B. Sazdović, On the equivalence between 2D induced gravity and a WZNW system, *Mod. Phys. Lett. A* **13** (1998) 911-919, [hep-th/9709173](#).
- [29] M. Blagojević, B. Sazdović and M. Vasilić, Generalized canonical analysis of the free Ramond string field theory, *Facta Universitatis* No. **5** (1998) 101-112.
- [30] M. Blagojević, M. Vasilić and T. Vukašinac, Asymptotic symmetry and conservation laws in 2d Poincaré gauge theory of gravity, *Class. Quant. Grav.* **13** (1996) 3003-3019, [hep-th/9601174](#).
- [31] M. Blagojević, M. Vasilić and T. Vukašinac, Conformal gauge generators in Liouville theory, *Class. Quant. Grav.* **11** (1994) 2143-2153, [hep-th/9311146](#).
- [32] M. Blagojević and T. Vukašinac, Hamiltonian analysis of $SL(2, \mathbb{R})$ symmetry in Liouville theory, *Class. Quant. Grav.* **11** (1994) 1155-1175, [hep-th/9311032](#).

- [33] M. Blagojević, B. Sazdović and T. Vukašinac, Susy auxiliary fields from BRST analysis, *Mod. Phys. Lett. A* **8** (1993) 349-358.
- [34] Ž. Antunović, M. Blagojević and T. Vukašinac, BRST structure and auxiliary fields of simple supergravity, *Mod. Phys. Lett. A* **8** (1993) 1983-1997.
- [35] M. Blagojević, B. Sazdović and M. Vasilić, Improved covariant quantization of the superparticle, *Nuovo Cim. A* **105** (1992) 1395-1412.
- [36] M. Blagojević, B. Sazdović and M. Vasilić, Improved covariant quantization of the heterotic superstring, *Nucl. Phys. B* **365** (1991) 467-498.
- [37] Ž. Antunović and M. Blagojević, Off-shell BRST quantization of the massive superparticle, *Nucl. Phys. B* **363** (1991) 622-638.
- [38] M. Blagojević, B. Sazdović and M. Vasilić, Off-shell BRST quantization of the superparticle, *Phys. Lett. B* **236** (1990) 424-428.
- [39] Ž. Antunović and M. Blagojević, Nonperturbative approach to the infrared problem in monopole processes, *Phys. Lett. B* **227** (1989) 142-148.
- [40] M. Blagojević and B. Sazdović, Off-shell BRST quantization of the bosonic string field theory, *Phys. Lett. B* **223** (1989) 331-335.
- [41] M. Blagojević and B. Sazdović, Off-shell BRST quantization of reducible gauge theories, *Phys. Lett. B* **223** (1989) 325-330.
- [42] M. Blagojević, D. S. Popović and B. Sazdović, Hamiltonian BRST quantization of antisymmetric tensor gauge theory, *Nucl. Phys. B* **322** (1989) 587-604.
- [43] M. Blagojević, Prostor, vreme i gravitacija (in Serbian), *SFIN II* (1989) 1-39, A collection of papers in memory of Dj. Živanović.
- [44] M. Blagojević, D. S. Popović and B. Sazdović, Generalized canonical quantization of antisymmetric tensor gauge theory, *Phys. Lett. B* **214** (1988) 47-50.
- [45] M. Blagojević and M. Vasilić, Asymptotic symmetry and conserved quantities in the Poincaré gauge theory of gravity, *Class. Quant. Grav.* **5** (1988) 1241-1257.
- [46] M. Blagojević, I. Nikolić and M. Vasilić, Local Poincaré generators in the $R + T^2 + R^2$ theory of gravity, *Nuovo Cim. B* **101** (1988) 439-451.
- [47] M. Blagojević and M. Vasilić, Constraint algebra in Poincaré gauge theory, *Phys. Rev. D* **36** (1987) 1679-1684.
- [48] M. Blagojević and M. Vasilić, Extra gauge symmetries in a weak field approximation of an $R + T^2 + R^2$ theory of gravity, *Phys. Rev. D* **35** (1987) 3748-3759.
- [49] M. Blagojević and M. Vasilić, Hamiltonian analysis of extra gauge symmetries in an $R + T^2$ theory of gravity, *Phys. Rev. D* **34** (1986) 357-366.
- [50] M. Blagojević and R. Jengo, The electron - monopole interaction as a Wess-Zumino term, *Phys. Lett. B* **165** (1985) 343-346.
- [51] M. Blagojević, S. Meljanac and P. Senjanović, One-potential quantum field theory of spinless charges and monopoles: General formalism and the infrared problem, *Phys. Rev. D* **32** (1985) 1512-1519.
- [52] M. Blagojević, S. Meljanac and P. Senjanović, Radiation damping as a mechanism for partial confinement of magnetic monopoles, *Phys. Lett. B* **131** (1983) 111-115.

- [53] M. Blagojević and I. Nikolić, Hamiltonian dynamics of Poincaré gauge theory: General structure in the time gauge, *Phys. Rev. D* **28** (1983) 2455-2463.
- [54] M. Blagojević and I. A. Nikolić, Various aspects of the time gauge in Poincaré gauge theory, *Lett. Nuovo Cim.* **38** (1983) 77-82.
- [55] M. Blagojević and I. A. Nikolić, Hamiltonian structure of the theory of gravity with $R + T^2$ type of Lagrangian, *Nuovo Cim. B* **73** (1983) 258-272.
- [56] M. Blagojević, S. Meljanac, I. Picek and P. Senjanović, The infrared problem and radiation effects in monopole processes, *Nucl. Phys. B* **198** (1982) 427-440.
- [57] M. Blagojević, D. S. Popović and Dj. Živanović, Gravitational singularity in Poincaré gauge theory, *Phys. Lett. B* **109** (1982) 431-434.
- [58] M. Blagojević, S. Meljanac, I. Picek and P. Senjanović, Radiation effects in monopole pair creation, *Phys. Lett. B* **106** (1981) 408-409.
- [59] M. Blagojević and P. Senjanović, The infrared problem in the quantum field theory of magnetic monopoles, *Phys. Lett. B* **101** (1981) 277-281.
- [60] M. Blagojević, I. A. Nikolić, D. S. Popović and Dj. Živanović, Poincaré gauge theory of gravity and its Hamiltonian formulation, *Nuovo Cim. B* **62** (1981) 257-272.
- [61] M. Blagojević, Neutrino excitation of nucleon resonances in a relativistic quark model, *Nuovo Cim. A* **65** (1981) 15-38.
- [62] M. Blagojević and P. Senjanović, A one-potential formulation of the quantum field theory of magnetic poles, *Nucl. Phys. B* **161** (1979) 112-124.
- [63] M. Blagojević, D. Nešić, P. Senjanović, Dj. Šijački and Dj. Živanović, A new approach to the quantum field theory of electric and magnetic charge, *Phys. Lett. B* **79** (1978) 75-78.
- [64] D. Lalović, M. Blagojević and V. Zatarov, Binding of quarks in a unified gauge theory with two abelian massless gluons, *Lett. Nuovo Cim.* **21** (1978) 73-76.
- [65] M. Blagojević, Electromagnetic Inelastic form-factors of processes $eN \rightarrow eN^*$ in a relativistic quark model, *Prog. Theor. Phys.* **54** (1975) 460-472.
- [66] M. Blagojević, Relativistic quark model and scaling, *Nuovo. Cim.* **13** (1975) 437-440.
- [67] M. Blagojević and D. Lalović, Electromagnetic elastic nucleon form factors in a relativistic quark model, *Prog. Theor. Phys.* **51** (1974) 1152-1158.
- [68] M. Blagojević and D. Lalović, On the Pomeranchuk singularity in the Veneziano model and unitarity, *Nucl. Phys. B* **28** (1971) 118-124.

C. Conferences

- [69] B. Cvetković and M. Blagojević, Supersymmetric 3D gravity with torsion: asymptotic symmetries and black hole stability, talk at *V International Symposium on Quantum Theory and Symmetries*, Spain 2007, *Journal of Physics: Conference series* **128** (2008) 012001.
- [70] B. Cvetković and M. Blagojević, Supersymmetric 3D black hole with torsion, talk at *Fundamental interactions – Serbia 2007* (Fruska Gora, 2007), *J. Res. Phys.* **31** (2007) 102-105.

- [71] M. Blagojević and B. Cvetković, The influence of torsion on the black hole entropy in 3D gravity, talk at IV Summer School in Modern Mathematical Physics, Belgrade, Serbia, 3-14 September, 2006; *SFIN A* **1** (2007) 51-62.
- [72] M. Blagojević and B. Cvetković, Asymptotic charges in 3d gravity with torsion, talk at *Fourth Meeting on Constrained Dynamics and Quantum Gravity*, Sardinia, Italy, 12-16 September, 2005; *Journal of Physics: Conference Series* **33** (2006) 248-253.
- [73] M. Blagojević and B. Cvetković, Conserved charges in 3d gravity with torsion, invited talk at the 8th Workshop 'What Comes Beyond the Standard Models' Bled, Slovenia, 19-29 July 2005; *Bled workshops in physics*, Vol.6, No. 2, DMFA-Založništvo, Ljubljana, Dec. 2005, pp. 8-16, ed. N. Mankoc-Borstnik, H. Nielsen, C. Froggatt and D. Lukman.
- [74] M. Blagojević and M. Vasilic, Anti-de Sitter 3-dimensional gravity with torsion, invited talk at Workshop on Quantum Gravity and Noncommutative Geometry, Universidade Lusófona, Lisbon, 20-23 July 2004; *Mod. Phys. Lett. A* **17-18** (2005) 1285-1298, [gr-qc/0412072](#).
- [75] M. Blagojević, Three lectures on Poincaré gauge theory, invited lecture at II Summer School in Modern Mathematical Physics, Kopaonik, Yugoslavia, 1-12 September 2002; *SFIN A* **1** (2003) 147-172, [gr-qc/0302040](#).
- [76] M. Blagojević, Hamiltonian structure and symmetries of Poincaré gauge theory, invited talk at German Physical Society Meeting, Dresden, 20-24 March 2000; *Ann. Phys. (Leipzig)* **10** [5] (2001) 367-391, [hep-th/0006031](#).
- [77] M. Blagojević, D. Popović and B. Sazdović, 2D induced gravity from WZNW system, talk at The eight Marcell Grossmann meeting, Jerusalem, 22-27 June 1997, Proceedings, editors T. Piran and R. Ruffini (World Scientific, Singapore, 1999), pp. 928-930.
- [78] M. Blagojević and B. Sazdović, Gauge connection between the WZNW system and 2D induced gravity, invited talk at 11th International Conference on Problems of Quantum Field Theory, Dubna, Russia, 13-17 July 1998, in memory of D. I. Blokhintsev, [hep-th/9809150](#).
- [79] M. Blagojević, Conservation laws in Poincaré gauge theory, invited talk at Conference on Gauge Theories of Gravitation, Jadwisin, Poland, 4-10 September 1997; *Acta Phys. Polon. B* **29** (1998) 881-890, [hep-th/9712229](#).
- [80] M. Blagojević and T. Vukašinac, BRST analysis of gauge theories based on nonlinear algebras in 2D, invited talk at Danube Workshop '95, Belgrade, Yugoslavia, June 1995, [hep-th/9503148](#).
- [81] M. Blagojević, The Liouville theory and $SL(2, R)$ symmetry, invited talk at Danube Workshop '93, Belgrade, Yugoslavia, June 1993, [hep-th/9311031](#).
- [82] M. Blagojević and B. Sazdović, Covariant quantization of the bosonic string field theory, talk at the VI Adriatic Meeting on Particle Physics, Dubrovnik 1989; *Modern Trends in Particle Physics '83, Nuclear. Phys. B: Proc. Suppl.* **15** (1990) 57-66.
- [83] M. Blagojević, Soft photon radiation effects in monopole processes, invited talk at Int. School of Elementary Particle Physics, Duilovo-Split, 1986; Trieste preprint IC/86/320-mc (microfiche).

- [84] M. Blagojević, Dj. Šijački and A. Šokorac, editors, Proceedings of the Yugoslav Particle Physics Meeting, dedicated to P. Senjanović, Belgrade, December 9–10, 1985; *Fizika* **18** Suppl. 1 (1986) 1-118.
- [85] M. Blagojević, Radiation effects in the quantum field theory of electric and magnetic charge, invited talk at the Yugoslav Particle Physics Meeting, dedicated to P. Senjanović, Belgrade, December 9–10, 1985; *Fizika* **18** Suppl. 1 (1986) 88-98.
- [86] M. Blagojević and I. Nikolić, Poincaré gauge theory of $R + R^2 + T^2$ type in Dirac's Hamiltonian formalism, talk at the IV Adriatic Meeting on Particle Physics, Dubrovnik 1983; *Frontiers in Particle Physics '83* (World Scientific, Singapore, 1984), p. 396-406.