



Goran S. Djordjević (Faculty, of Science, University of Nis, Serbia)

Corresponding member since 2018.

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Goran S. Djordjević was born on 30.08.1963 in Niš, in the Republic of Serbia (The Socialistic Federal Republic of Yugoslavia). He is currently a Full Professor in Theoretical Physics at the Faculty of Sciences and Mathematics, University of Niš, Serbia. He graduated in physics from the University of Nis in 1989. He obtained an MSc and a Ph.D. in Theoretical Physics at the University of Belgrade, in 1995 and in 1999, respectively.

He was a fellow of the Steklov Institute, RAS Moscow in 1996, and a visiting researcher at the LMU and MPI Munich, from 2000 until 2003. He has been a visiting researcher at CERN TH 2012- and a visiting professor at the University of Banja Luka, B&H since 2014. He has been a member of the Board of the Doctoral School at the University of Craiova, Romania, since 2018.

Research Interests: His fields of research interest cover: Quantum mechanics and Cosmology, Real and p-adic tachyons dynamics, Inflation and String cosmology; Classical and Quantum Gravity, Physics Education - Gifted Pupils. During last 8 years, his research interest has been focussed on non-linear dynamics generated by a class of DBI Lagrangians and their applications in Cosmology (Theory of Inflation), String and Quantum Field Theory. That also includes local equivalence, path integral formulation and quantization of non-quadratic vs quadratic systems, with and without tachyon fields.

Scientific Results: He published over 150 papers in international peer-reviewed journals, chapters in monographs, proceedings, and books; about 40 papers in SCI Journals and international monographs with almost 930 citations (by Google Scholar and by the end of June 2023). He participated in 5 national projects, and more than twenty international projects; he was the principal leader in 15 of them. So far, he has been the mentor of 3 doctoral and 7 master theses.

Organizational work: Goran Djordjevic is a member of the European Physical Society: Council member (2010-2022, Executive Committee member (2012-2014), chairman and member of several EPS Committees. He is also a member of the Balkan Physical Union: a member of the BPU Council (2006-). The Member of the Executive Committee (2009-2012), the vice president (2012-2018), and the president (2018-2022). Together with Julius Wess he established the SEENET-MTP Network and served as the coordinator (2003-2009) and as the executive director (2010-2017, 2018-). He is the Co-chairman of the CERN-SEENET Ph.D. Program Committee (2015-), the president of the SEENET-MTP Centre (2017-).

Fellowships and Editorials: He had a fellowship of the Russian Academy of Sciences 1996-97, a DFG fellowship 2003-2004 LMU-Munich - LS Prof. Wess, a DAAD fellow from 2003 to 2004 at the Albert-Ludwigs University, a CBPF fellow in 2007 in Rio de Janeiro, Brazil, and a CERN fellow 2012-2013 in the Theoretical Physics Group. He has been the editorial board member, referee, and a guest editor in many international journals such as: Frontiers in Astronomy and Space Sciences, International Journal of Cosmology, Astronomy and Astrophysics (IJCAA), EPJ Plus, The Central European Journal of Physics, International Journal of Modern Physics A, International Journal of Modern Physics B, Modern Physics Letters A, Facta Universitatis, Filomat, Romanian Journal of Physics, Serbian Astronomical Journal, World Scientific and others. He has served as the referee in the COST Review Panel, the Austrian Academy of Science, and the Romanian Space Agency.

Other activities: Goran Djordjevic participated in more than 70 Conferences and Schools and was an invited lecturer at 35 International Conferences. He was the principal organizer of 15 International Conferences and Schools, and he was the co-organizer of 10 more. He has been the Chair of Theoretical Physics and Applications, at the University of Nis since 2006.

Five selected papers.

[1] N. Bilić, D.D. Dimitrijević, G.S. Djordjevic, M. Milošević and M. Stojanović, Tachyon inflation in the holographic braneworld, JCAP 08 (2019) 034

- [2] N. Bilic, S. Domazet and G.S. Djordjevic, Tachyon with an inverse power-law potential in a braneworld cosmology, *Class. Quant. Grav.* 34 (2017) 16, 165006
- [3] G. S. Djordjevic, Lj. Nestic and D. Radovancevic, Two-oscillator Kantowski-Sachs model of the Schwarzschild black hole interior, *Gen. Rel. Grav.* 48 (2016) 106
- [4] D. D. Dimitrijevic G.S. Djordjevic and Lj. Nestic, Quantum cosmology and tachyons, *For. der Phys.* 56 (2008) 4-5, 412
- [5] G.S. Djordjevic, B. Dragovich, Lj. Nestic and I. V. Volovich, p-Adic and Adelic Minisuperspace Quantum Cosmology, *IJMPA*, 17 (2002) 1413.

Niš, June 2023.