



### **Branislav Sazdović**

Full member of Serbian Academy of Nonlinear Sciences since 2015.

Branislav Sazdović was born in 1951 in Belgrade. As a student of the third and fourth grades of the Mathematical High School, he was a member of the Yugoslav teams at two International Mathematical Olympiads: 1969 in Bucharest and 1970 in Budapest. At the Olympiad in Budapest, he won the second prize.

He graduated in 1975 from the Department of Technical Physics of the Faculty of Electrical Engineering in Belgrade. During his studies at the Meetings of students of the Electrotechnical faculties of Yugoslavia, he participated three times in the

mathematics competition and he was awarded with the first prize all three times.

In 1975, he got a job at the Institute of Physics and enrolled in postgraduate studies in theoretical physics at the Faculty of Natural Sciences in Belgrade. In 1978, he defended his master's thesis and 1982 he defended Doctoral dissertation. He did both theses under the supervision of Dr. B. Dragović, with whom he received the annual prize of the Institute of Physics for 1983 year.

He was elected to the title of Research Associate in 1983, to the title of Senior Research Associate in 1988. and became a Research Fellow in 1999.

**Working Experience:** - Research Assistant (1975-1981) at Insitute of Physics (University of Belgrade), - Research Assistant (1981-1983) at Joint Institute for Nuclear Research (Dubna, USSR) - Research Associate (1983-1988) at Insitute of Physics (University of Belgrade), - Visiting Assistant Professor Research (1986-1987) at Brown University, Providence, USA - Senior Research Associate (1988-1999) at Insitute of Physics (University of Belgrade), - Visiting Associate Professor Research (1989) at Brown University, Providence, USA - Research Fellow (1999-) at Insitute of Physics (University of Belgrade), - Full professor (2008-) at Faculty of Physics (University of Belgrade)

**Participation in scientific projects and international cooperation:**

Since December 1981. until June 1983, Dr. B. Sazdović stayed at the Joint Institute for Nuclear research in Dubna (USSR) in the Bogoliubov Laboratory for Theoretical Physics.

In the period 1986/87, for one year he was Visiting Assistant Professor Research at Brown University (Providence, USA), and in 1989 he was Visiting Associate Professor Research at the same university.

Dr. B. Sazdović was the Principal Investigator of the joint Yugoslav-American investigation project (NSF), *Investigations in superstrings theory* (1991-1993).

From 2002 to 2005, he managed the research project of the Ministry for Science of the Republic of Serbia No. 1486, entitled *Gauge theories of gravity: symmetries and dynamics*.

**Awards:**

- Second prize at the XII International Mathematical Olympiad, Budapest, 1970.
- October Award of the City of Belgrade for the best thesis, 1975
- Annual Award of the Institute of Physics for Research in 1983

**Scientific activity:** Dr. B. Sazdović's scientific activity refers to the quantum theories of particles, fields and strings. He published 68 works in leading international journals.

Research interests: - Superstring theory (T-duality, Dp-branes, non-commutativity, string field theory) - Supersymmetries, BRST quantization - Neutrino oscillations

**Pedagogical activity:**

- Dr. B. Sazdović for two years (1994/95 and 1995/96) held the course *Quantum theoretical physics* at the Faculty of Physics in Belgrade.
- In doctoral studies in theoretical physics at the Faculty of Physics, he taught courses *Quantum gauge theory* and *String theory*.

**Five selected publications:**

1. B. T. Sazdović and O. V. Tarasov, *Renormalization of  $N=2,4$  Yang-Mills Theories with Soft Breaking of an Extended Supersymmetry by  $N=1$  Mass Term*, Nucl.Phys. **B250** (1985) 39-60 .

2. B. Sazdović, *Equivalence of Different Formulations of the Free Ramond String Field Theory*, Phys.Lett. **195B** (1987) 536-540.
3. M. Blagojević and B. Sazdović, *Off-shell BRST Quantization of the Bosonic String Field Theory*, Phys.Lett. **223B** (1989) 331-335 .
4. B. Sazdović and M. Vasilić, *Oscillations of neutrino velocity*, JHEP 03 (2013) 047.
5. Lj. Davidović, B. Nikolić and B. Sazdović *Canonical approach to the closed string non-commutativity*, Eur. Phys. J. C (2014) 74:2734.