

PERSONAL INFORMATION:

- Name and title: Silvije Domazet, PhD
- Gender: Male
- Date of birth: April 21st 1980.
- Place of Birth: Split, Croatia
- Nationality: Croatian
- Current professional position: Postdoc at Division of Theoretical Physics, Rudjer Boskovic Institute, Zagreb, Croatia

EDUCATION:

- PhD, Theoretical Physics, July 2013. University of Zagreb, Croatia, Faculty of Science
- BSc, Physics, December 2006. University of Zagreb, Croatia, Faculty of Science

WORK EXPERIENCE:

- 2013- Postdoc at Division of Theoretical Physics Rudjer Boskovic Institute, Zagreb, Croatia
- 2007-2013 Young researcher, Assistant, Rudjer Boskovic Institute, Zagreb, Croatia

RESEARCH AREAS:

- Cosmology, Modified gravity, $f(R)$ theories, Inflation, Quantum field theory in curved space-time, Effective action in quantum gravity, Renormalization group corrections to general relativity, Analog gravity, Braneworld cosmology, Massive gravity

VISITS:

- April 2016. , working visit (host: T. Prokopec) , Institute for Theoretical Physics, Utrecht, Netherlands
- November 2015. , working visit (host: T. Prokopec) , Institute for Theoretical Physics, Utrecht, Netherlands
- November 2010. , working visit (host: V. Radovanovic), University of Belgrade, within the framework of Croatian-Serbian bilateral project "Theories of modified gravity and the accelerated expansion of the Universe"

TALKS:

- Talk given at „9th Vienna Central European Seminar on Particle Physics and Quantum Field Theory: Dark Matter, Dark Energy, Black Holes and Quantum Aspects of the Universe“, 29.11.-02.12.2012 Vienna, Austria,

Title of presentation: „Renormalization group scale-setting in astrophysical systems“

- Talk given at „2nd Mediterranean Conference on Classical and Quantum Gravity“, 09.06.-15.06.2013. Veli Lošinj, Croatia

Title of presentation: „Renormalization group scale-setting and modifications of gravitational interactions“

CONFERENCES AND SCHOOLS:

- Italy, Trieste, SISSA- Specialized course “D-branes and Supergravity” 2007.
- Czech Republic, Prague, Charles University- Specialized course “Renormalization” 2007.
- Hungary, Budapest- Beyond the SM at the dawn of LHC era 2007.
- Croatia, Veli Lošinj- Workshop on Black Holes in General Relativity and String Theory 2008.
- Austria, Vienna- Intensive course “Classical and Quantum aspects of Cosmology” 2009.
- Austria, Vienna, 9th Vienna Central European Seminar on Particle Physics and Quantum Field Theory: Dark Matter, Dark Energy, Black Holes and Quantum Aspects of the Universe, 2012.
- Croatia, Veli Lošinj, 2nd Mediterranean Conference on Classical and Quantum Gravity, 2013.
- Italy, Como- „SIGRAV school in Contemporary Relativity and Gravitational Physics-XI Edition; Gravity and Quantum“, 2014.
- Italy, La Thuile, Aosta- Recontres de Moriond Cosmology Session, 2016.

PROJECTS:

- 2007-2013. investigator on research project “Fundamental interactions in particle physics and cosmology”, Croatian Ministry of Science Education and Sport
- 2015-2017. investigator on research project “Towards quantum gravity: non-comutative geometry, field theory and cosmology”, Croatian Science Foundation Research Project
- 2010-2011 investigator on Croatian-Serbian bilateral project “Theories of modified gravity and the accelerated expansion of the Universe”
- 2016-2017 investigator on Croatian-Serbian bilateral project “Aspects of mathematical physics in modern gravity and cosmology ”

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES:

- Member of the Management Committee of the COST action “Cosmology and Astrophysics Network for Theoretical Advances and Training Actions “ (CANTATA); (involved with WorkGroup 1 :” Modified gravity” within the action)

PUBLISHED PAPERS:

- S. Domazet and H. Štefančić.
Renormalization Group scale-setting in astrophysical systems.
Phys. Lett. B **703** 1: 1-6, 2011.
- N. Bilić, S. Domazet and B. Guberina.
Vacuum fluctuations of the supersymmetric field in curved background.
Phys. Lett. B **707** 1: 221-227, 2012.
- S. Domazet and H. Štefančić.
Renormalization group scale-setting from the action—a road to modified gravity theories.
Class. Quant. Grav. **29**, 23; 35005-1-35005-8, 2012.
- S. Domazet, V. Radovanović, M. Simonović and H. Štefančić.
On analytical solutions of $f(R)$ modified gravity theories in FLRW cosmologies
Int. J. Mod. Phys. D **22**:1350006-1-1350006-18, 2013.
- N. Bilić, S. Domazet and D. Tolić,
Analog geometry in an expanding fluid from AdS/CFT perspective,
Phys. Lett. B **743** : 340-346, 2015.

UNPUBLISHED PAPERS:

- S. Domazet and T. Prokopec : “A photon propagator on de Sitter in covariant gauges”,
arXiv:1401.4329 [gr-qc]

AWARDS AND RECOGNITIONS:

- Annual Award of Director General of Ruđer Bošković Institute for distinguished publication 2011.

LANGUAGES:

- Cambridge Certificate in Advanced English (CAE)

COMPUTER SKILLS:

- Use of MS Office tools, Latex, Mathematica (to a certain extent)

TEACHING:

- Teaching assistant, General Physics, Academic years 2011/2012, 2012/2013, 2013/2014,
Faculty of electrical engineering and computing, University of Zagreb