

PERSONAL INFORMATION

Constantin BIZDADEA

<http://cis01.central.ucv.ro/physics/ro/catedra1/cb/cbizdadea.html>

Sex Male | Date of birth | Nationality Romanian

WORK EXPERIENCE

March 2000 →

Professor

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania, <http://www.ucv.ro/>

- Teaching and research
- Sector Higher-education/University/Academic staff
- ISCO-08 code 231

October 1998–February 2000

Associate Professor

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania, <http://www.ucv.ro/>

- Teaching and research
- Sector Higher-education/University/Academic staff
- ISCO-08 code 231

October 1995–September 1998

Lecturer

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania, <http://www.ucv.ro/>

- Teaching and research
- Sector Higher-education/University/Academic staff
- ISCO-08 code 231

March 1991–September 1995

Assistant lecturer

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania, <http://www.ucv.ro/>

- Teaching and research
- Sector Higher-education/University/Academic staff
- ISCO-08 code 231

September 1986–February 1991

Physicist

Institute for Nuclear Energy Reactors – IRNE, 1 Campului Str., Mioveni, 115400, Romania, <http://www.nuclear.ro/en>

- Research & Development
- Sector Technology, innovation, research and development
- ISCO-08 code 211

EDUCATION AND TRAINING

February 1992–July 1996

Ph.D. in Physics

ISCED 2011 level

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania, <http://www.ucv.ro/>

844

- Advanced research qualification in Theoretical Physics, Ph.D. thesis title: *Quantization of field theories with symmetries*

September 1985–June 1986

M.Sc. in Nuclear Physics

ISCED 2011 level

University of Bucharest, 34–36 M. Kogălniceanu Blvd., Bucharest, 5th sector, 050107, Romania, <http://www.unibuc.ro/>

747

- Advanced academic knowledge, skills and competencies completed by intermediate research qualification in Nuclear Physics

September 1981–June 1985

B.Sc. in Physics

ISCED 2011 level

University of Craiova, 13 Al. I. Cuza Str., Craiova, 200585, Romania,
<http://www.ucv.ro/>

645

- Intermediate academic knowledge, skills and competencies in Physics

LANGUAGE SKILLS

Mother tongue
 Other language

Romanian

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | B2 | B2 | B2 | B2 | B2 |

Interlingua Centre for Modern Languages, University of Craiova

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

PROFESSIONAL INFORMATION

| | |
|--|--|
| Publications in ISI-rated journals | 75 |
| Invited lectures at international conferences, workshops, etc. | >20 |
| Scientific monographs | 4 |
| Academic textbooks | 5 |
| Honours and awards | “Horia Hulubei” Prize of the Romanian Academy for 2006 (awarded in December 2008) |
| Citations | > 150 positive citations in ISI-rated journals excluding self-citations |
| <i>h</i> -index (Hirsch) | 14 (Web of Science) |
| Research grants and programmes won by competition | Coordinator (director/scientist in-charge) of 1 international and 7 national scientific research grants/programmes |
| Membership | Member of the Romanian Physical Society, member of the Romania-CERN Committee (2005–2011), member of the Physics Commission of CNATDCU (2006–2010) |
| Reviewer | Applied Mathematics and Computation, European Physical Journal C |
| Ph.D. supervisor | Since 2000 |

ANNEXES

- Publications in ISI-rated journals;
- Research grants/programmes won by competition as director/scientist in-charge.

ANNEX 1 – Publications in ISI-rated journals

1. C. Bizdadea, S. O. Saliu, Gauge-invariant massive BF models, *The European Physical Journal C* **76** (2016) 65 (28 pag.)
2. C. Bizdadea, S. O. Saliu, Second-order Lagrangian formulation of linear first-order field equations, *Romanian Journal of Physics* **61** (2016) 27–36
3. C. Bizdadea, S. O. Saliu, M. Toma, Consistent interactions between dual formulations of linearized gravity, *Romanian Journal of Physics* **58** (2013) 469–484
4. C. Bizdadea, M. T. Miauta, S. O. Saliu, M. Toma, Consistent interactions between dual formulations of linearised gravity in terms of massless tensor fields with mixed symmetries (k,1) and (2,2), *Romanian Journal of Physics* **58** (2013) 459–468
5. C. Bizdadea, M. T. Miauta, S. O. Saliu, L. Stanciu-Oprean, Special interactions between a DFLG in terms of a mixed symmetry tensor field (k,1) and a topological BF model, *Romanian Journal of Physics* **58** (2013) 446–458
6. C. Bizdadea, E. M. Cioroiaru, M. T. Miauta, S. O. Saliu, S. C. Sararu, L. Stanciu-Oprean, Towards a full classification of consistent interaction vertices in topological BF theories, *Romanian Journal of Physics* **58** (2013) 434–445

7. C. Bizdadea, M. M. Barcan, E. M. Cioroianu, M. T. Miauta, S. O. Saliu, Another relationship between first- and second-order systems, *Romanian Journal of Physics* **58** (2013) 428–433
8. C. Bizdadea, S. O. Saliu, L. Stanciu-Oprean, Dual linearized gravity coupled to BF-type topological field theories in $D=7$, *Modern Physics Letters A* **27** (2012) 1250137 (10 pag.)
9. C. Bizdadea, M. M. Barcan, M. T. Miauta, S. O. Saliu, Second-order Lagrangian dynamics in the phase-space: some examples, *Modern Physics Letters A* **27** (2012) 1250062 (7 pag.)
10. C. Bizdadea, E. M. Cioroianu, S. C. Sararu, O. Balus, Irreducible analysis of reducible second-class constraints: The example of gauge-fixed three- and two-forms with Stueckelberg coupling, *Romanian Reports in Physics* **62** (2010) 3–17
11. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, E. M. Babalic, Yes-go cross-couplings in collections of tensor fields with mixed symmetries of the type $(3,1)$ and $(2,2)$, *International Journal of Modern Physics A* **25** (2010) 1211–1238
12. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, E. M. Babalic, Dual linearized gravity in $D=6$ coupled to a purely spin-two field of mixed symmetry $(2,2)$, *Fortschritte der Physik* **58** (2010) 341–363
13. C. Bizdadea, E. M. Cioroianu, A. Danehkar, M. Iordache, S. O. Saliu, S. C. Sararu, Consistent interactions of dual linearized gravity in $D=5$: couplings with a topological BF model, *The European Physical Journal C* **63** (2009) 491–519
14. C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, S. C. Sararu, O. Balus, Reducible second-class constraints of order L : An irreducible approach, *Nuclear Physics B* **812** (2009) 12–45
15. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, M. Iordache, Four-dimensional couplings among BF and massless Rarita–Schwinger theories: a BRST cohomological approach, *The European Physical Journal C* **58** (2008) 123–149
16. C. Bizdadea, D. Cornea, S. O. Saliu, No cross-interactions among different tensor fields with the mixed symmetry $(3,1)$ intermediated by a vector field, *Journal of Physics A: Mathematical and Theoretical* **41** (2008), 285202 (12 pag.)
17. C. Bizdadea, E. M. Cioroianu, D. Cornea, E. Diaconu, S. O. Saliu, S. C. Sararu, Interactions for a collection of spin-two fields intermediated by a massless p-form, *Nuclear Physics B* **794** (2008) 442–494
18. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, O. Balus, An irreducible approach to second-order reducible second-class constraints, *Journal of Physics A: Mathematical and Theoretical* **40** (2007), 14537–14554
19. C. Bizdadea, E. M. Cioroianu, S. C. Sararu, Couplings between a collection of BF models and a set of three-form gauge fields, *International Journal of Modern Physics A* **21** (2006) 6477–6490
20. C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, S. C. Sararu, On the generalized Freedman-Townsend model, *Journal of High Energy Physics JHEP* **0610** (2006) 004 (50 pag.)
21. C. Bizdadea, C. C. Ciobirca, I. Negru, S. O. Saliu, Couplings between a single massless tensor field with the mixed symmetry $(3,1)$ and one vector field, *Physical Review D* **74** (2006) 045031
22. C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, Interactions between a massless tensor field with the mixed symmetry of the Riemann tensor and a massless vector field, *Journal of Physics A: Mathematical and General* **39** (2006) 10549–10564
23. C. Bizdadea, E. M. Cioroianu, D. Cornea, S. O. Saliu, S. C. Sararu, No interactions for a collection of spin-two fields intermediated by a massive Rarita-Schwinger field, *The European Physical Journal C* **48** (2006) 265–289
24. C. Bizdadea, E. M. Cioroianu, A. C. Lungu, S. C. Sararu, No cross-interactions between the Weyl graviton and the massless Rarita-Schwinger field, *Annalen der Physik* **15** (2006) 416–433
25. C. Bizdadea, E. M. Cioroianu, A. C. Lungu, No interactions for a collection of Weyl gravitons intermediated by a scalar field, *International Journal of Modern Physics A* **21** (2006) 4083–4126
26. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, Couplings of a collection of BF models to matter theories, *The European Physical Journal C* **41** (2005) 401–420
27. C. Bizdadea, E. M. Cioroianu, A. C. Lungu, S. O. Saliu, No multi-graviton theories in the presence of a Dirac field, *Journal of High Energy Physics JHEP* 0502 (2005) 016 (38 pag.)
28. C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, Interactions of a massless tensor field with the mixed symmetry of the Riemann tensor. No-go results, *The European Physical Journal C* **36** (2004) 253–270
29. C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, I. Negru, S. O. Saliu, S. C. Sararu, Interactions of a single massless tensor field with the mixed symmetry $(3,1)$. No-go results, *Journal of High Energy Physics JHEP* **0310** (2003) 019 (63 pag.)
30. C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, Four-dimensional couplings among BF and matter theories from BRST cohomology, *Annalen der Physik* **12** (2003) 543–571
31. C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, Hamiltonian BRST deformation of a class of n -dimensional BF-type theories, *Journal of High Energy Physics JHEP* **0301** (2003) 049 (24 pag.)
32. C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, Lagrangian interactions within a special class of covariant mixed-symmetry type tensor gauge fields, *The European Physical Journal C* **27** (2003) 457–465
33. C. Bizdadea, S. O. Saliu, Lagrangian $Sp(3)$ BRST symmetry for Yang-Mills theory, *Modern Physics Letters A* **17** (2002) 269–277
34. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Hamiltonian cohomological derivation of four-dimensional nonlinear gauge theories, *International Journal of Modern Physics A* **17** (2002) 2191–2210
35. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Irreducible Freedman-Townsend vertex and Hamiltonian BRST cohomology, *Annalen der Physik* **11** (2002) 151–161
36. C. Bizdadea, Consistent interactions in the Hamiltonian BRST formalism, *Acta Physica Polonica B* **32** (2001) 2843–2862
37. C. Bizdadea, M. T. Miauta, S. O. Saliu, Nonabelian interactions from Hamiltonian BRST cohomology, *The European*

- Physical Journal C* **21** (2001) 577–585
38. C. Bizdadea, E. M. Cioroianu, M. T. Miauta, I. Negru, S. O. Saliu, Lagrangian cohomological couplings among vector fields and matter fields, *Annalen der Physik* **10** (2001) 921–934
 39. C. Bizdadea, M. T. Miauta, S. O. Saliu, On the Lagrangian derivation of the interactions between a Chern-Simons term and a complex scalar field, *Acta Physica Polonica B* **32** (2001) 1225–1231
 40. C. Bizdadea, S. O. Saliu, Lagrangian Sp(3) BRST symmetry for irreducible gauge theories, *International Journal of Modern Physics A* **16** (2001) 2975–3009
 41. C. Bizdadea, M. T. Miauta, S. O. Saliu, Hamiltonian BRST interactions in abelian theories, *The European Physical Journal C* **19** (2001) 191–200
 42. C. Bizdadea, L. Saliu, S. O. Saliu, Two-dimensional nonlinear gauge theories from Hamiltonian BRST cohomology, *Europhysics Letters* **53** (2001) 577–583
 43. C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, Cohomological derivation of the couplings between an abelian gauge field and matter fields, *Annalen der Physik* **10** (2001) 415–427
 44. C. Bizdadea, Note on two-dimensional nonlinear gauge theories, *Modern Physics Letters A* **15** (2000) 2047–2055
 45. C. Bizdadea, On the cohomological derivation of topological Yang-Mills theory, *Europhysics Letters* **52** (2000) 123–129
 46. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Irreducible Hamiltonian BRST-anti-BRST symmetry for reducible systems, *Journal of Physics A: Mathematical and General* **33** (2000) 6901–6923
 47. C. Bizdadea, S. O. Saliu, Consistent Hamiltonian interactions: the example of Yang-Mills theories, *Physica Scripta* **62** (2000) 261–267
 48. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Freedman-Townsend vertex from Hamiltonian BRST cohomology, *Classical and Quantum Gravity* **17** (2000) 2007–2016
 49. C. Bizdadea, A. Constantin, S. O. Saliu, Note on irreducible approach to reducible second-class constraints, *Europhysics Letters* **50** (2000) 169–174
 50. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Irreducible Hamiltonian BRST symmetry for reducible first-class systems, *International Journal of Modern Physics A* **15** (2000) 3001–3017
 51. C. Bizdadea, L. Saliu, S. O. Saliu, Chapline-Manton interaction vertices and Hamiltonian BRST cohomology, *International Journal of Modern Physics A* **15** (2000) 893–904
 52. C. Bizdadea, L. Saliu, S. O. Saliu, On Chapline-Manton couplings: a cohomological approach, *Physica Scripta* **61** (2000) 307–310
 53. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Massive Yang-Mills theory with no Dirac bracket, *Il Nuovo Cimento A* **112** (1999) 1033–1039
 54. C. Bizdadea, M. G. Mocioaca, S. O. Saliu, On the “irreducible” Freedman-Townsend vertex, *Physics Letters B* **459** (1999) 145–149
 55. C. Bizdadea, E. M. Cioroianu, S. O. Saliu, Irreducible Hamiltonian BRST approach to topologically coupled abelian forms, *Physica Scripta* **60** (1999) 120–130
 56. C. Bizdadea, S. O. Saliu, Irreducible antifield-BRST approach to reducible gauge theories, *Journal of Physics A: Mathematical and General* **32** (1999) 3919–3929
 57. C. Bizdadea, I. Negru, S. O. Saliu, Irreducible Hamiltonian approach to the Freedman-Townsend model, *International Journal of Modern Physics A* **14** (1999) 2537–2550
 58. C. Bizdadea, I. Negru, S. O. Saliu, Irreducible Hamiltonian BRST analysis of Stueckelberg coupled p-form gauge theories, *Classical and Quantum Gravity* **16** (1999) 225–243
 59. C. Bizdadea, I. Negru, S. O. Saliu, Irreducible antifield BRST-anti-BRST formalism for reducible gauge theories, *International Journal of Modern Physics A* **14** (1999) 359–386
 60. C. Bizdadea, M. G. Mocioaca, S. O. Saliu, Extrafields in the BRST quantization of p-form generalization to massive Chern-Simons theory, *Il Nuovo Cimento B* **114** (1999) 611–620
 61. C. Bizdadea, S. O. Saliu, Irreducible antifield formalism for reducible constrained Hamiltonian systems, *Journal of Physics A: Mathematical and General* **31** (1998) 8805–8822
 62. C. Bizdadea, S. O. Saliu, A note on “irreducible” p-form gauge theories with Stueckelberg coupling, *Europhysics Letters* **41** (1998) 129–134
 63. C. Bizdadea, S. O. Saliu, E. N. Timneanu, On the irreducible BRST quantization of spin-5/2 gauge fields, *Classical and Quantum Gravity* **15** (1998) 501–507
 64. C. Bizdadea, M. Iordache, S. O. Saliu, E. N. Timneanu, An irreducible BRST approach to topological Yang-Mills theory, *Helvetica Physica Acta* **71** (1998) 262–273
 65. C. Bizdadea, S. O. Saliu, Irreducible antifield analysis of p-form gauge theories, *Physics Letters B* **425** (1998) 97–103
 66. C. Bizdadea, S. Balan, S. O. Saliu, A covariant BRST approach of self-dual p-forms without extrafields, *Journal of Physics A: Mathematical and General* **30** (1997) 5997–6007
 67. C. Bizdadea, S. O. Saliu, The BRST quantization of first-order systems, *Helvetica Physica Acta* **70** (1997) 590–597
 68. C. Bizdadea, Some remarks on the BRST quantization of massive Abelian two-form gauge fields, *Physical Review D* **53** (1996) 7138–7142
 69. C. Bizdadea, The Hamiltonian BRST quantization of massive Abelian p-form gauge fields, *Journal of Physics A: Mathematical and General* **29** (1996) 3985–3991

70. C. Bizdadea, S. O. Saliu, The antifield BRST-anti-BRST quantization of massive and nonmassive Abelian three-form gauge fields, *International Journal of Modern Physics A* **11** (1996) 3523–3547
71. C. Bizdadea, S. O. Saliu, A note on the BRST quantization of “reducible” second-class constrained systems, *Europhysics Letters* **35** (1996) 567–572
72. C. Bizdadea, S. O. Saliu, The BRST quantization of massive Abelian two-form gauge fields, *Physics Letters B* **368** (1996) 202–208
73. C. Bizdadea, S. O. Saliu, Extravariabiles in the BRST quantization of second-class constrained systems. Existence theorems, *Nuclear Physics B* **469** (1996) 302–332
74. C. Bizdadea, S. O. Saliu, The Hamiltonian BRST formalism for massive abelian vector fields, *Europhysics Letters* **32** (1995) 307–312, Erratum-ibid **33** (1996) 171
75. C. Bizdadea, S. O. Saliu, The BRST quantization of second-class constrained systems, *Nuclear Physics B* **456** (1995) 473–493

ANNEX 2 – Research grants/programmes won by competition as director/scientist in-charge

1. 6th Framework Programme (FP6), Marie Curie Research Training Network (MC-RTN), MRTN-CT-2004-005104/2004, Constituents, Fundamental Forces and Symmetries of the Universe, November 2004–October 2008 (scientist in-charge with the Romanian node, University of Craiova)
2. CNCSIS, type A, code 581/2007, Topological field theories, October 2007–September 2009 (director)
3. CEEEX, Module I, Complex R&D projects, 2-CEx06-11-92/19.09.2006, Fundamental interactions and geometrodynamics, September 2006–September 2008 (director)
4. CEEEX, Module I, Complex R&D projects, CEEEX 05-D11-49/7.10.2005, Advanced researches in quantum field theory and gravitation, October 2005–September 2008 (scientist in-charge with Partner 2—University of Craiova)
5. CNCSIS, type A, code 305/2004, Interactions in theories with symmetric tensors of rank two, October 2004–September 2007 (director)
6. CNCSIS, type A, code 943/2002, Field theories with nonlinear gauge algebras, October 2002–September 2003 (director)
7. CNCSIS, type A, code 140/2001, Lagrangian and Hamiltonian interactions in elementary particle theory, October 2001–September 2002 (director)
8. CNCSIS, type A, code 83/1999, Quantization methods in gauge theories, October 1999–September 2000 (director)