

UNIVERSITATEA DIN CRAIOVA
FACULTATEA DE STIINTE
DEPARTAMENTUL DE FIZICA

CURRICULUM VITAE

Nume: CONSTANTINESCU

Prenume: RADU DAN

Locul nașterii: Târgu Jiu, Jud. Gorj

Cetățenie: Română

Titlul științific: Doctor, Domeniul FIZICA, Specialitatea Fizica Teoretica

Titlul tezei de doctorat, anul susținerii: “Implicații dinamice ale simetriilor în modele din teoria cuantică a câmpului”, 1997

Domenii de competență: Teoria BRST, Sisteme cu constrângeri, Dinamică neliniară

Locul de muncă actual: Universitatea din Craiova

Funcția: Profesor

Conducere de doctorat: DA, în domeniul fizică, din anul 2010

Teze de doctorat conduse: 9

Membri în asociații profesionale: Societatea Română de Fizică, European Physics Society (EPS), Balkan Physical Union (BPU), SouthEastern European Network in Mathematical and Theoretical Physics (SEENET – MTP).

Alte competențe:

- Recenzor pentru Mathematical Reviews (USA) și mai multe reviste cotate ISI.
- Membru în Echipa de promotori Bologna pentru România (2003 – 2012)
- Expert pe probleme ECTS/DS al Comisiei Europene (2005 – 2012)

Limbi străine cunoscute: Franceza, Engleza

Cărți, monografii, capitole de cărți de specialitate publicate în edituri naționale recunoscute de CNCSIS: 6

Lucrări științifice publicate în reviste indexate ISI: (Researcher ID B-8694-2012): 44

Lucrări științifice publicate în reviste de specialitate necotate ISI, dar indexate în baze de date recunoscute: 53

Lecții invitate și prezentări la conferințe internaționale cu comitet și program: 16

Granturi/contracte de cercetare câștigate prin competiție în calitate de director (sau responsabil științific): 16 (din care 9 granturi internaționale și 7 granturi în programe naționale de cercetare).

Granturi/contracte de cercetare câștigate prin competiție în calitate de membru: 9 (din care 1 grant internațional și 8 granturi în programe naționale).

Numărul de citări: 216 in Web of Science; 359 in Google Scholars.

Data : 15.01.2022

Radu Dan Constantinescu

Semnatura



LISTA

lucrărilor științifice publicate sau comunicate - din domeniul specializării

1. Teza de doctorat

Implicații dinamice ale simetriilor în modele din teoria cuantică a câmpului, 1997

2. Lucrări publicate în ultimii 10 ani

2.1. Lucrări în reviste cotate ISI, publicate în perioada 2011-2021:

1. R.Constantinescu, C. Ionescu: "Hot quark-gluon plasma and the Chapline-Manton model." Rom.J. Phys., Vol. 56 No. 1-2 (2011), 53-61
2. R.Cimpoiasu, R.Constantinescu: "Nonlinear self-adjointness and invariant solutions of a 2D Rossby wave equation", Cent.Eur.J.Phys, Vol.12 (2014), 81-89.
3. C.Babalic, R.Constantinescu, V.Gerdjikov: "On Tzitzeica equation and spectral properties of related Lax operators", Balkan J.Geom.Appl. 19 (2014), 11-22.
4. R.Constantinescu: "Generalized conditional symmetries, related solutions and conservation laws of the Klein-Gordon-Fock equation with central symmetry", Rom.J.Phys, Vol.61 (2016), 77-88.
5. R.Constantinescu: "New solutions of Dodd-Bullough-Mikhailov equation by using an improved tanh-method", Rom. Rep. Phys. 69 (2017), 112.
6. R.Constantinescu, C.Ionescu, M.Stoicescu:"Propagating nerve impulse in quasi-steady state conditions", Rom. J. Phys., Vol 58 (2013), Nos 5-6, 538-549.
7. R.Cimpoiasu, R.Constantinescu: "Nonlinear self-adjointness and invariant solutions of a 2D Rossby wave equation", Cent. Eur. J. Phys. (ISSN: 1644-3608), Vol. 12 (2), 81-89, 2014 doi: 10.2478/s11534-014-0430-6
- 8.R.Constantinescu: "Generalized conditional symmetries, related solutions and conservation laws of the Klein-Gordon-Fock equation with central symmetry", Rom.J.Phys. Vol 61, No. 1-2, pag 77-88, 2016
9. R.Constantinescu: "New solutions of Dodd-Bullough-Mikhailov equation by using an improved tanh-method", Rom. Rep. Phys. 69 (2017), 112.
10. R.Constantinescu, R.Cimpoiasu: "Invariant solutions of the Eckhaus-Kundu model with nonlinear dispersion and non-Kerr", Waves in Random and Complex Media, Vol. (2019), <https://doi.org/10.1080/17455030.2019.1587210>
11. C.Ionescu, R.Constantinescu, M.Stoicescu: "*Functional expansion for finding traveling waves solutions*", Journal of Applied Analysis and Computation (JAAC), Vol.10, (2), 2020, 569-583, DOI:10.11948/20180314.

12. R.Constantinescu, A. Florian: Integrability via Functional Expansion for the KMN Model”, Symmetry Vol 12 (2020), 1819; DOI:10.3390/sym12111819
13. R.Constantinescu, R.Cimpoiasu: “Invariant solutions of the Eckhaus-Kundu model with nonlinear dispersion and non-Kerr”, Waves in Random and Complex Media, Vol. 31 (2), 331-341 (2021), <https://doi.org/10.1080/17455030.2019.1587210>
14. J. Sabi’u, H. Rezazadeh, R. Cimpoiasu, R. Constantinescu - Traveling wave solutions of the generalized Rosenau–Kawahara-RLW equation, Intern. J. of Nonlin. Sciences and Numerical Simulation, Vol 23 (2022), <https://doi.org/10.1515/ijnsns-2019-0206>

2.2. Lucrări indexate în alte baze de date, publicate în perioada 2011-2021:

1. R.Constantinescu, C.Ionescu, M.Stoicescu: “Adomian Decomposition Method for Quark Gluon Plasma Model”, invited lecture at TIM’10 (25-27 nov.2010), AIP Conf. Proc., Volume 1387, 31 (2011), 29-36.
2. R.Cimpoiasu, R.Constantinescu, C.Diaconescu: “Symmetries and Similarity Solutions for Nonlinear Water Wave Equations”, work presented at TIM’10 (25-27 nov.2010), AIP Conf. Proc., Volume 1387, 31 (2011), 130-136.
3. R.Cimpoiasu, R.Constantinescu: Non-classical Symmetries and Similarity Solutions for 2D Nonlinear Heat Equation, work presented in TIM’11 (24-27 nov. 2011). AIP Conf. Proc. 1564, 33 (2013), 33-43; <http://dx.doi.org/10.1063/1.4832793>
4. C.N. Babalic, R. Constantinescu, V.S.Gerdjikov: “2-Soliton solution of Tzitzeica equation”, Physics AUC, Vol. 23 (2013), 36-41.
5. C.N.Babalic, R.Constantinescu, V.Gerdjikov: “On Tzitzeica equation and spectral properties of related Lax operators”, Balkan Journal of Geometry and Its Applications”, Vol.19, No.2, 2014, pp. 11-22.
6. R.Constantinescu, F.Iacobescu, A.Streche: “Nonlinear mathematical models for physical phenomena“, presented in BPU 10th Conference (Sofia 2018), AIP Conference Proceedings 2075, 100005 (2019). doi: 10.1063/1.5091249
7. R.Constantinescu, C. Ionescu, A. Pauna: „A reduction method for solving nonlinear PDEs”, Physics AUC, vol. 30 (part II), 158-165 (2020)

2.3. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate) - selecție cu maximum 20 lucrări

1. R.Cimpoiasu, R.Constantinescu: “Description of Nonlinear Phenomena in the Atmospheric Dynamics through Linear Wave type Equations”, work presented at IBWAP, Constanta, July 2008.
2. R.Cimpoiasu, R.Constantinescu: “The symmetries of the physical systems and their implications”, invited lecture at ISCBPU-8, Constanta Sept. 2010
3. R.Cimpoiasu, R.Constantinescu: “Symmetries, Integrability and Exact Solutions for Nonlinear Systems”, Proceedings of the 6th MATHEMATICAL PHYSICS MEETING:

Summer School and Conference on Modern Mathematical Physics, Belgrade, 14-23.09.10, 153-170.

4. R.Cimpoiasu, R.Constantinescu: “New symmetries and particular solutions for the 2D Black-Scholes equation”, The 7th MPhys, Belgrade 2012, Proc SFIN Conf serie A, (2013), ISBN: 978-86-82441-38-0, pp 97-110;

<http://www.mphys7.ipb.ac.rs/proceedings7.html>

5. R.Constantinescu, C.Ionescu, M.Stoicescu: “Modeling neural flow through linearization procedures”, work presented in Theoretical Approaches to BioInformation Systems - TABIS2013, Belgrade, 17-23 Sept. 2013

6. R.Constantinescu, C.Ionescu, M.Stoicescu: “From Chua circuits to Hopfield neurons”, work presented in TIM-13 (21-24Nov.2013). <http://www.timconference.com/>

7. C.Babalic, R.Constantinescu, V.Gerdjikov: “On the properties of the soliton solutions of Tzitzeika equation”, work presented in TIM-13 (21-24Nov.2013) <http://www.timconference.com/>

8. R.Cimpoiasu, R.Constantinescu: “Lie Symmetries for Lorenz Type Systems”, work presented in TIM-13 (21-24Nov.2013) <http://www.timconference.com/>

9. R.Constantinescu: “Symmetries and invariant solutions for evolutionary equations”, work presented in *International School and Workshop on Nonlinear Mathematical Physics and Natural Hazards*, Sofia, Nov.28- Dec.02 2013, <http://www.inrne.bas.bg/international-school-sofia/index.php/program>

10. R.Constantinescu, C.Ionescu, E.Panaintescu, I.Petrisor: “Techniques for chaos control in nonlinear electronic circuits”, prezentata la TIM'14 (Nov. 2014)

11. R.Constantinescu, C.Ionescu, E.Panaintescu, I.Petrisor: “Control and optimization techniques for "jerk" type circuits”, presented in the conf. “Theoretical and computational methods in dynamical systems and fractal geometry”, Maribor, April 2015 http://www.camtp.uni-mb.si/camtp/valera/DS2015/book_abstracts.pdf

12. R.Cimpoiasu, R.Constantinescu: “Conservation laws and solutions of two-dimensional Ricci flow in the solitonic sector”, presented in “The 10th QFT and Hamiltonian Systems”, Sinaia, March 2016.

13. R.Constantinescu: “Symmetries and conservation laws for nonlinear PDEs”, presented in “Workshop on qualitative Theory of differential Equations and Singular Perturbation Theory”, Shanghai Jiao Tong University, May 6-8, 2016.

http://math.sjtu.edu.cn/conference/Ot2016/content.aspx?info_lb=2&flag=2

14. R.Constantinescu: “First order systems of nonlinear ODEs with chaotic behavior” Colloquia SJTU, Shanghai June 1st 2016 <http://www.math.sjtu.edu.cn/research/seminar-show.php?id=-2545>

15. R.Cimpoiasu, R.Constantinescu, M.A.Streche: “Chaos and symmetries in mathematical neural flow models”, presented in BELBI Conference, Belgrade, April 2016, http://alas.matf.bg.ac.rs/~websites/bioinfo/?page_id=639

16. R.Constantinescu, A.Florian, C.Ionescu, A-M.Pauna: “*Power law method for finding soliton solutions of the 2D-Ricci Flow Model*” Proc. of The 9th MPHYS Conf., Belgrade 2017, pp135-146 <http://mphys9.ipb.ac.rs/proceedings9/Constantinescu.pdf>
17. R.Constantinescu, C.Ionescu: “Special methods for solving nonlinear differential equations through polynomial expansions”, Proc. of 10th MPHYS Conf., Belgrade, sept.2019, <http://www.mphys10.ipb.ac.rs/slides/Constantinescu.pdf>

Data: 15.01.2022

Radu CONSTANTINESCU

A handwritten signature in blue ink, appearing to read 'R. Constantinescu', written in a cursive style.