LISTA DE LUCRĂRI ŞTIINŢIFICE
Ş.l. dr. ing. CARTAŞ VIOREL LAURENŢIU

A. ARTICOLE PUBLICATE

A.1. în reviste străine, conferinţe şi simpozioane desfăşurate în străinătate şi în România

1. C. Besliu, Al. Jipa, R. Zaharia, Cristina Argintaru, Dan Argintaru, D. Felea, Cl. Grigorie, Maria Iosif, Nicoleta Ioneci, Cl. Rusu, **V. Cartas**, *Collision Geometry, Correlation and Collision Dynamics in Nucleus-Nucleu Collisions at 4.5A GeV/c,* The XXVIII International Conference On High Energy Physics, Warsaw - Poland, 31,VII.1996, reference number PA06-021 –poster;

2. C. Besliu, Al. Jipa , **V. Cartas**, *Global analysis in the study of the dynamics of the Relativistic Nuclear collisions at 4.5 a gev/c*, published in Proceedings - Europhysics Conference on High Energy Physics, Jerusalem, Israel, 19-26 aug 1997; abstract reference number 056, 1997;

3. **V. Cartas**, *The Connection Between the Radial and the Vertical Oscillations of Particles in Cyclic Accelerator*, Disordered and Complex Systems Conference, King's College 9-16 July, 2000;

4. **V. Cartas,** *Methods for studying complex systems*, ICMP 2000, Imperial College of London, 16-23 July 2000, Book of abstracts DSS.P2.60, pg 37;

5. **V. Cartas**, *The Condition Which Prevent the Second Bifurcation for the Helium Atom Under Electron Interaction*, ICMP 2000, Imperial College of London, 16-23 July 2000, Book of abstracts DSS.P2.35, pg 31;

6. **V. Cartas**, *A Topological Method for Studying Dynamical Systems*, AIP Conference Proceedings 553; pg. 179, American Institute of Physics, 2001;

7. **V. Cartas**, *SLIS Systems in Optical Information*, Euresco Conference, San Feliu de Guixols, Spain, 2001;

8. **V. Cartas** , *A New Model in High Energy Collision*, Czech Journal of Physics,vol. 52, suppl.B, pg.211-218, 2002;

9. **V. L. Cartas** , *The Riemann Function on Glassy Systems*, International Conference on Theoretical Physics, Paris, 2002;

10. **V. L. Cartas**, *Bi Filters and the Changing of their Mono-crystal Characteristics under Iradiation*, WCNR7, Rome, 2002;

11. **V. L. Cartas**, Deutch-Josza algorithm, QCAS, Istanbul, 2003;

12. **V. L. Cartas**, *The Riemann Zeta Function Applied on Glassy Systems and Neural Networks*,Turkish Journal of Physics, vol.28, nr.3, 2004;

13. D. Banica, **V. L. Cartas**, *Excavator plutitor multifunctional pentru operatiuni de ecologizare acvatica,* Conferinţa ECOCHEM ,Chişinău, 2005;

14. D. Banica, **V. L. Cartas**, *Sistem de utilaje pentru colectarea selective a deseurilor metalice*, Conferinţa ECOCHEM, Chisinău, 2005;

15. C.Besliu, Al. Jipa, Cristina Argintaru, D.Argintaru, **V.Cartas**, D.Felea, Cl. Grigorie, Nicoleta Ioneci Sarbu, R.Zaharia, I.S. Zgura, *Possible schock wave signatures in He-AT and C-AT reactions at 4.5 A GeV/c*; ICHEP Conference, Osaka, 2000 ichep2000.hep.sci.osaka-u.ac.jp/abs_PA-04.html;

16. I. Zaharie, **V.L. Cartas**, *The path integral formalism applied on the quantum rigid rotator*, AIP, Proceedings of the Physics Conference Tim-11 1472 (1), 2012, pg. 95-100;

17. **V. L. Cartas**, I Zaharie, *The anyon,s knotted paths and M.Kontsevich integral,*AIP, , AIP, Proceedings of the Physics Conference Tim-11 1472 (1), 2012, pg. 17-24;

A2. în reviste ale Acedemiei Române

---

1. C. Besliu, **V. Cartas**, *Global Analysis In The Study Of The Hydrodynamic Behavior Of The Relativistic Nuclear Collisions*, July 1995, Romanian Reports In Physics;

2. C. Besliu, **V.Cartas**, Al. Jipa, *On a new way to evidence shock waves in relativistic nuclear collisions: the shock polar Method*, Romanian Reports in Physics 49(5-7)(1997)611-617;

3. C. Besliu, **V. Cartas**, Al. Jipa, R.Zaharia, *An extension of the classical shock wave mechanism for nucleus-nucleus collisions at 4.5 AGeV/c*, Romanian Reports in Physics 50(1998)

4. M. Mirea, **V. L. Cartas**, *Qualitative and Quantitative Description of Fission*, Romanian Report in Physics, PACS25.85, 2002;

5. **V.Cartas** , *Accidental Degeneracy* , Romanian Journal of Acoustics and Vibration, oct., vol.1, 2004;

6. **V.Cartas**, *The manifold Degeneracy*, Romanian Journal of Acoustics and Vibration, 2005;

A3. în Analele Universităţilor din România

---

1. **V. Cartas**, *Cinematically Characteristics for He-Li and C-C Relativistic Collisions*, The Annals of the State University of Timisoara, 1995;

2. **V. Cartas**, *The Cerenkov Model Applied on Nucleus-Nucleus Relativistic Collisions*, The Annals of the State University of Timisoara, 1995;

3. **V. Cartas** , *"Burger-de Vries" Equations on the Classical Shock Wave Mechanism for Nucleus-Nucleus Collision*, The Annals of the State University Of Galati,1998;

A4. în Conferinţe International desfăşurate în România

---

1. C. Besliu, Al. Jipa, C. Argintaru, D. Argintaru, **V. Cartas**, D. Felea, Cl. Grigorie, A. Horbuniev, B. M. Iliescu, N. I. Sarbu, R. Zaharia, I. S. Zgura, *Shock waves in the nuclear matter. Experimental signals and dynamical consequences,* presented during the Annual Scientific Session of the Faculty of Physics, University of Bucharest, oral presentation, 25-26 May 2000;

2. **V. Cartas**, *The Braiding Theoryand anyons*, Conference NATO-ASI: Manipulating Quantum Coherence in Solid State Systems, Cluj, 2005;

3. **V. Cartas**, *The Braid Theory and the Topological Quantum Computing*, ICCCC Conference Oradea, 2006;

A5. În conferinţe şi simpozioane naţionale

---

1. A. Ciurea, **V. Cartas**, *Consideratii asupra evaluarii impactului industriei metalurgice asupra mediului*, AGIR, 2004, Braila;

2. A. Ciurea, **V. Cartas**, *Sisteme de management al mediului*, AGIR-2004, Braila;

3. **V. Cartas**, A. Ciurea, *Poluarea prin radiatie cosmica*, AGIR-2004, Braila;

B. CURSURI, MANUALE, MONOGRAFII, TRATATE, ÎNDRUMARE, CULEGERI

B1. litografiate în Universitate

1. **V. Cartas**, *Culegere de probleme de fizica*, Univ. "Dunărea de jos" Galati, 1999;
2. **V. L. Cartas**, *Noţiuni elementare de fizică nucleara-note de curs*, Univ. "Dunărea de Jos" Galati, 2003;

B2. cu ISBN în edituri locale

1. **V.L.Cartas**, *Elemente de proiectare a incintelor cu atmosferă controlată* Editura Impuls, Bucureşti, 2001;
2. **V. L. Cartas**, *Reutilizarea materialelor uzate*, Editura Istros, Brăila, 2001;
3. **V. L. Cartas,** *Probleme de fizică generală şi fizica atmosferei*, Editura Impuls, Bucureşti, 2001;

B3. cu ISBN în edituri centrale, acreditate CNCSIS şi în edituri internaţionale

1. **V. L. Cartas**, *Modelarea interacţiunilor nucleu-nucleu*, Editura Ştiinţifică, "F.M.R.", Bucureşti, 2003;
2. A Ciurea, **V. L. Cartas**, C. Stanciu, M. Popescu, *Managementul mediului* Vol I, Editura Didactică şi Pedagogică, Bucureşti, 2005, ISBN 973-30-1150-9, 195 pag.;
3. A Ciurea, **V. L. Cartas**, C. Stanciu, M. Popescu, *Managementul mediului* Vol I, Editura Didactică şi Pedagogică, Bucureşti, 2005, ISBN 973-30-1162-2, 201 pag.;

D. CONTRACTE DE CERCETARE

1.

G. CITATE

1.A NEW MODEL IN HIGH ENERGY COLLISIONS. By **V. Cartas** (Galaţi U.),. 2002. Prepared for 14th Summer School on Understanding the Structure of Hadrons (HADRONS 01), Prague, Czech Republic, 9-13 Jul 2001. Published in Czech. J. Phys. 52:B211-B218, 2002; LaTeX(US) | LaTeX(EU) | Harvmac | BibTeX Conference Info;

2.AN EXTENSION OF THE CLASSICAL SHOCK WAVE MECHANISM FOR NUCLEUS NUCLEUS COLLISIONS AT 4.5-A-GEV/C. By C. Besliu, **V. Cartas**, A. Jipa, R. Zaharia, (Bucharest, IFIN-HH & Galati U.),. 1999. Published in Rom. Rep. Phys. 51:561-570, 1999, SPIRES HEP is a joint project of SLAC, DESY & FNAL as well as the worldwide HEP community. Mirrors: DESY (Germany), FNAL (US), IHEP (Russia), IPPP (UK), SLAC (US), YITP (Japan) LIPI (Indonesia);
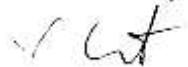
3.AIP Conference Proceedings AIP Conf. Proc. 0094-243X American ...0094-243X American Institute of Physics A topological method for studying dynamical systems in classical mechanics doi 10.1063/1.1358181 author **Cartas V.L**. ...scitation.aip.org/protected/mdfeed/ScholarFeed-20060721_APCPCS_553.xml-Similar pages;

4. Smithsonian/NASA ADS Physics Abstract Service. Find Similar Abstracts (with default settings below). Electronic Refereed Journal Article (HTML). Full Refereed Journal Article (PDF/Postscript). Also-Read Articles (Reads History). Translate Abstract. Title: The Riemann Zeta Function Applied on Glassy Systems and Neural Networks. Authors: **Cartas,**

Abstract: Glassy systems and Neural networks share a simple model of study: the model of a set of N non interacting harmonic oscillators with energy. In this paper the author tries to describe these complex systems in order to find the energy involved. The mathematical method used is described in detail.

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