



Curriculum vitae Europass

Informații personale

Nume/Prenume
Dariescu /Ciprian

Adresă: Str. Sf. Lazar nr. 33, Bl. D1, Et. II, Ap. 8, Iasi, Romania

Telefon: 0232201050

E-mail: ciprian.dariescu@uaic.ro

Naționalitate: Romana

Sex: M

Experiența profesională

Perioada 1985-1988

Funcția sau postul ocupat Profesor de fizică

Numele și adresa angajatorului Liceele Nr. 2 și 5, Bacau

Tipul activității sau sectorul de activitate Didactic

Perioada 1988-1990

Funcția sau postul ocupat Cercetator fizician

Numele și adresa angajatorului Universitatea Alexandru Ioan Cuza din Iași

Tipul activității sau sectorul de activitate Cercetare

Perioada 1990-1993

Funcția sau postul ocupat Asistent universitar

Numele și adresa angajatorului Universitatea Alexandru Ioan Cuza din Iași

Tipul activității sau sectorul de activitate Didactic

Perioada 1993-1997

Funcția sau postul ocupat Lector universitar

Numele și adresa angajatorului Universitatea Alexandru Ioan Cuza din Iași

Tipul activității sau sectorul de activitate Didactic

Perioada 1997-1999

Funcția sau postul ocupat Conferențiar universitar

Numele și adresa angajatorului Universitatea Alexandru Ioan Cuza din Iași

Tipul activității sau sectorul de activitate Didactic

Perioada 1999 până în prezent

Funcția sau postul ocupat Profesor universitar

Numele și adresa angajatorului Universitatea Alexandru Ioan Cuza din Iași

Tipul activității sau sectorul de activitate

Didactic

Conducator de Doctorat, Universitatea Alexandru Ioan Cuza din Iași/ din 2005

Educație și formare

1969-1973: Scoala primara,
1973-1977:Gmnaziu, Liceul M. Eminescu, Iasi,
1977-1981: Liceul M. Eminescu si Liceul C. Negruzzi, Iasi,
1981-1985: Facultatea de Fizica, Universitatea Alexandru Ioan Cuza din Iași

STUDII POSTUNIVERSITARE:

Doctorat in Fizica, specializarea Fizica Teoretica, Universitatea *Alexandru Ioan Cuza*, Iasi, Aprilie 1993;

Tema Tezei: *Studiul Campului Gravitational utilizand Formalismul Newman-Penrose cu Torsiune*

Coordonator: Prof. univ. dr. Ioan Gottlieb

Bursa MONBUSHO de 18 luni la Universitatea din Toyama, Japonia (1994-1996);
Accredited Diploma of graduating the 6 Months Intensive Course of Japanese Language from Nagoya University, Japan

Visiting cu statut de **Courtesy Research Professor** la Institute of Theoretical Science, *Univ. of Oregon*, Eugene, **USA**, Nov., 2002 – Mai, 2003.

Diploma on Cosmology, *First Aegean Summer School on Cosmology* Karlovassi, **Greece**, Sept. 2001 si la *4th Aegean Summer School: Black Holes*, Mytilene, **Greece**, sept. 2007.

Aptitudini și competențe personale

Limba(i) maternă(e)

ROMANA

Limba(i) străină(e) cunoscută(e)

Engleza, Franceza

Autoevaluare

Nivel european (*)

Engleza

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă
B2	B2	B2	B2	B2

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Accredited Diploma of graduating the 6 Months Intensive Course of *Japanese Language* from Nagoya University, Japan

Competențe și aptitudini organizatorice

In the Organizer Committee si Scientific Committee la Conferinte internationale si nationale (selectie)

First Tah Poe School on Cosmology, Tailanda, aprilie, 2002.

International Conference on Relativity, ICR-2005, Amravati University, Amravati, India, ianuarie, 2005.

Conferinta nationala de Fizica Teoretica, Universitatea Alexandru Ioan Cuza, Iasi, Iunie 2010.

ACTIVITATE DIDACTICA UNIVERSITARA:

Ore de laborator si/sau seminar la disciplinele:

Mecanica analitica si a mediilor deformabile (Fizica II), Mecanica cuantica (Fizica III), Metode matematice ale fizicii teoretice (Fizica III), Metoda integralei functionale (Fizica III), Statistica cuantica (Fizica Tehnologica III), Teorii gauge generalizate ale gravitatiei (Master II), Probleme filosofice in fizica moderna (Filosofie, I), Teoria fenomenelor neliniare (Master I), Metode matematice moderne ale fizicii teoretice (Fizica, III).

Ore de curs la disciplinele:

Probleme filosofice moderne in fizica teoretica (Filosofie, I), Metode matematice moderne ale fizicii teoretice (Fizica, III), Mecanica cuantica si fizica statistica (Fizica Tehnologica III), Capitoale speciale de fizica teoretica (Fizica Tehnologica III), Mecanica cuantica (Fizica III), Evolutia ideilor fundamentale in fizica (III, curs credit), Utilizarea integralei functionale in cuantificarea campurilor (Fizica III), Teorii gauge generalizate ale gravitatiei (Master II), Teoria fenomenelor neliniare (Master I),

Cursuri universitare predate la Masterat:

Capitole Speciale de Mecanica Cuantica (Master I),
Teorii gauge generalizate ale gravitatiei (Master II),
Teoria fenomenelor neliniare (Master I),
Fundamentele Fizicii Matematice (incepand cu anul scolar 2008-2009).
Modele in astronomie si astrofizica (Master Modelare si Simulare, II)

Cursuri la **Scoala Doctorala**: Teorii cuantice de camp, Fizica teoretica

Rezultatele activitatii stiintifice

7 monografii, capitole in 5 carti de editor (nationale si international), 14 granturi de cercetare, 105 articole ISI, 58 articole in reviste non-ISI cu referenti, 29 prelegeri in conferinte international si 18 in conferinte nationale. **(Vezi Anexa)**

Premiul **Constantin Miculescu**, acordat de *Academia Romana*, pentru lucrarile publicate in 2011 (in colaborare cu Marina Dariescu), asupra *Teoriei campului gravitacional in modele cu extra-dimensiuni si Moduri cuantice exacte in campuri extreme*, Decembrie 2013.

Diploma de onoare Stiinta pentru oameni, Gala premiilor de excelenta *Sunt Iesean, deci European*, Editia a-II-a, Ianuarie 2008.

Informații suplimentare

Premiul **Constantin Miculescu**, acordat de *Academia Romana*, pentru lucrarile publicate in 2011 (in colaborare cu Marina Dariescu), asupra *Teoriei campului gravitacional in modele cu extra-dimensiuni si Moduri cuantice exacte in campuri extreme*, Decembrie 2013.

Diploma de onoare *Stiinta pentru oameni*, Gala premiilor de excelenta *Sunt Iesean, deci European*, Editia a-II-a, Ianuarie 2008.

Domenii de competenta:

**Teorii gauge generalizate ale gravitației și surselor materiale;
Implicații fenomenologice ale teoriilor gauge în fizica particulelor elementare;
Efecte speciale în teorii moderne de cuantificare**

Prelegeri cu statut de **Invited Plenary Report** la:

The VI-th Friedmann International Seminar on Gravitation and Cosmology, Cargese, France, iulie 2004.

International Conference on Relativity, ICR-2005, Amravati, India, ianuarie 2005.

International Symposium Mathematical Methods in Engineering, MME06, Cankaya University, Ankara, Aprilie 2006.

The VII-th Friedmann International Seminar on Gravitation and Cosmology, Joao Pessoa, Brazil, iunie-iulie 2008.

The 5TH AUSTRALASIAN CONFERENCE ON GENERAL RELATIVITY AND GRAVITATION, University of Canterbury, Christchurch, New Zealand, Dec. 2009.

Prezentare orala la *6th Bangkok Workshop on High-Energy Theory*

Physics Department of Chulalongkorn University, Bangkok, Thailand, Ianuarie 2017.

Seminarii sustinute la Universitati din strainatate (selectie):

Pe teme de fizica energiilor inalte si gravitatie:

Institute of Theoretical Physics, Friedrich-Schiller Univ., Jena, Germany

Institute of Theoretical Physics, Dortmund University, Germany,

Institute of Information Sciences and Electronics, Tsukuba Univ., Japan,

High Energy Physics Dept., Univ. of Hawaii, Honolulu, USA,

La Plata National University, Argentina,

Buenos Aires University si IAFE, Argentina,

UFPB, Brazilia.

Conventie de colaborare bilaterala cu *Canakkale Onsekiz Mart University*, programul ERASMUS.

Conventie de colaborare bilaterala cu *Helsinki University*, programul ERASMUS.

International Scientific Contract with the Institute of Theoretical Physics,

Friedrich-Schiller University, Jena, Germany, on **Exacte Losungen fur**

Axialsymmetrisch Stationare Felder im Rahmen der Allgemeinen Relativitatstheorie und der Riemann-Cartan Theorie, November 1991 - November 1996.

Membru al Societatilor Stiintifice:

American Mathematica Society

Tensor Society (Japan)

European Physical Society

Romanian Physical Society

Romanian Society on General Relativity and Gravitation

Carti publicate:

1. FUNDAMENTAREA MECANICII CUANTICE,
Ioan Gottlieb, Ciprian Dariescu, Marina-Aura Dariescu
Editura "TEHNICA", Chişinău (1997) 568 pagini, ISBN 5-7790-01-55-3
2. GRAVITAȚIE ȘI CÂMPURI ÎN UNIVERSUL EINSTEIN
Ciprian Dariescu, Marina-Aura Dariescu
Editura "VESPER", Iași (1997) 201 pagini, ISBN 973-96589-6-2
3. CÂMPURI CUANTICE LIBERE
Ciprian Dariescu, Marina-Aura Dariescu, Ioan Gottlieb
Editura "BIT", Iași (1998) 582 pagini, ISBN 973-9327-29-x
4. MECANICĂ CUANTICĂ
Ioan Gottlieb, Marina-Aura Dariescu, Ciprian Dariescu
Editura "BIT", Iași (1999) 310 pagini, ISBN 973-9327-33-8.
5. CAPITOLE DE BAZĂ ÎN MECANICA CUANTICĂ. MICROPARTICULE ȘI CÂMPURI
Ciprian Dariescu, Marina-Aura Dariescu, Ioan Gottlieb
Editura "Venus", Iași (2007) 400 pagini, ISBN 978-973-756-061-2
6. MODELE SPECIALE DE UNIVERS ȘI PATOLOGII SPAȚIO-TEMPORALE
Iordana Aștefănoaei, Ciprian Dariescu, Marina-Aura Dariescu
Editura Univ. Al. I. Cuza, Iași (2007) 230 pagini, ISBN 973-703-205-5 (978-973-703-205-8).
7. TOPICI DE ASTRONOMIE, ASTROFIZICĂ ȘI COSMOLOGIE PENTRU ÎNCEPĂTORI,
Marina-Aura Dariescu, Ciprian Dariescu, Lucian-Mihai Cosovanu, Cristian-Ionut Stelea
Editura Ars Longa, Iași (2015) 200 pagini, ISBN 978-973-148-200-2.

Capitole in carti Internationale

On the Quantization of the Complex Scalar Fields in $S^3 \times R$ Space-Time
C Dariescu and M. A. Dariescu

In *Lagrange and Finsler Geometry: Applications to Physics and Biology*, Springer, 1996,
edited by P.L. Antonelli and R. Miron,
ISBN 978-90-481-4656-7, ISBN 978-94-015-8650-4 (eBook)
DOI 10.1007/978-94-015-86.50-4, pgs. 233-240.

Basic General Relativity, 150 pagini, Proceedings of First Tah Poe School on Cosmology,
Naresuan University, Pithanulok, Thailand, 2002.

Proiecte de cercetare-dezvoltare-inovare pe baza de contract-grant

- 1) Studiul campului gravitacional utilizand Formalismul Tetric Null-Complex fara Torsiune
Contract 90/1989 (Faza 2.1, 1989) cu Inst. de Gravitatie si Stiinte Spatiale, Bucuresti;
- 2) Studiul campului gravitacional utilizand Formalismul Tetric Null-Complex cu Torsiune
Contract 90/1989 (Faza 2.2, 1990) cu Inst. de Gravitatie si Stiinte Spatiale, Bucuresti;
- 3) Teorii ale gravitatiei pe spatii cu topologie $S^3 \times R$
Contract 4/1991 (Faza 1.2, 1991) cu Inst. de Gravitatie si Stiinte Spatiale, Bucuresti;
- 4) Teorii extinse ale gravitatiei pe spatii Riemann-Cartan
Contract 4/1991 (Faza 2.2, 1992) cu Inst. de Gravitatie si Stiinte Spatiale, Bucuresti;
- 5) Teorii gauge cu aplicatii in astrofizica si cosmologie
Contract 15/1994 cu Ministerul Cercetarii si Tehnologiei, Bucuresti;
- 6) Metode de cuantificare neperturbativa a Universului Robertson-Walker spatial plat cu constanta cosmologica pozitiva, in imagine Heisenberg, cu aplicatii la sectorul stationar al Universului de Sitter
Contract 42/1996 cu Inst. de Gravitatie si Stiinte Spatiale, Bucuresti;
- 7) Contributii la studiul modelelor spatio-temporale cu simetrii speciale, cu aplicatii la surse scalare si interactiuni gauge pe structuri patologice globale
Contract 43/1996 cu Ministerul Cercetarii si Tehnologiei, Bucuresti
- 8) Studiul teoretic si aplicativ al fenomenelor neliniare
Grant international (Banca Mondiala si Guvernul Romaniei). Cod CNCSU: 39/1998.
- 9) Simulator cuantic pentru dispozitive semiconductoare nanometrice,
Proiect CEEEX – QUANET (2005-2008).
- 10) Campuri cuantice si solutii exacte ale ecuatiilor Einstein cu aplicatii in astrofizica si cosmologie. (Director Grant). Grant tip A, COD CNCSIS 1160/2006-2008.
- 11) Dinamica unitara a campurilor cuantice si de meso-scala. Grant tip A, COD CNCSIS 1433/2007.
- 12) Platforma integrata pentru studii avansate in nanotehnologii moleculare (AMON),
Proiect CNCSIS tip Platforme de cercetare (2006-2008).
- 13) Dezvoltarea de noi concepte, tehnici si abilitati bazate pe metode sinergice de evaluare neinvaziva a materialelor noi si avansate, a materialelor micro si nanostructurate, estimari de ciclu de viata a structurilor realizate de acestea (SINERMAT) . Proiect CEEEX – SINERMAT (2005-2008).
- 14) Mathieu and Heun functions in quantum field dynamics (MHFQFD).
Grant PN-III-P4-ID-PCE-2016-0131 (2017-2019)

I. Articole publicate în reviste cotate ISI

1. **U(1) Gauge Theory for Charged Bosonic Fields on $R \times S^3$ Topology**
C. Dariescu and M.A. Dariescu
Foundations of Physics, **21**, No. 11, p. 1323-1327 (1991).
2. **U(1) Gauge Theory of the Quantum Hall Effect**
C. Dariescu and M.A. Dariescu
Foundations of Physics, **21**, No. 11, p. 1329-1333 (1991).
3. **The SU(2) x U(1) Gauge Theory of Bosonic and Fermionic Fields in $S^3 \times R$ Space-Time**
C. Dariescu and M.A. Dariescu
Foundations of Physics, **24**, No. 11, p. 1577-1582 (1994).
4. **Gauge Theory of Fermions on $S^3 \times R$ Spacetime**
M.A. Dariescu, C. Dariescu and I. Gottlieb
Foundations of Physics, **25**, No. 6, p. 957-961 (1995).
5. **Fermions in a Kerr-Newman Spacetime**
M.A. Dariescu, C. Dariescu and I. Gottlieb
Foundations of Physics, **25**, No. 10, p. 1523-1528 (1995).
6. **A Special Lagrange Metric in Particle Mechanics**
M. Agop, C. Dariescu, M.A. Dariescu and D. Tatomir
Il Nuovo Cimento, **110B**, No. 4, p. 371-375 (1995).
7. **Perturbative QCD Estimation of the $B \rightarrow K^* + \gamma$ Branching Ratio**
M.A. Dariescu and C. Dariescu
Physics Letters B, **367**, No. 1-4, p. 349-352 (1996).
8. **Perturbative QCD analyses of the nonleptonic B meson decays**
C. Dariescu and M.A. Dariescu
Physics Letters B, **378**, No. 1-4, p.323-328 (1996).
9. **Planary Symmetric Static Worlds with Massless Scalar Sources**
C. Dariescu
Foundations of Physics, **26**, No.8, p. 1069-1080 (1996).
10. **Quantizing de Sitter Spacetime in Heisenberg Picture**
C. Dariescu, S. Hamamoto and M.A. Dariescu
Progress of Theoretical Physics, **95**, No.6, p. 1199-1210 (1996).
11. **A Heavy-to-heavy Approach of $B \rightarrow K^* \gamma$ via Perturbative QCD**
C. Dariescu and M.A. Dariescu
Physics Letters B, **398**, No. 4, p. 361-364 (1997).
12. **Non-Inertial First Order Transition Amplitude for 1/2 - Spin Fermions in AlmostUniformly Accelerated Frames**
C. Dariescu and M.A. Dariescu
Il Nuovo Cimento, **113B**, No. 2, p. 207-212 (1998).
13. **Zero Energy Modes of Massless Fermions in $S^3 \times R$ Spacetime**
C. Dariescu and M.A. Dariescu
Foundations of Physics, **28**, No. 8, p. 1393-1396 (1998).
14. **Rotationally Symmetric Massless Modes in Closed Robertson-Walker Universe**
C. Dariescu and M.A. Dariescu
Foundations of Physics Letters, **12**, No. 3, p. 267-279 (1999).
15. **A Maxwell Field Equations Class of Exact Solutions on Matter Dominated Spatially Closed Friedman-Robertson-Walker Universe**
M.A. Dariescu and C. Dariescu.
Foundations of Physics Letters, **12**, No. 4, p. 383-391 (1999).
16. **Non-Leptonic B Meson Decays using Perturbative QCD**
M.A. Dariescu and C. Dariescu
Australian Journal of Physics, **52**, No. 6, p. 949-954 (1999).
17. **Large Scale Pathology of Universes with VII₀ x VIII Isometries**
C. Dariescu and M.A. Dariescu.
Foundations of Physics Letters, **13**, No.4, p. 147-166, (2000).
18. **Magnetic Fields in Spaces with VII₀ x VIII Isometries**
C. Dariescu and M.A. Dariescu
Australian Journal of Physics, **53**, No. 3, p. 345-353 (2000).
19. **Wess-Zumino Currents on $S^3 \times R$ Spacetime**
M.A. Dariescu and C. Dariescu
Foundations of Physics Letters, **15**, No. 1, p. 85-94 (2001).
20. **Large Scale Pathology and Gravitomagnetic Resonances in Static VII₀ x VIII Spacetimes with Mixed Matter-Sources**
C. Dariescu and M.A. Dariescu
International Journal of Modern Physics A, **16**, No. 22, p. 3707-3716 (2001).
21. **Quantum Flux-based Resonances in Solitonic Vortices**
M.A. Dariescu and C. Dariescu
Chaos, Solitons and Fractals, **13**, No. 9, p. 1851-1855 (2002).
22. **SU(N) Supersymmetry on $S^3 \times R$ Spacetime**
M.A. Dariescu and C. Dariescu

- Foundations of Physics Letters, **15**, No. 3, p. 277-286 (2002).
23. **First-Order Perturbative Approach to Charged Boson Stars**
M.A. Dariescu and C. Dariescu
 Physics Letters B, **548**, Nos. 1-2, p. 24-28 (2002).
 24. **Transition Rates in Charged Boson Nebulae**
C. Dariescu and M.A. Dariescu
 Physics Letters B, **566**, Nos. 1-2, p. 19-26 (2003).
 25. **Vacuum Electromagnetic Modes in Friedman-Robertson-Walker Universe**
C. Dariescu and M.A. Dariescu
 International Journal of Modern Physics A, **18**, No. 31, p. 5725-5732 (2003).
 26. **A Lagrangian approach to the theory of gravito-magnetofluid systems**
C. Dariescu and I. Mercheş
 Physics Letters A, **322**, Nos. 3-4, p. 231-238 (2004).
 27. **Higgs-anti-de Sitter Spacetime Bubbles from Spontaneous Z_2 -Violation at Electroweak Symmetry Breaking Scale**
C. Dariescu
 International Journal of Modern Physics D, **13**, No. 4, p. 641-657 (2004).
 28. **Alternative Approach to B^0 Kto K 0 Branching Ratio Calculation**
M. A. Dariescu and C. Dariescu
 Eur. Phys. J. C, **36**, No. 2, p. 215-220 (2004).
 29. **CP Violating SUSY effects in penguin dominated modes $B \rightarrow K \Phi$ and $B \rightarrow K \Phi^*$**
C. Dariescu, M.A. Dariescu, N.G. Deshpande and D.K. Ghosh
 Phys. Rev. **D69**:112003 (2004).
 30. **Quantized Planary Dynamics in Orthogonal Magneto-electrostatic Fields**
M.A. Dariescu and C. Dariescu
 Chaos, Solitons and Fractals, **23**, No. 3, p. 1005-1011 (2005).
 31. **Transition and Regeneration Rates in Charged Boson Stars via Perturbative Calculations**
C. Dariescu and M.A. Dariescu
 International Journal of Modern Physics A, **20**, No. 11, p. 2326-2330 (2005).
 32. **Scalar and Electromagnetic Configurations in $k=1$ Friedmann-Robertson-Walker Universes**
M.A. Dariescu and C. Dariescu
 International Journal of Modern Physics A, **20**, No. 11, p. 2510-2514 (2005).
 33. **Topological quantum dynamics of charged bosons**
M.A. Dariescu, C. Dariescu and G. Murariu
 Chaos, Solitons and Fractals, **28**, No. 1, p. 1-7 (2006).
 34. **Gravitoelectromagnetically induced transitions in charged boson nebulae**
M. A. Dariescu, C. Dariescu and G. Murariu
 Europhysics Letters, **74**, No. 6, p. 978-984 (2006).
 35. **TE-Compatible Maxwell fields in spatially closed Friedman-Robertson-Walker Universe**
C. Dariescu and M. A. Dariescu
 Chaos, Solitons and Fractals, **32**, No. 1, p. 8-14 (2007).
 36. **Finite temperature analysis of quantum Hall-type behavior of charged bosons**
M. A. Dariescu and C. Dariescu
 Chaos, Solitons and Fractals, **33**, No.3, p. 776-781 (2007).
 37. **The Mesoscopic Nonlinear Electro-Quantum Origin of the Langmuir Law**
C. Dariescu and M. A. Dariescu
 Chaos, Solitons and Fractals, **34**, No. 3, p. 955-965 (2007).
 38. **TE Modes in Einstein's Universe**
C. Dariescu, M. A. Dariescu and G. Murariu
 Chaos, Solitons and Fractals, **34**, No. 4, p. 1030-1036 (2007).
 39. **Persistent currents and critical magnetic field in planar dynamics of charged bosons**
M. A. Dariescu and C. Dariescu
 J. Phys.: Condens Matter, **19**, No. 25 (2007) 256203.
 40. **From Nucleation to Inflation—A Better Timing**
C. Dariescu and M.A. Dariescu
 International Journal of Nonlinear Science and Numerical Simulation, **9**, No. 1, p. 1-8 (2008).
 41. **MAPLE Routines for Bosons on Curved Manifolds**
G. Murariu, C. Dariescu, M.A. Dariescu
 Rom. J. of Physics, **53**, No. 1-2, p. 99-108 (2008).
 42. **SO(3,1)-Invariant Approach to Dipole Radiation**
C. Dariescu and M.A. Dariescu
 International J. of Theoretical Physics, **47**, No. 10, p. 2523-2532(2008).
 43. **Semiclassical Analytic Estimation of Charged Boson Nebulae Mass and the Gravitationally Radiated Flux**
C. Dariescu and M.A. Dariescu
 Astroparticle Physics, **29**, No. 5, p. 331-335 (2008).
 44. **A WKB Approach to Quantum Hall States**
M.A. Dariescu and C. Dariescu
 Chaos, Solitons and Fractals, **38**, No. 5, p. 1292-1297 (2008).
 45. **Fermions on Spacetimes of Spatially Closed Hypersurfaces**
M.A. Dariescu and C. Dariescu
 Chaos, Solitons and Fractals, **39**, No. 5, p. 2522-2529 (2009).
 46. **Coherently Perturbed Milne Universe**
C. Dariescu and M.A. Dariescu

- Chaos, Solitons and Fractals, **40**, No. 5, p. 2294-2304 (2009).
47. **The Axially Symmetric p-Modes of Maxwell Radiation in Milne Spacetime**
C. Dariescu and M.A. Dariescu
Astroparticle Physics, **31**, No. 1, p. 46-51 (2009).
 48. **Vertical Dipole Radiation in Milne Universe**
C. Dariescu and M. A. Dariescu
International Journal of Modern Physics A, **24**, No. 8-9, p. 1533-1536 (2009).
 49. **Quantum Thermodynamics of Massless Bosons in Universes with VII₀ x VIII Isometries**
M.A. Dariescu, C. Dariescu and A. C. Pirghie
International Journal of Modern Physics A, **24**, No. 8-9, p. 1574-1577 (2009).
 50. **Mass Spectrum in 5D Warped Einstein Universe and El Naschie's Quantum Golden Field Theory**
M. A. Dariescu, C. Dariescu and A. C. Pirghie
Chaos, Solitons and Fractals, **42**, No. 1, p. 247-252 (2009).
 51. **Natural Brane-Confinement from Massive Z₂-Spontaneously Broken Kaluza-Klein Excitations in the Bulk**
M.A. Dariescu, C. Dariescu and C. Romero
Central European Physical Journal, **7**, No. 4, p. 690-695 (2009).
 52. **Thermodynamics of Bosons in an Universe with Global Pathology**
M. A. Dariescu, C. Dariescu and A. C. Pirghie
Romanian Reports in Physics, **61**, No. 3, p. 417-426 (2009).
 53. **Boson Nebulae Charge**
C. Dariescu and M. A. Dariescu
Chinese Physics Letters, **27**, No. 1, 011101 (2010).
 54. **Hawking-de Sitter Thermalization of Quasi-Minkowskian Massless Scalaron Production, Energy Density Content and Back-Reaction**
A.C. Pirghie, C. Dariescu and M. A. Dariescu
International J. of Theoretical Physics, **49**, No. 1, p. 98-109 (2010).
 55. **Software approaching of quantized planary dynamics of charged bosons**
G. Murariu, A. M. Dariescu and C. Dariescu
JOAM, **12**, No. 4, p. 927- 932 (2010).
 56. **5-Dimensional Toy Model for Particle Confinement in Spatially-Warped Einstein Universe**
M.A. Dariescu and C. Dariescu
Modern Physics Letters A, **25**, No. 24, p. 2051-2063 (2010).
 57. **Robertson-Walker Branes with Massless Scalars and Cosmological Term**
M. A. Dariescu and C. Dariescu
Astroparticle Physics, **34**, No. 2, p. 116-120 (2010).
 58. **Allowed Mass Spectrum for Scalars on Einstein Branes in Five Dimensions**
M. A. Dariescu, C. Dariescu and M. Răuț
Rom. J. of Physics, **55**, No. 9-10, p. 970-978 (2010).
 59. **Charged black strings with arbitrary tension in six dimensions**
C. Stelea, C. Dariescu and M. A. Dariescu
Rom. J. of Physics, **55**, No. 9-10, p. 1131-1140 (2010).
 60. **Charged Scalars in Transient Stellar Electromagnetic Fields**
M.A. Dariescu, C. Dariescu and O. Buhucianu
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