

3. LISTA LUCRĂRILOR ȘTIINȚIFICE PREZENTATE LA CONFERINȚE INTERNAȚIONALE CU COMITET DE PROGRAM

Nr. crt.	Comunicarea	Conferința	Autori
1	Lie symmetries for constrained dynamical systems	IV. International Symposium QUANTUM THEORY AND SYMMETRIES, Varna, Bulgaria, 15-21 August 2005	R. Cimpoiasu, R. Constantinescu
2	Use of the drift kinetic equation to describe electromagnetic turbulent transport in the presence of radio frequency heating	The 13-th Conference on Plasma Physics and Applications, Iasi, Romania, 26-29 October 2005	N. Pometescu
3	New synthesized liquid crystals-experiments and computer simulation	Femtosecond Laser Group Seminar, Freie Universitaet Berlin, Germany, 2005	G. E. Iacobescu
4	The influence of nonmesogenic additives on magneto-optical properties of nematic liquid crystals	First Symposium on Technical Physics and Physical Engineering, Bucharest, Romania, 2005	C. Motoc, G. Iacobescu
5	Fractional Brownian motion in the edge plasma turbulence	The 13-th Conference on Plasma Physics and Applications, Iasi, Romania, 26-29 October 2005	G. Steinbrecher
6	Stochastic modelling of plasma edge turbulence	The 11th European Fusion Theory Conference, Aix-en-Provence, France, September 2005,	B. Weyssow, D. Pilipenko, G. Steinbrecher
7	First exit time problem for fractional Brownian motion and Tokamak edge transport	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, August 29 – September 2, 2005	G. Steinbrecher
8	The Perturbative Distribution Function in Turbulent Plasma	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, August 29 – September 2, 2005	N. Pometescu
9	Electron diffusion in a sheared unperturbed magnetic field and an electrostatic stochastic field	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, August 29 – September 2, 2005	M. Negrea, I. Petrisor, R. Balescu
10	The influence of the diamagnetic Kubo number on zonal flow generation in weak electrostatic turbulence	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, August 29 – September 2, 2005	I. Petrisor, M. Negrea, R. Balescu

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 REZULTATELE ACTIVITĂȚII ȘTIINȚIFICE PE PERIOADA 2005—2009

11	Symmetries and integrability for non-autonomous Hamiltonian systems	II Southeastern European Workshop, Vrnjacka Banja, Serbia, 19-23 May 2005.	R. Cimpoiasu, R. Constantinescu
12	Stochastic processes in turbulent plasma	Zilele asociatiei EURATOM, Iasi, Romania, October 27- 28, 2005	G. Steinbrecher, N. Pometescu, D. Constantinescu, M. Negrea, I. Petrisor
13	The experimental study of a Ni-NiO/Al ₂ O ₃ system obtained by impregnation	The 11th International Conference on Cryogenics and Isotopes Separation , Calimanesti-Caciulata, Romania October, 2005	P. Rotaru, A. Rosca, S. I. Blejoiu, A. Rotaru, E. Morintale
14	Short-wavelength fluctuation regime in paraconductivity of bulk monophasic (Bi, Pb)-2223 superconductor system	International Conference on Fundamental and Applied Research in Physics, Iasi, Romania, 2005	A. Harabor, N. A. Harabor
15	Pressure effect on optical conductivity for bulk (Bi,Pb)- 2223 samples	International Conference on Fundamental and Applied Research in Physics, Iasi, Romania, 2005	A. Harabor, N. A. Harabor
16	Optical and thermoelectrical effect in new synthesized cholesteric compounds	The European Materials Research Society, Spring Meeting, Nice, France, 29 May --2 June 2006	C. Topala, G. Iacobescu, B. Oprea, C. Ducu
17	La lumiere: du symbole religieuse a la theorie quantique	The Symposium «Science, Civilisations, Cultures» Palais du Luxembourg, Paris, 7 Jan.2006	R. Constantinescu
18	Computer simulation of the thermo-electro-optical effect in liquid crystals	The 4-th International Colloquium “Mathematics in Engineering and Numerical Physics” (MENP-4), Bucharest, Romania, 2006	G. Iacobescu, P. Badea
19	Laser Induced Reorientation Process in Dye-Doped Nematic Systems - Role of the Azo-Dye Structure	ROMOPTO 2006, International Conference “Micro to nano-photonics”, Sibiu, Romania, august 28-31, 2006.	N. Eseau, C. Dascalu, I. Palarie, C. Uncheselu
20	Theory and modelling of anomalous transport in fusion plasmas	Zilele asociatiei EURATOM, Cluj-Napoca, Romania, October 10-11, 2006	N. Pometescu, G. Steinbrecher, D. Constantinescu, M. Negrea, I. Petrisor
21	Extreme Anomalous Particle Transport at the Plasma Edge	Biennial Workshop on Stochasticity in Fusion Plasmas, (SFP 2007), Juelich, Germany, 05-07 Mars, 2007	G. Steinbrecher, B. Weysow
22	Role of stochastic anisotropy and shear on magnetic field lines diffusion	Working session of the International Working group "Fusion B.F.R." on “Statistical Physics for Anomalous Transport in Plasmas” CRAIOVA, October 7 - 12, 2007	Negrea, M.

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23	Zonal flow generation in anisotropic electrostatic turbulence	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, October 7 - 12, 2007	I. Petrisor
24	Ion density perturbation in turbulent plasma with ICRH	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas" CRAIOVA, October 7 - 12, 2007	N. Pometescu
25	Test particle diffusion in a magnetic field and an electrostatic stochastic field	The 14-th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007	M. Negrea, I. Petrisor, B. Weysow
26	On revisited models of L-H transition for tokamak plasmas	The 14-th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007	M. Negrea, I. Petrisor, B. Weysow
27	Diamagnetic effects on zonal flow generation in weak electrostatic turbulence	The 12-th European Fusion Theory Conference 24-27 September 2007, Madrid, Spain	M. Negrea, I. Petrisor, B. Weysow
28	Electron diffusion in a sheared unperturbed magnetic field and an electrostatic stochastic field	The 12-th European Fusion Theory Conference 24-27 September 2007, Madrid, Spain	M. Negrea, I. Petrisor, B. Weysow
29	Anisotropic electrostatic turbulence and zonal flow generation	The 6-th School on Fusion Physics and Technology, Volos, Greece, 2007	M. Negrea, I. Petrisor
30	Radial turbulent transport of ions in TOKAMAK plasma with ICRH	The 6-th School on Fusion Physics and Technology, Volos, Greece, March 26-31, 2007	N. Pometescu
31	Anomalous particle transport in TOKAMAK plasma	The 4-th Association Days Meeting, ICIT Ramnicu Valcea, Romania, October 1-2, 2007	N. Pometescu, G. Steinbrecher
32	Optimisation of the Re TVA plasma parameters used for deposition	The 18 th International Symposium on Plasma Chemistry, Kyoto, Japan, August 26-31, 2007	M. Osiac, C.C. Surdu-Bob, C. Iacob, C.P. Lungu
33	Ion density perturbation driven by electromagnetic turbulence and ICRH	The 14-th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007	N. Pometescu
34	Optical emission spectroscopy diagnosis of a Ni thermionic vacuum arc (TVA) plasma	The 14-th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007	M. Osiac, C. C. Surdu-Bob, M. Badulescu, C. P. Lungu

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35	Optical emission spectroscopy of radio-frequency beam assisted pulsed laser deposition	The 14-th International Conference on Plasma Physics and Applications, Brasov, Romania, September 14-18, 2007	M. Osiac, N. Scarisoreanu, M. Dinescu
36	Laser induced reorientation process in dye-doped nematic systems: Role of the azo-dye structure	Proceedings of SPIE	N. Esanu, C. Dascalu, I. Palarie, C. Uncheselu
37	Thin Films by PLD and RF-PLD of Thermally Processed Al ₂ O ₃ -Graphite Systems	MEDICTA 2007-The 8 th Mediterranean Conference on Calorimetry and Thermal Analysis, Palermo, Italy, September 25-29, 2007	A. Rotaru, C. Constantinescu, P. Rotaru, A. Harabor, M. Dumitru, G. Epurescu, R. Birjega, M. Dinescu
38	Thermal analysis and thin films deposition by matrix assisted pulsed laser evaporation of 4 CN type azomonoether	MEDICTA 2007-The 8 th Mediterranean Conference on Calorimetry and Thermal Analysis, Palermo, Italy, September 25-29, 2007	A. Rotaru, C. Constantinescu, P. Rotaru, A. Moanta, N. Scarisoreanu, M. Dumitru, M. Socaciu, M. Dinescu, E. Segal
39	Thermal stability and non-isothermal kinetics of some aromatic azomonoethers, dyes of liquid crystalline nature	41-st IUPAC, World Chemistry Congress, Torino, Italy, August 5 - 11, 2007	A. Rotaru, A. Kropidlowska, A. Moanta, P. Rotaru, M. Socaciu, M. Dinescu
40	Turbulent Transport in non-Ohmic plasma: an ion-cyclotron resonance heating case	The 12-th European Fusion Theory Conference, Madrid – September 24-27, 2007	N. Pometescu
41	Diagnostic Thermionic of the vacuum arc plasma produced in pure chromium vapors	The 18 th International Symposium on Plasma Chemistry, Kyoto, Japan, August 26 th -31 st , 2007	C. P. Lungu, A. M. Lungu, C. C. Surdu-Bob, M. Osiac
42	Topological BF models in interaction with two-form gauge fields. The generalized Freedman-Townsend model	Poisson Sigma Models, Lie Algebroids, Deformations, and Higher Analogues, Austria, Vienna, August 1 to September 21, 2007	C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu
43	The spectrum of the generators in the sp(3) BRST Lagrangian approach for 1-reducible theories	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	C. Ionescu
44	Complete dynamics in the extended phase space	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	R. Constantinescu, C. Ionescu

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45	Influence of magnetic shear and stochastic electrostatic field on electron diffusion	Solvay Workshop – A tribute to Prof. Radu Balescu. “Physics of charged particles: life’s passion of Radu Balescu”, Bruxelles, Belgium, 2008	M. Negrea, I.Petrisor, B.Weysow
46	Ion Density Perturbation in Turbulent Plasma with ICRH. Gyrokinetic approximation.	Solvay Workshop – A tribute to Prof. Radu Balescu. “Physics of charged particles: life’s passion of Radu Balescu”, Bruxelles, Belgium, 2008	N. Pometescu
47	No cross-couplings among different spin-two fields intermediated by a massless p-form	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	C. Bizdadea, E. M. Cioroianu, D. Cornea, E. Diaconu, S. O. Saliu, S. C. Sararu
48	Classical and non-classical symmetries for 2D Kuramoto-Sivashinsky model	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	R. Cimpoiasu, R. Constantinescu, V. M. Cimpoiasu
49	Massless QCD-like theories	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	E. M. Cioroianu, I. Negru, S. C. Sararu
50	Irreducible Dirac bracket for gauge-fixed four-forms	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	C. Bizdadea, O. Balus, E. M. Cioroianu, S. C. Sararu, S. O. Saliu
51	11-dimensional Supergravity as an interacting theory on Minkowski space	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	E. M. Cioroianu, E. Diaconu, S. C. Sararu
52	Interactions in theories with many massless tensors with the mixed symmetry (3,1). Case of couplings with a vector field	6-th School and Workshop on Quantum Field Theory and Hamiltonian Systems, Calimanesti-Caciulata, Romania, 2008	C. Bizdadea, D. Cornea, S. O. Saliu
53	On-Off Intermittency. Exact Results .	Solvay Workshop – A tribute to Prof. Radu Balescu. “Physics of charged particles: life’s passion of Radu Balescu”, Bruxelles, Belgium, 2008	G. Steinbrecher, X. Garbet
54	Comparative temperature programmed reduction of NiO/Al ₂ O ₃ systems, precursors for	14 th ICTAC Congress, Sao Pedro, Brazil, 2008	A. Rotaru, P. Dulgheru, P. Rotaru, A. Haraboror, J. Sullivan

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55	Thermal decomposition kinetics of some aromatic azomonoethers – non-isothermal study of 1-(3-chloro-4-(4-chlorobenzyloxy)phenyl)-2-(4-chlorophenyl)diazene	14 th ICTAC Congress, Sao Pedro, Brazil, 2008	A. Rotaru, A. Moanta, G. Popa, P. Rotaru, E. Segal
56	Thermal characteristics of Ni-Ti SMAs (Shape Memory Alloys) actuators	14 th ICTAC Congress, Sao Pedro, Brazil, 2008	S. Degeratu, P. Rotaru, G. Manolea, H. Manolea, A. Rotaru
57	Visual basic applications for shape memory elements design used in intelligent systems	ICINCO 2008, Funchal, Madeira-Portugal, 2008	S. Degeratu, P. Rotaru, H.O. Manolea, G. Manolea, A. Petrisor, N.G. Bizdoaca
58	Anomalous diffusion in stochastic fields	Solvay Workshop – A tribute to Prof. Radu Balescu. “Physics of charged particles: life’s passion of Radu Balescu”, Bruxelles, Belgium, 2008	I. Petrisor
59	X-ray effect on the high intensity discharge plasma	International Workshop Anomalous Transport in Fusion Plasmas, Craiova, Romania, 2008	N.A. Harabor, A. Harabor, I. Palarie
60	Massless Gravitino Interactions Mediated by a Topological Field Model	Physics Conference TIM-08, Timisoara, Romania, 2008	C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu, M. Iordache
61	BF Models in Dual Formulations of Linearized Gravity	Physics Conference TIM-08, Timisoara, Romania, 2008	C. Bizdadea, E. M. Cioroianu, A. Danehkar, M. Iordache, S. O. Saliu, S. C. Sararu
62	Extended BRST symmetries-Quantum approach	Physics Conference TIM-08, Timisoara, Romania, 2008	R. Constantinescu, C. Ionescu
63	Interactions in theories with mixed symmetry tensor fields: Yes-go results	Physics Conference TIM-09, Timisoara, Romania, 2009	C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, S. C. Sararu
64	The nonabelian gauge fields and their dynamics in the finite space of color factors	Spring School on Stings, Cosmology and Particles, Nis, Serbia, 2009	R. Constantinescu, C. Ionescu
65	Hot Quark-Gluon Plasma and Chapline-Manton model	The 10 th International Balcan Workshop on Applied Physics, Constanta, Romania, 2009	R. Constantinescu, C. Ionescu
66	Photoalignment in dye-doped liquid crystal films induced by polarized laser beam	The 10 th International Balcan Workshop on Applied Physics, Constanta, Romania, 2009	I. Palarie, C. Dascalu, G. E. Iacobescu
67	New Sintering Processing Route for Ceramic Biocomposites Based on Hydroxyapatite Nanopowders	The 4 th International Conference on Powder Metallurgy RoPM, Craiova, Romania, 2009	O. Gingu, P. Rotaru, J. M. Torralba, A. Harabor, M. Mangra, I. Ciupitu, G. Sima, A. Olei, I. Bucse

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68	Impedance spectroscopy study of relaxor ferroelectric PLZT thin films obtained by pulsed laser deposition	EMRS 2009 Spring Meeting, Symposium Q : Laser and Plasma Processing for Advanced Materials, Strasbourg, France, 2009	F. Craciun, M. Dinescu, N. D. Scarisoreanu, C. Capiiani, C. Galassi, E. Morintale
69	Thermal analysis and thin film deposition by matrix assisted pulsed laser evaporation of Cu(II) 2,2'-dihydroxy azobenzene	MEDICTA 2009, The 9 th Mediterranean Conference on Calorimetry and Thermal Analysis, Marseille, France, 2009	C. Constantinescu, A. Rotaru, P. Rotaru, A. Emandi, E. Morintale, V. Ion, A. Moldovan, M. Dinescu
70	Polyacrylic acid: thermal stability and thin films deposition by matrix assisted pulsed laser evaporation (MAPLE)	Frontiers in Polymer Science, International Symposium Celebrating the 50th Anniversary of the Journal Polymer, Congress Centrum Mainz, Germany, 2009	C. Constantinescu, P. Rotaru, E. Morintale, V. Ion, M. Dinescu
71	Study on laser-induced ripple structures in dye-doped liquid crystal films in high-intensity regime	The 9 th International Conference on Optics, Micro- to Nano-Photonics II, ROMOPTO 2009, aug.31-sept.3, 2009, Sibiu, Romania	I. Palarie, C. Dascalu, G. E. Iacobescu
72	Zonal Flow Generation in Weak Electrostatic Turbulence	The 8-th School on Fusion Physics and Technology, Volos, Greece, 2009	M. Negrea, I. Petrisor, B. Weysow
73	Aspects related to the magnetic field lines diffusion in tokamak plasma	The 8-th School on Fusion Physics and Technology, Volos, Greece, 2009	M. Negrea, I. Petrisor, B. Weysow
74	Test-particle simulations of ion drift in stochastic magnetic fields	The 36-th EPS Conference on Plasma Physics, Sofia, Bulgaria, 2009	H. Isliker, A. Vogiannou, L. Vlahos, M. Negrea, I. Petrisor, B. Weysow
75	Aspects of the Diffusion of Ions in Tokamak Plasma	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas", Craiova, 2009	M. Negrea, I. Petrisor, D. Constantinescu
76	Stochastic and regular dynamics in some models proposed for the study of the sawtooth phenomena in tokamaks	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas", Craiova, 2009	D. Constantinescu, M. Negrea, I. Petrisor
77	The zonal flow in anisotropic weak turbulence	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas", Craiova, 2009	I. Petrisor, M. Negrea, D. Constantinescu
78	Modeling random transition between two temperature profiles	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas", Craiova, 2009	N. Pometescu, B. Weysow

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79	Dispersion equation for ITG instability in plasma with ICRH	Working session of the International Working group "Fusion B.F.R." on "Statistical Physics for Anomalous Transport in Plasmas", Craiova, 2009	N. Pometescu
80	Running diffusion coefficient in plasma with two temperatures	EFTC 13 (European, Fusion Theory Conference), Riga, Letonia, October 12-15, 2009	: B. Weysow, N. Pometescu, D. Cornea
81	Ion density perturbation profile due to ITG in plasma with ICRH	EFTC 13 (European, Fusion Theory Conference), Riga, Letonia, October 12-15, 2009	N. Pometescu, B. Weysow
82	The tutor-web, a step toward building an active web-based university	The 5-th Scientific Conference "eLearning and Software for Education", Bucharest April 09-10 2009	D. Constantinescu, G. Stefansson
83	The study of the sawtooth oscillations in tokamaks using mapping models	10 th International Balkan Workshop on Applied Physics, Constanta, Romania, July 6-8 2009,	D. Constantinescu, M. Negrea, I. Petrisor
84	Aspects of the diffusion of electrons and ions in tokamak plasma	10 th International Balkan Workshop on Applied Physics, Constanta, Romania, July 6-8 2009	M. Negrea, I. Petrisor, D. Constantinescu
85	The study of the sawtooth oscillations in tokamaks using mapping models	EFTC 13 (European, Fusion Theory Conference), Riga, Letonia, October 12-15, 2009	D. Constantinescu, M. C Firpo, M Negrea, I. Petrisor
86	Influence of the q value in the low shear region on the robustness of internal transport barriers	EFTC 13 (European, Fusion Theory Conference), Riga, Letonia, October 12-15, 2009	D. Constantinescu, M. C. Firpo, L. Nasi
87	Aspects of the Diffusion of Ions in Tokamak Plasma	EFTC 13 (European, Fusion Theory Conference), Riga, Letonia, October 12-15, 2009	M. Negrea, I. Petrisor, D. Constantinescu, H. Isliker, A. Vogiannou, L. Vlahos