



INSTITUTUL DE MATEMATICA
"SIMION STOILOW"
ACADEMIA ROMANA
Calea Grivitei nr.21, 010702 Bucuresti
Tel: 021 319 65 06; fax: 021 319 65 05

Data 06.03.2006

Concurs pentru ocuparea postului de C.S.I.

Disciplinele:

Domeniul MATEMATICA

de la Catedra/Departamentul de Fizica matematica si Ecuatii cu derivate partiale
post publicat in ziarul Romania Libera nr. 4837 din 03.02.2006, p.17

LISTA DE LUCRARI

Candidat: **Mantoiu L. Marius Laurentiu Dr. / din .1993**

1^o Teza(ele) de doctorat

T1. Contributions to the Method of the Conjugate Operator (Contributii la metoda operatorului conjugat)

2^o Carti publicate (C1, C2 etc.), indrumare publicate (I 1, 12 etc.), capitole publicate in volume colective, capitole teoretice redactate, sisteme de laborator functionale etc. (D1, D2 etc.), dupa caz, prin care se aduc contributi la asigurarea si perfectionarea activitatilor didactice/profesionale in raport cu natura criteriului de evaluare TC2

C1. A. Boutet de Monvel, V. Georgescu, **M. Mantoiu**: "Locally Smooth Operators and the Limiting Absorption Principle for N-Body Hamiltonians", Reviews in Mathematical Physics, 5, no.1, (1993), 105-189.

D1. **M. Mantoiu**, R. Purice: *The Algebra of Observables in a Magnetic Field*, Contemporary Mathematics, 307, Amer. Math. Soc., Providence, RI, (2002), 239-245.

D2. **M. Mantoiu**, R. Purice: *Hardy Type Inequalities, Mourre Estimate and A-Priori Decay for Eigenfunctions*, Oper. Theory, Adv. and Appl, 126, Birkhauser, Basel, 2001.

D3. A. Boutet de Monvel, **M. Mantoiu**: *The Method of the Weakly Conjugate Operator*, Lecture Notes in Physics, 488, (1997), Springer Verlag

3^o Articole / studii publicate in reviste de specialitate recunoscute (R1, R2 etc.), articole/studii publicate in volumele unor manifestari stiintifice internationale recunoscute (Vi1, Vi2 etc.), brevete de inventie (B12, B2 etc.), creatii artistice prezentate la manifestari stiintifice recunoscute (A1, A2 etc.), precum si, dupa caz, alte lucrari similare - articole/studii publicate in volumele unor manifestari stiintifice nationale, lucrari prezentate la diferite seminarii/expozitii etc. (E1, E2 etc.), dupa caz, prin care se aduc contributi la dezvoltarea domeniului in raport cu natura criteriului de evaluare TC3

R1. **M. Mantoiu**, R. Purice: "Strict Deformation Quantization for a Particle in a Magnetic Field", J. Math. Phys., 46 (2005).

R2. **M. Mantoiu**: "On Abelian C*-Algebras that are Independent with Respect to a Filter". J. London Math. Soc., 71 (2005), 740-758.

R3, **M. Mantoiu**, R. Purice : "The Magnetic Weyl Calculus", J. Math. Phys, 45, (2004), 1394-1417.



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- R4. M. Mantoiu, R. Purice** : “*Hardy Type Inequalities*”, Comptes Rendus de l’Academie de sciences de Paris, **335**, (2002), 1023-1027.
- R5. W. O. Amrein, M. Mantoiu, R. Purice**: “*Propagation Properties for Schrödinger Operators Affiliated to Some C*-Algebras*”, Ann. Henri Poincare, **3**, (2002), 1215-1232.
- R6. M. Mantoiu**: “*Compactifications, Dynamical Systems at Infinity and the Essential Spectrum of Generalized Schrödinger Operators*”, Journal für die Reine und Angewandte Mathematik, **550**, (2002), 211-229.
- R7. V. Georgescu, M. Mantoiu**: “*On the Spectral Theory of Singular Dirac- Type Operators*”, Journal of Operator Theory, **46**, (2001), 289-321.
- R8. M. Mantoiu, R. Purice**: “*A-Priori Decay for Eigenfunctions of Perturbed Periodic Schrödinger Operators*”, Annales Henri Poincaré, **2**, (2001), 525-551.
- R9. M. Mantoiu, R. Purice**: “*Weighted Estimations from a Conjugate Operator*”, Letters in Mathematical Physics, **51**, (2000), 17-35.
- R10. M. Mantoiu, S. Richard**: “*Absence of Singular Spectrum for Schrödinger Operators with Anisotropic Potentials and Magnetic Fields*”, Journal of Mathematical Physics, **41**, (2000), 2732-2740.
- R11. M. Mantoiu, M. Pascu**: “*Perturbations of Magnetic Schrödinger Operators*”, Letters in Mathematical Physics, **54**, (2000), 181-192.
- R12. A. Iftimovici, M. Mantoiu**: “*Limiting Absorption Principle at Critical Values for the Dirac Operator*”, Letters in Mathematical Physics, **49**, (1999), 235-243.
- R13. M. Mantoiu, R. Purice**: “*Some Propagation Properties of the Iwatsuka Model*”, Communications in Mathematical Physics, **188**, (1997), 691-708.
- R14. M. Mantoiu, M. Pascu**: “*Global Estimates for Multiplication Operators*”, Journal of Operator Theory, **36**, nr.2, (1996), 283-294.
- R15. A. Boutet de Monvel, G. Kazantzeva, M. Mantoiu**: “*Some Anisotropic Schrödinger Operators without Singular Spectrum*”, Helvetica Physica Acta, **69**, (1996), 13-25.
- R16. M. Mantoiu**: “*Weighted Estimates in the Framework of Mourre Theory*”, Comptes Rendues de l’Académie de Sciences de Paris, **313**, Série I, (1991), 715-720.
- R17. A. Boutet de Monvel, V. Georgescu, M. Mantoiu**: “*Mourre's Theory in a Besov Space Setting*”, Comptes Rendues de l’Académie de Sciences de Paris, **310**, Série I, (1990), 233-237.
- Vi1. M. Mantoiu, R. Purice**: “*The Mathematical Formalism of a Particle in a Variable Magnetic Field*”, Proceedings of the Conference “Qmath. 9”, Giens, France, LNM, Springer.
- Vi2. M. Mantoiu, R. Purice, S. Richard**: “*Twisted Crossed Products and Magnetic Pseudodifferential Operators*”, Proceedings of the Conference “Operator Algebras and Mathematical Physics”, Sinaia, 2003, Theta Foundation, 2005.



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Vi3. M. Mantoiu: "*C*-Algebras and Topological Dynamics in Spectral Analysis*", Proceedings of the OAMP Conference, Constanta, iulie 2002, ed. J.-M. Combes, J. Cunz, G. A. Elliott, G. Nenciu, H. Siedentop, S. Stratila Theta Foundation, (2003) .

Vi4. M. Mantoiu, R. Purice: "*Propagation Estimates for a Magnetic Field Hamiltonian with Band Spectrum*", Proceedings of the International Conference on Partial Differential Equations, Potsdam (1996), Akademie Verlag.

4^o Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe baza de contract/grant, precum si alte lucrari de cercetare-dezvoltare (F1, F2 etc.), dupa caz, prin care se aduc contributii la dezvoltarea mediului educational/cultural/economic/social etc. in raport cu natura criteriului de evaluare TC4

P1. Universitatea Paris 7, martie-iunie 1995: Bursa Postdoctorala.

P2. Universitatea din Geneva, 2003: Grant de Cercetare al Fondului National Elvetian.

P2. Universitatea din Geneva, 2003: Grant de Cercetare al Fondului National Elvetian.

P3. CERES 211/2002, Responsabil de tema de cercetare.

P4. CERES 3-28/2003, Responsabil de tema de cercetare.

P5. CERES 4-187/2004, Responsabil de tema de cercetare.

P6. Proiect European EUROMATT (ICA1-CT-2000-70022) in cadrul FP5, Cercetator specialist.

P7. Contract CERES 152/2001, Cercetator specialist.

P8. Grant CNCSIS 136/2004, Cercetator specialist.

P9. Grant CNCSIS 13A, contract 905/2005, Cercetator specialist.

Nota

(1) Fiecare lucrare este prezentata, in limba in care a fost publicata/expusa, corespunzator structurii "I, II, III, IV, V, VI", unde: I este indicativul (T1, T2 etc.; C1, C2 etc. ...), care se scrie "bold" la lucrarile realizate dupa acordarea ultimului titlu didactic/grad profesional (C1, I 1 etc., dupa caz); II - autorii in ordinea din publicatie, cu scriere "bold" a **candidatului**; III - *titlul* scris "italic"; IV - editura sau revista sau manifestarea si/sau alte elemente de localizare, dupa caz; V - intervalul de pagini din publicatie, respectiv, pp...-....., numarul total de pagini, respectiv, pg., sau alte date similare, dupa caz; VI - anul sau perioada de realizare, dupa caz.

(2) In cadrul fiecarui grup de lucrari (C1, C2 etc.; I 1, 12 etc.;), lucrarile sunt in ordine invers cronologica.

Candidat,

Dr. Mantoiu L. Marius