

Departmental List of Publications for the Year 2001

- [1] A. A. Balinsky, W. D. Evans, and R. T. Lewis. On the number of negative eigenvalues of Schrödinger operators with an Aharonov-Bohm magnetic field. *R. Soc. Lond. Proc. Ser. A Math. Phys. Eng. Sci.*, 457(2014):2481–2489, 2001.
- [2] A. A. Balinsky, W. D. Evans, and Roger T. Lewis. Sobolev, Hardy and CLR inequalities associated with Pauli operators in \mathbb{R}^3 . *J. Phys. A*, 34(5):L19–L23, 2001.
- [3] Alexander Blokh and Michał Misiurewicz. Rotation numbers for certain maps of an n -od. *Topology Appl.*, 114(1):27–48, 2001.
- [4] J. J. Buckley. Note on: “Convergence of powers of a fuzzy matrix” [J. Math. Anal. Appl. **57** (1977), no. 2, 476–480; MR **55** #376] by M. G. Thomason. *Fuzzy Sets and Systems*, 121(2):363–364, 2001.
- [5] James J. Buckley and Thomas Feuring. Fuzzy initial value problem for n th-order linear differential equations. *Fuzzy Sets and Systems*, 121(2):247–255, 2001.
- [6] James J. Buckley, Thomas Feuring, and Yoichi Hayashi. Fuzzy hierarchical analysis revisited. *European J. Oper. Res.*, 129(1):48–64, 2001.
- [7] James J. Buckley, Thomas Feuring, and Yoichi Hayashi. Fuzzy queueing theory revisited. *Internat. J. Uncertain. Fuzziness Knowledge-Based Systems*, 9(5):527–537, 2001.
- [8] James J. Buckley, Thomas Feuring, and Yoichi Hayashi. Multi-objective fully fuzzified linear programming. *Internat. J. Uncertain. Fuzziness Knowledge-Based Systems*, 9(5):605–621, 2001.
- [9] Dirk Buschmann and Günter Stolz. Two-parameter spectral averaging and localization for non-monotonic random Schrödinger operators. *Trans. Amer. Math. Soc.*, 353(2):635–653 (electronic), 2001.
- [10] N. Chernov and D. Kleinbock. Dynamical Borel-Cantelli lemmas for Gibbs measures. *Israel J. Math.*, 122:1–27, 2001.
- [11] N. I. Chernov. Sinai billiards under small external forces. *Ann. Henri Poincaré*, 2(2):197–236, 2001.
- [12] Nikolai Chernov and Roberto Markarian. *Introduction to the ergodic theory of chaotic billiards*, volume 19 of *Monografías del Instituto de Matemática y Ciencias Afines [Monographs of the Institute of Mathematics and Affine Sciences]*. Instituto de Matemática y Ciencias Afines, IMCA, Lima, 2001.
- [13] Robert Csutora and James J. Buckley. Fuzzy hierarchical analysis: the Lambda-Max method. *Fuzzy Sets and Systems*, 120(2):181–195, 2001.
- [14] J. Fröhlich, M. Griesemer, and B. Schlein. Asymptotic electromagnetic fields in models of quantum-mechanical matter interacting with the quantized radiation field. *Adv. Math.*, 164(2):349–398, 2001.
- [15] Marcel Griesemer, Elliott H. Lieb, and Michael Loss. Ground states in non-relativistic quantum electrodynamics. *Invent. Math.*, 145(3):557–595, 2001.
- [16] Norbert Hungerbühler. Quasi-linear parabolic systems in divergence form with weak monotonicity. *Duke Math. J.*, 107(3):497–520, 2001.
- [17] Ian Knowles. Parameter identification for elliptic problems. *J. Comput. Appl. Math.*, 131(1-2):175–194, 2001.
- [18] Andrew O. Maner, John C. Mayer, and Lex G. Oversteegen. Cantor sets of arcs in decomposable local Siegel disk boundaries. *Topology Appl.*, 112(3):315–336, 2001.
- [19] F. Nemat, E. Eslami, and J. J. Buckley. Fuzzy space geometry. I. Points, lines and planes. *J. Fuzzy Math.*, 9(3):659–675, 2001.
- [20] F. Nemat, E. Eslami, and J. J. Buckley. Fuzzy space geometry. II. Subpoints and sublines. *J. Fuzzy Math.*, 9(3):693–700, 2001.
- [21] M. N. Nkashama. Bounded and almost-periodic solutions of nonlocal perturbations of nonautonomous logistic-type equations. *Acta Appl. Math.*, 65(1-3):283–293, 2001. Special issue dedicated to Antonio Avantaggiati on the occasion of his 70th birthday.

- [22] M. N. Nkashama and S. B. Robinson. Resonance and non-resonance in terms of average values. II. *Proc. Roy. Soc. Edinburgh Sect. A*, 131(5):1217–1235, 2001.
- [23] Yoshimi Saitō. Convergence of the Neumann Laplacian on shrinking domains. *Analysis (Munich)*, 21(2):171–204, 2001.
- [24] H. van den Bedem. Statistical properties of hyperbolic systems with tangential singularities. *Nonlinearity*, 14(5):1393–1410, 2001.