

Andrzej Palczewski

## List of publications

### A. Scientific papers

1. M. Burnat, A. Palczewski – On the spectral properties of the operator  $-\Delta u + q(x_1, x_2, x_3)u$  with almost periodic  $q(x_1, x_2, x_3)$ , *Bull. Acad. Polon. Sci.*, **21** (1973), 917–923.
2. A. Palczewski – Spectral properties of the N-particle Schroedinger operator with periodic potential, *Bull. Acad. Polon. Sci.*, **23** (1975), 877–883.
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5. A. Palczewski – Solution of the Cauchy problem for the nonlinear Boltzmann equation, *Bull. Acad. Polon. Sci.*, **26** (1978), 807–811.
6. Z. Czechowski, A. Palczewski – Spectrum of the Boltzmann collision operator for radial cut-off potentials, *Bull. Acad. Polon. Sci.*, **28** (1980), 387–396.
7. A. Palczewski – Local existence theorem for the Boltzmann equation in  $L^1$ , *Arch. Mech.*, **33** (1981), 973–981.
8. A. Palczewski – Boltzmann equation on a lattice: global solution for non-Maxwellian gases, *Arch. Mech.*, **34** (1982), 287–296.
9. J. Mika, A. Palczewski – Application of the asymptotic expansion method for singularly perturbed equations of the resonance type in the kinetic theory, *Arch. Mech.*, **35** (1983), 395–408.
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11. A. Palczewski – The Cauchy problem for the Boltzmann equation. A survey of recent results, in *Kinetic Theories and the Boltzmann Equation*, C. Cercignani Ed., Lect. Notes in Math. No 1048 Springer, Berlin 1984, pp.202–206.
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14. W. Fiszdon, M. Lachowicz, A. Palczewski – Existence problems of the non-linear Boltzmann equation, in *Trends and Applications of Pure Mathematics to Mechanics*, P. G. Ciarlet and M. Roseau Eds., Lect. Notes in Phys. No 195 Springer, Berlin 1984, pp.63–95.

15. A. Palczewski – Evolution operators generated by the space and time nonhomogeneous linearized Boltzmann operator, *Transport Theory Statist. Phys.*, **14** (1985), 1–33.
16. R. Engelhardt, Th. Lorenz, K. Bergmann, Th. Mietzner, A. Palczewski – Shape analysis of the velocity distribution in supersonic Ar beams: comparison between experiment and theory, *Chem.Phys.*, **95** (1985), 417–433.
17. A. Palczewski – Existence of global solutions to the Boltzmann equation in  $L^1$ , in *Proc. XV Symp.RGD*, V. Boffi and C. Cercignani Eds., B.G.Teubner, Stuttgart 1986, vol 1, 144–149.
18. C. Cercignani, A. Palczewski – Existence and uniqueness for nonlinear boundary value problem in kinetic theory, *J.Stat.Phys.*, **46** (1987), 273–281.
19. A. Palczewski – Existence and uniqueness theorems for the Boltzmann equation, in *Kinetic Theory and Gas Dynamics*, C. Cercignani Ed., CISM Courses and Lectures No 293, Springer 1988, 67–94.
20. A. Palczewski – Perturbation of evolution operators of hyperbolic type with applications to kinetic theory, *Rend. Sem. Mat. Univ. Pol. Torino Spec. Issue* 1988 (1988), 145–161.
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22. N. Bellomo, M. Lachowicz, A. Palczewski, G. Toscani – On the initial value problem for the Boltzmann equation with a force term, *Transport Theory Statist. Phys.*, **18** (1989), 87–102.
23. A. Palczewski, G. Toscani – Global solution of the Boltzmann equation for rigid spheres and initial data close to a local Maxwellian, *J. Math. Phys.*, **30** (1989), 2445–2450.
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27. J. Mika, A. Palczewski – Asymptotic analysis of singularly perturbed systems of ordinary differential equations, *Comp.&Mathem.*, **21** (1991), No 10, pp. 13–32.
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49. A. Palczewski – Optimal Financial Portfolios, in *European Success Stories in Industrial Mathematics* edited by T. Lery, M. Primicerio, M. Esteban, M. Fontes, Y. Maday, V. Mehrmann, G. Quadros, W. Schilders, A. Schuppert, H. Tewkesbury, Springer 2011, str. 42–43.
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## B. Monographs

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2. J. Jakubowski, A. Palczewski, M. Rutkowski, L. Stettner – *Matematyka Finansowa*, WNT Warszawa 2003, Second Ed. 2006.

## C. Textbooks

1. A. Palczewski – *Wykłady z Analizy Funkcjonalnej*, Wyd. U.W. 1989
2. A. Palczewski – *Równania różniczkowe zwyczajne*, WNT 1999, Second Corrected Ed. 2004.

## D. Popular and teaching materials

1. A. Palczewski – Równania różniczkowe i komputer, *Delta*, **4(191)** (1990), 1–2.
2. M. Lachowicz, A. Palczewski – Rachunek prawdopodobieństwa a fizyka, *Matematyka, Społeczeństwo, Nauczanie*, **9** (1992), 30–37.
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4. A. Palczewski – Zarządzanie ryzykiem na rynku finansowym, Preprint IMSiM (1995), 24–35.
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