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### Adolf R. Mirotin

**Doctor of Sciences**

**Professor of Mathematics**

**Head of the Department of Mathematical Analysis and Differential**

**Equations**

**Francisc Skorina Gomel State University**

# EDUCATION

# \*Mathematician (hons), Francisc Skorina Gomel State University, 1974

# \* Candidate of Physical and Mathematical Sciences (PhD), Voronezh State University, Voronezh, 1987

# \*Docent Diploma, Highest Attestation Committee, USSR, 1989

# \* Doctor of Physical and Mathematical Sciences, Belarus State University, Minsk, 2001

# \*Professor Diploma, Highest Attestation Committee, Republic of Belarus, 2008

# PROFESSIONAL BACKGROUND

# Main appointments:

# \*Assistant Professor, Department of Mathematics, Gomel State University, 1974-1988

# \* Associate Professor (Docent), Department of Mathematics, Gomel State University, 1988-2004

# \* Full Professor, Department of Mathematics, Gomel State University, 2005 – 2008

\* Head of the Department of Mathematical Analysisand Differential Equations, Gomel State University, 2008 –

MEMBERSHIP OF SCIENTIFIC SOCIETIES

American Mathematical Society

RESEARCH AREAS

Operator theory (semigroups of operators, functional calculi, joint spectra, Hausdorff operators, Toeplitz operators, Hankel operators);

Abstract harmonic analysis (invariant measure, harmonic analysis on semigroups, integral transforms).

MAIN PUBLICATIONS

Books

Mirotin, A. R. Functional analysis: measure and integral, URSS, Moscow, 2012.

# Mirotin, A. R. Harmonic analysis on abelian semigroups, Gomel State University, Gomel, 2008.

# Kamornikov, S. F., Mirotin, A. R. Gomel mathematical Olympiads in the nineties, Gomel State University, Gomel, 1999.

# Mirotin, A. R, et. al. Functional analysis. Gomel State University, Gomel, 2014.

# Chapters in book

# Laboratory practical work in mathematical analysis, I. N. Brui, A. V. Gavriliuk et. al., Vysheishaia shkola, Minsk, 1991.

# Functional analysis and integral equations. Laboratory practical work, ed. by A. B. Antonevich and Ya. V. Radyno, Belarus State University, Minsk, 2003.

# Selected journal articles

# Mirotin, A. R. Every Invariant Measure Semigroup Contains an Ideal which is Embeddable in a Group, *Semigroup Forum*, (1999), 59:3, 354-361.

# Mirotin, A. R. Positive Semicharacters of Lie Semigroups, *Positivity*, 1999, vol. 3, N 1, p. 23-31.

# Mirotin, A. R. On the Extensions of Infinite-Dimensional Representations of Lie Semigroups, *Int. J. Math. Math. Sci*., (2002), 29:4, 195-207.

# Mirotin, A. R. Criteria for Analyticity of Subordinate Semigroups, *Semigroup. Forum*, 2009, vol. 78, № 2, p. 262 – 275.

# Mirotin, A. R. Fredholm and spectral properties of Toeplitz operators in HP-spaces over ordered groups, *Sbornik Math*., (2011), 202:5, 101 – 116.

# Mirotin, A. R. On the $\mathcal{T}$-calculus of generators for $C\_0$-semigroups, *Siberian Math. J*., (1998), 39:3, 493 –- 503.

# Mirotin, A. R. Functions from the Schoenberg class $\mathcal{T}$ on the cone of dissipative elements of a Banach algebra, *Math. Notes*, (1997), 61:3–4, 524–-527.

# Mirotin, A. R. Functions from the Schoenberg class $\mathcal{T}$ act in the cone of dissipative elements of a Banach algebra, II. *Math. Notes*, (1998), 64:3–-4, 364–-370.

# Mirotin, A. R. Multidimensional $\mathcal{T}$-calculus for generators of $C\_0$ semigroups, *St. Petersburg Math. J*., (1999), 11:2, 315–335.

# Mirotin, A. R. On some properties of the multidimensional Bochner-Phillips functional calculus, *Siberian Math. J*., (2011), 52:6, pp 1032 - 1041.

# Mirotin, A. R. Properties of Bernstein functions of several complex variables, *Math. Notes*, 93:2 (2013).

# Mirotin, A. R. Hilbert transform in context of locally compact Abelian groups, *Int. J. Pure Appl. Math*. , (2009), 51:4, 463 -- 474.

# Mirotin, A. R. On joint spectra of families of unbounded operators, *Izvestiya: Math*. (2015), 79:6, 1235 – 1259, DOI 10.1070/IM2015v079n06ABEH002779

# Mirotin, A. R., Atvinovskii, A.A. On some functional calculus of closed operators in Banach space. II, *Russian Math*., (2015), 59:5, 1 – 13.

1. Mirotin, A. R.On the essential spectrum of $\lambda$-Toeplitz operators over compact Abelian groups, *J. Math. Anal. Appl*., (2015), 424:2, 1286 – 1295.

**Selected international conferences**

* International Conference on Functional Differential Equations, June 29 - July 2,1998. Ariel (Israel).
* II International Mathematical Conference in honor of prof. E. S. Lyapin, July 2 – 9, 1999, St. Petersburg(Russia). Plenary talk.
* Twelfth Summer St. Petersburg Meeting in Mathematical Analysis. Euler Int. Math. Institute, August 15-20, 2003, St. Petersburg (Russia).
* International Conference dedicated to 125th anniversary of Hans Hahn. June 27-July 3, 2004. Chernovtsy, (Ukraine). Plenary talk.
* 24th St. Petersburg Summer Meeting in Mathematical Analysis and a Summer School for Young Scientists, June 25-30, 2015, St. Petersburg (Russia).

**Students**

* Kazubo, M. A. Ph.D., Grodno State University, Grodno, 2007.
* Atvinivskii, A. A. Ph.D., Belarus State University, Minsk, 2015.