

## PUBLICATIONS (Dosi=Dosiev)

### SCI (core list)

Dosi A. A., Local operator algebras, fractional positivity and quantum moment problem,

**Trans. AMS. (to appear).**

Dosi A.A., Taylor spectrum and transversality for a Heisenberg algebra of operators,  
**Matem. Sbornik, 201 (1) 2010 (to appear).**

Dosiev A. A., Local operator spaces, unbounded operators and multinormed C\*-algebras,

**J. Funct. Anal., 255 (7) (2008) 1724-1760.**

Dosiev A. A., Regularities in noncommutative Banach algebras,

**Integ. Eq. Oper. Th., 61 (3) (2008) 341-364.**

Dosiev A.A., Quantized moment problem,

**Comptes Rendus Mathematique 344 (10) (2007) 627-630.**

Dosiev A.A., Quasispectra of solvable Lie algebra homomorphisms into Banach algebras,

**Stud. Math. 174 (1) (2006) 13-27.**

Dosiev A.A., Cartan-Slodkowski spectra, splitting elements and noncommutative spectral mapping theorems,

**J. Funct. Anal., 230 (2) (2006) 446-493.**

### SCI (expanded list)

Dosi A. A., Formally radical functions in elements of a nilpotent Lie algebra and noncommutative localizations,

**Algebra Colloquium (to appear).**

Dosi A.A., Taylor functional calculus for supernilpotent Lie algebra of operators,

**J. Operator Theory (to appear).**

Dosi A. A., Noncommutative holomorphic functions in elements of a Lie algebra and noncommutative localizations,

**Izvestiya Math. RAN, 73 (06) (2009) 77-100.**

Dosiev A. A., Local left invertibility for operator tuples and noncommutative localizations,

**J. K-theory, 4 (01) (2009) 163-191.**

Dosi A.A., Perturbations of nonassociative Banach algebras,

**Rocky Mountain J. Math., 39 (2) (2009) 509-526.**

Dosi A.A., Frechet sheaves and Taylor spectrum for supernilpotent Lie algebra of operators,

**Mediterr. J. Math.** **6** (2009) 181-201.

Dosiev A.A., The representation theorem for local operator spaces,

**Funct. Anal. and its Appl.**, **41** (4) (2007) 306-310.

Dosiev A.A., Cohomology of sheaves of Frechet algebras and spectral theory,

**Funct. Anal. and its Appl.**, **39** (3) (2005) 225-228.

Dosiev A.A., Homological dimensions of the algebra formed by entire functions of elements of a nilpotent Lie algebra,

**Funct. Anal. and its Appl.**, **37** (1) (2003) 61-64.

Dosiev A.A., Spectra of infinite parametrized Banach complexes,

**J. Operator Theory**, **48** (3) (2002) 585-614.

Dosiev A.A., Ultraspectra of a representation of a Banach Lie algebra,

**Funct. Anal. and its Appl.**, **35** (3) (2001) 226-229.

Dosiev A.A., Holomorphic functions of a basis of a nilpotent Lie algebra,

**Funct. Anal., and its Appl.** **34** (4) (2000) 302-304.

#### The refereed journals not in SCI expanded list

Dosiev A.A., Spectral mapping framework, Proceedings of the Conference on Topological Algebras,

**Banach Center Publications**, **67** (2005) 161-169.

Dosiev A.A., Algebras of power series in elements of a Lie algebra and Slodkowski spectra,

**J. Math. Sciences** (translated from: **Zapiski LOMI**), **124** (2) (2004) 4886-4908.

Dosiev A.A., Note on algebras of power series in elements of a Lie algebra,

**Trans. NAS Azerb.**, **12** (7) (2004) 39-42.

Dosiev A.A., Projection property of spectra for solvable Lie algebra representations,

**Trans. NAS Azerb.**, **23** (1) (2003) 27-32.

Dosiev A.A., On fredholm pairs of operators,

**Proc. IMM NAS Azerb.**, **13** (2000) 33-38.

Dosiev A.A., Cartan type criterion for solvability of subalgebras of an associative Banach algebra,

**Proc. IMM NAS Azerb.**, **10** (1999) 25-27.

Dosiev A.A., Holomorphic functions on polydisk of Heisenberg algebra generators,

**Trans. NAS Azerb.**, **19** (1998) 41-46.

Dosiev A.A., On Arens-Michael hull of the universal enveloping algebra of a nilpotent Lie algebra,

**Trans. NAS Azerb., 18 (1997) 87-98.**

Dosiev A.A., The Taylor joint spectrum of noncommuting variables,

**Proc. IMM NAS Azerb., 5 (1996) 173-175.**

### **Ph.D. thesis**

Dosiev A.A., Taylor spectrum of Banach-Lie algebra representations,

**Dissertation (Ph.D.), Baku State University, Institute of Mathematics and Mechanics NAS Azerb., 1998.**

### **The international conference talks**

Dosiev A.A., Noncommutative spectral mapping theorem,

**18-th International Conference on Operator Theory, Timisoara (2000) Romania**

<http://atlas-conferences.com/c/a/e/o/17.htm>

Dosiev A.A., Holomorphic functions of noncommuting variables,

**15-th International Conference on Banach algebras, Balticon 2001, Odense, Denmark.**

<http://www.math.ku.dk/conf/balticon2001/>

Dosiev A.A., Taylor spectrum and holomorphic functions of noncommuting variables, **3-th Linear algebra workshop, Bled 2002, Slovenia.**

<http://www.ijp.si/ftp/pub/stop/law/>

Dosiev A.A., Multi-operator functional calculus for supernilpotent operator Lie subalgebras,

**Conference on Topological Algebras, their Applications, and Related Topics, Bedlewo 2003, Poland**

[http://main.amu.edu.pl/~symbol{126}ta2003/.](http://main.amu.edu.pl/~symbol{126}ta2003/)

Dosiev A.A., Frechet algebra sheaf cohomology and spectral theory (talk I), Perturbations of nonassociative Banach algebras (talk II),

**20-th International Conference on Operator Theory, Timisoara (2004) Romania**

<http://atlas-conferences.com/c/a/n/e/32.htm>

<http://atlas-conferences.com/c/a/n/e/33.htm>

Dosiev A.A., Local operator systems and multinormed  $C^*$ -algebras,

**21-th International Conference on Operator Theory, Timisoara (2006) Romania**

<http://atlas-conferences.com/c/a/s/e/08.htm>

Dosiev A.A. Local operator spaces and noncommutative rational functions,

**Operator algebras and topology, Moscow (2007), Russia**  
**<http://higeom.math.msu.su/oat2007/>**

Dosi A.A., Quantum duality and noncommutative Arens-Mackey theorem,  
**Banach algebras 2009, Bedlewo, Poland.**  
**<http://www.siue.edu/MATH/BA2009/>**