

**UNIVERZITA KOMENSKÉHO  
FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY**

**Zoznam publikačnej činnosti**

**Mgr. Marcel Polakovič, PhD.**

**ADC Vedecké práce v zahraničných karentovaných časopisoch**

ADC01 Polakovič, Marcel 100%: Limit of classical projections of quantum mechanics as  $\hbar \rightarrow 0$

Lit. 6 zázn.

In: International Journal of Theoretical Physics. - Vol. 37, No. 12 (1998), s. 2923-2934

*Ohlasy (1):*

[o2] 2000 Bóna, P.: Extended quantum mechanics. In: Acta Physica Slovaca, Vol. 50, No. 1, 200, s. 1-197 - SCI

ADC02 Polakovič, Marcel 100%: Classical projections of quantum mechanics and the limit  $\hbar \rightarrow 0$

Lit. 11 zázn.

In: International Journal of Theoretical Physics. - Vol. 40, No. 3 (2001), s. 755-765

ADC03 Polakovič, Marcel 100%: Evolution of orbits and quantum correlation functions by quadratic Hamiltonians

Lit. 13 zázn.

In: International Journal of Theoretical Physics. - Vol. 44, No. 4 (2005), s. 385-397

ADC04 Polakovič, Marcel 50% - Riečanová, Zdenka 50%: Generalized effect algebras of positive operators densely defined on Hilbert spaces

Lit. 14 zázn.

In: International Journal of Theoretical Physics. - Vol. 50, No. 4, Spec. Issue (2011), s. 1167-1174

[Pseudo-Hermitian Hamiltonians in Quantum Physics : International Conference. Hangzhou, 21.-24.6.2010]

*Ohlasy (10):*

[o1] 2011 Foulis, D. J. - Pulmannová, S.: The exocenter of a generalized effect algebra. In: Reports on Mathematical Physics, Vol. 68, No. 3, 2011, s. 347-371 - SCI

[o2] 2011 Janda, J.: Weakly ordered partial commutative group of self-adjoint linear operators densely defined on hilbert space. In: Tatra Mountains Mathematical Publications, Vol. 50, No. 1, 2011, s. 63-78 - SCOPUS

[o1] 2011 Paseka, J.: PT-symmetry in (generalized) effect algebras. In: International Journal of Theoretical Physics, Vol. 50, No. 4, 2011, s. 1198-1205 - SCOPUS

[o1] 2011 Paseka, J. - Janda, J.: More on PT -symmetry in (generalized) effect algebras and partial groups. In: Acta Polytechnica, Vol. 51, No. 4, 2011, s. 65-72 - SCOPUS

[o2] 2012 Duchoň, M. - Riečan, B.: Probability on hilbert space effect algebras. In: Tatra Mountains Mathematical Publications, Tatra Mountains Mathematical Publications, Vol. 52, No. 1, 2012, s. 141-151 - SCI ; SCOPUS

[o1] 2012 Paseka, J.: On realization of generalized effect algebras. In: Reports on Mathematical Physics, Vol. 70, No. 3, 2012, s. 375-384 - SCI ; SCOPUS

[o1] 2013 Dvurečenskij, A. - Janda, J.: On bilinear forms from the point of view of generalized effect agebras. In: Foundations of Physics, Vol. 43, No. 9, 2013, s. 1136-1152 - SCI ; SCOPUS

[o1] 2013 Foulis, D. J. - Pulmannová, S.: Hull determination and type decomposition for a generalized effect algebra. In: Algebra Universalis, Vol. 69, No. 1, 2013, s. 45-81 - SCI ; SCOPUS

[o1] 2013 Foulis, D. J. - Pulmannová, S.: Dimension theory for generalized effect algebras. In: Algebra Universalis, Vol. 69, No. 4, 2013, s. 357-386 - SCOPUS

[o1] 2013 Chajda, I. - Paseka, J. - Qiang, L.: On realization of partially ordered Abelian groups. In: International Journal of Theoretical Physics, Vol. 52, No. 6, 2013, s. 2028-2037 - SCI ; SCOPUS

ADC05 Polakovič, Marcel 100%: Generalized effect algebras of bounded positive operators defined on Hilbert

spaces

Lit. 12 zázň.

In: Reports on Mathematical Physics. - Vol. 68, No. 2 (2011), s. 241-250

*Ohlasy (7):*

[o1] 2011 Foulis, D. J. - Pulmannová, S.: The exocenter of a generalized effect algebra. In: Reports on Mathematical Physics, Vol. 68, No. 3, 2011, s. 347-371 - SCI ; SCOPUS

[o1] 2012 Paseka, J.: On realization of generalized effect algebras. In: Reports on Mathematical Physics, Vol. 70, No. 3, 2012, s. 375-384 - SCI ; SCOPUS

[o1] 2012 Riečanová, Z. - Zajac, M.: Hilbert space effect-Representations of effect algebras. In: Reports on Mathematical Physics, Vol. 70, No. 3, 2012, s. 283-290 - SCI ; SCOPUS

[o1] 2013 Foulis, D. J. - Pulmannová, S.: Hull determination and type decomposition for a generalized effect algebra. In: Algebra Universalis, Vol. 69, No. 1, 2013, s. 45-81 - SCI ; SCOPUS

[o1] 2013 Foulis, D. J. - Pulmannová, S.: Dimension theory for generalized effect algebras. In: Algebra Universalis, Vol. 69, No. 4, 2013, s. 357-386 - SCI ; SCOPUS

[o1] 2013 Chajda, I. - Paseka, J. - Qiang, L.: On realization of partially ordered Abelian groups. In: International Journal of Theoretical Physics, Vol. 52, No. 6, 2013, s. 2028-2037 - SCI ; SCOPUS

[o1] 2013 Riečanová, Z. - Zajac, M.: Intervals in generalized effect algebras and their sub-generalized effect algebras. In: Acta Polytechnica, Vol. 53, No. 3, 2013, s. 314-316 - SCOPUS

#### **ADE Vedecké práce v ostatných zahraničných časopisoch**

ADE01 Polakovič, Marcel 100%: A note of the regulation number of a multigraph

Lit. 3 zázň.

In: Ars Combinatoria. - Vol. 28 (1989), s. 269-272

#### **AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

AED01 Janková, Katarína 50% - Polakovič, Marcel 50%: Transitivity of expanding maps of the interval

In: Acta Mathematica Universitatis Comenianae, Vol. 56-57. - Bratislava : Alfa, 1990. - S. 243-247. - ISBN 80-05-00445-1

*Ohlasy (3):*

[o1] 1994 Lopez, V. J.: Paradoxical functions on the interval. In: Proceedings of the American Mathematical Society, Vol. 120, No. 2, 1994, s. 465-473 - SCI

[o1] 1995 Bobok, J. - Kuchta, M.: Real Analysis Exchange, Vol. 21, 1995-96, s. 134-146

[o3] 1997 Kolyada, K. - Snoha, L.: Some aspects of topological transitivity-a survey. In: Proceedings of European Conference on Iteration Theory ECIT'94 : Grazer Mathematische Berichte ; Nr. 334. Graz : Karl-Franzens Universität Graz, 1997, s.3-35

#### **AFD Publikované príspevky na domácich vedeckých konferenciách**

AFD01 Polakovič, Marcel 100%: On a formal connection between classical and quantum mechanics given by the limit transition  $h \rightarrow 0$

Lit. 2 zázň.

In: Workshop on Functional Analysis and its Applications in Mathematical Physics and Optimal Control. - Bratislava : Slovak University of Technology, 1997. - S. 30-32

[Functional Analysis and its Applications in Mathematical Physics and Optimal Control : Workshop. Nemecká, 10.-14.9.1997]

AFD02 Polakovič, Marcel 100%: A remark on the classical limit of the quantum mechanics

Lit. 7 zázň.

In: Journal of Electrical Engineering. - Vol. 50, No. 10/s (1999), s. 3-7

[SCAM 1999 : Conference in Applied Mathematics for Undergraduate and graduate Students. Bratislava, 24.4.1999]

AFD03 Polakovič, Marcel 100%: Some properties of systems with quadratic Hamiltonians

Lit. 7 zázn.

In: Journal of Electrical Engineering. - Vol. 51, No. 12/S (2000), s. 63-67

[SCAM 2000 : Conference in Applied Mathematics for Undergraduate and Graduate Students. Bratislava, 14.-15.4.2000]

AFD04 Polakovič, Marcel 100%: Galilei group and quadratic generators

Lit. 6 zázn.

In: Journal of Electrical Engineering. - Vol. 52, No. 10/S (2001), s. 15-17

[SCAM 2001 : Conference in Applied Mathematics for Undergraduate and Graduate Students. Bratislava, 20.-21.4.2001]

AFD05 Polakovič, Marcel 100%: Time evolution of quantum systems with quadratic Hamiltonians and orbits of Weyl-Heisenberg group

Lit. 4 zázn.

In: Workshop on Functional Analysis and its Applications in Mathematical Physics and Optimal Control. - Bratislava : Slovak University of Technology, 2001. - S. 62-63

[Functional Analysis and its Applications in Mathematical Physics and Optimal Control : Workshop. 3rd, Nemecká, 4.-9.9.2001]

AFD06 Polakovič, Marcel 100%: Some remarks on operator generalized effect algebras

Lit. 6 zázn.

In: Workshop on Functional Analysis and its Applications in Mathematical Physics and Optimal Control. - Bratislava : Slovak University of Technology, 2011. - S. 41-43

[Functional Analysis and its Applications in Mathematical Physics and Optimal Control : Workshop. 8th, Nemecká, 5.-10.9.2011]

AFD07 Polakovič, Marcel 100%: Subsets of bounded positive operators may form generalized effect algebras

Lit. 5 zázn.

In: Workshop on Functional Analysis and its Applications in Mathematical Physics and Optimal Control. - Bratislava : Slovak University of Technology, 2013. - S. 39-41. - ISBN 978-80-227-4030-2

[Functional Analysis and its Applications in Mathematical Physics and Optimal Control : Workshop. 9th, Nemecká, 9.-14.9.2013]

### **BCI Skriptá a učebné texty**

BCI01 Kaprálik, Peter 33% - Galanová, Jana 33% - Polakovič, Marcel 34%: Logické systémy. - 1. vyd. - Bratislava : Slovenská technická univerzita, 2007. - 167 s.

ISBN 978-80-227-2589-7

### **BDF Odborné práce v ostatných domácich časopisoch**

BDF01 Polakovič, Marcel 100%: O troch spôsoboch riešenia jednej úlohy

2 obr.

In: Rozhledy matematicko-fyzikální. - Roč. 64 (1985/86), č. 7 (1986), s. 300-305

### **BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných)**

BEE01 Polakovič, Marcel 100%: The classical limit of quantum mechanics

Lit. 5 zázn.

In: Begabtenförderung im MINT-Bereich: Mathematik, Informatik, Naturwissenschaften, Technik ; Band 8. -

Ulm : Aegis-Verlag, 2003. - S. 75-76. - ISBN 3-87005-063-2

BEE02 Polakovič, Marcel 100%: Stone-Weierstass theorem and its applications

Lit. 3 zázn.

In: Begabtenförderung im MINT-Bereich: Mathematik, Informatik, Naturwissenschaften, Technik ; Band 9. -

Ulm : Aegis-Verlag, 2004. - S. 99-103. - ISBN 3-87005-064-0

BEE03 Polakovič, Marcel 100%: Remarks on continuity and convergence

Lit. 1 záz. n.

In: Begabtenförderung im MINT-Bereich: Mathematik, Informatik, Naturwissenschaften, Technik ; Band 14. -  
Ulm : Aegis-Verlag, 2006. - S. 9-12. - ISBN 3-87005-069-1

BEE04 Polakovič, Marcel 100%: Hamiltonian formalism - a useful approach in mathematical physics

Lit. 5 záz. n.

In: Begabtenförderung im MINT-Bereich: Mathematik, Informatik, Naturwissenschaften, Technik ; Band 16. -  
Ulm : Aegis-Verlag, 2007. - S. 39-48. - ISBN 978-3-87005-071-9

BEE05 Polakovič, Marcel 100%: What is quantum cryptography?

Lit. 4 záz. n.

In: Begabtenförderung im MINT-Bereich: Mathematik, Informatik, Naturwissenschaften, Technik ; Band 20. -  
Ulm : Aegis-Verlag, 2009. - S. 105-110. - ISBN 978-3-87005-075-7

### **DAI Dizertačné a habilitačné práce**

DAI01 Polakovič, Marcel 100% : Transformation groups, classical limits and dynamics in quantum mechanics. -

Bratislava : [s.n.], 2002. - 37 s., príl. 46 s.

Doktorandská dizertačná práca (PhD.) - Univerzita Komenského, Bratislava, 2002

Lit. 22 záz. n.

### **Štatistika kategórií (Záznamov spolu: 22):**

ADC Vedecké práce v zahraničných karentovaných časopisoch (5)

ADE Vedecké práce v ostatných zahraničných časopisoch (1)

AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (1)

AFD Publikované príspevky na domácich vedeckých konferenciách (7)

BCI Skriptá a učebné texty (1)

BDF Odborné práce v ostatných domácich časopisoch (1)

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných) (5)

DAI Dizertačné a habilitačné práce (1)

### **Štatistika ohlasov (21):**

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (17)

[o2] Citácie v domácich publikáciách registrované v citačných indexoch (3)

[o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (1)

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