

Publikačná činnosť

Záverečné práce

CSc. práca: *Vyšetrovanie vlastností zovšeobecnených stavov na logike.* (in Slovak) (*Signed States Properties Exhibition on a Logic*) ÚMMT SAV, Bratislava, 1976, pp. 94.

DrSc. práca: *Vybrané problémy teórie pravdepodobnosti na kvantových logikách.* (in Slovak) (*Selected Problems of Probability Theory on Quantum Logics*) MÚ SAV, Bratislava, 1988, pp. 249.

Habilitačná práca: *Joint Distributions in Quantum Logics.* MÚ SAV, Bratislava, 1992, pp. 73

Pôvodné vedecké články

- [1] A. Dvurečenskij, *On some properties of transformations of a logic*, Math. Slovaca **26** (1976), 131-137.
- [2] A. Dvurečenskij, *Signed states on a logic*, Math. Slovaca **28** (1978), 33-40.
- [3] A. Dvurečenskij, *On convergence of signed states*, Math. Slovaca **28** (1978), 289-295.
- [4] A. Dvurečenskij, *Remark on the laws of large numbers and the central limit theorems on a logic*, Trans. Eight Prague Conf. Inf. Theor. Stat. Dec. Funct. Rand. Proc., Prague, Aug. 28-Sept. 1, 1978, vol. A, (1978) pp. 157-163.
- [5] A. Dvurečenskij, *Laws of large numbers and the central limit theorems on a logic*, Math. Slovaca **29** (1979), 397-410.
- [6] A. Dvurečenskij, B. Riečan, *On the individual ergodic theorem on a logic*, Commen. Math. Univ. Carolinae **21** (1980) 385-391.
- [7] A. Dvurečenskij, *On a sum of observables in a logic*, Math. Slovaca **30** (1980), 187-196.
- [8] A. Dvurečenskij, S. Pulmannová, *On the sum of observables in a logic*, Math. Slovaca **30** (1980), 393-399.
- [9] A. Dvurečenskij, S. Pulmannová, *Random measures on a logic*, Demonstr. Math. **14** (1981), 305-320.

- [10] A. Dvurečenskij, *On the extension properties for observables*, Math. Slovaca **31** (1981), 149-153.
- [11] A. Dvurečenskij, *On m-joint distribution*, Math. Slovaca **31** (1981), 347-353.
- [12] A. Dvurečenskij, S. Pulmannová, *On joint distribution of observables*, Math. Slovaca **32** (1982), 155-166.
- [13] S. Pulmannová, A. Dvurečenskij, *Stochastic processes on quantum logics*, Rep. Math. Phys. **18** (1980), 303-315.
- [14] A. Dvurečenskij, S. Pulmannová, *Quantum stochastic processes*, In: Trans. Ninth Prague Conf. Inf. Theor. Stat. Dec. Funct. Rand. Proc., Prague, June 28-July 2, 1982, vol. A, Acad. Prague (1983) pp. 215-221.
- [15] A. Dvurečenskij, S. Pulmannová, *Connection between joint distribution and compatibility*, Rep. Math. Phys. **19** (1984), 349-359.
- [16] S. Pulmannová, A. Dvurečenskij, *Uncertainty principle and joint distribution of observables*, Ann. Inst. Henri Poincaré, Phys. Theor. **42** (1985), 253-265.
- [17] A. Dvurečenskij, *Gleason theorem for signed measures with infinite values*, Math. Slovaca **35** (1985), 319-325.
- [18] A. Dvurečenskij, *On two problems of quantum logics*, Math. Slovaca **36** (1986), 253-265.
- [19] A. Dvurečenskij, L. A. Kuljukina, G.A. Ososkov, *Ob ocenke plotnosti sledov v trekovych kamerach*, OIjal, 5-81-362, Dubna (1981), 1-14.
- [20] A. Dvurečenskij, L. A. Kuljukina, G.A. Ososkov, *On a problem of the busy-period determination in queues with infinitely many servers*, J. Appl. Prob. **21** (1984), 201-206.
- [21] A. Dvurečenskij, *The busy period of order n in the GI/D/ ∞ queue*, J. Appl. Prob. **21** (1984), 207-212.
- [22] I. Vankov, A. Dvurečenskij, G.A. Ososkov, *O primenenii teorii rekurentnykh sobytij k odnoj zadace jadernoj elektroniki*, OIjal, 10-82-574, Dubna (1982), 1-5.
- [23] A. Dvurečenskij, G.A. Ososkov, *Rekurrentnyje sobytija i opredelenije cisla trebovanij, obsluzonnych za period za natosti sistemy GI/GI/ ∞* , OIjal, 5-82-631, Dubna (1982), 1-10.
- [24] A. Dvurečenskij, *O periode zanatosti diskretnoj sistemy obsluzivanija*, OIjal, P5-82-662, Dubna (1982), 1-6.
- [25] A. Dvurečenskij, *O čisle nabljudaemych trebovanij, obslužonnych za period zanatosti sistemy GI/GI/ ∞* , OIjal, P5-82-663, Dubna (1982), 1-5.

- [26] A. Dvurečenskij, L. A. Kuljukina, G.A. Ososkov, *O primenenii sistem massovogo obsluživanija s beskonečnym čislom kanalov k nekotorym zadacам fiziki vysokich energij*, OJjal, P5-82-682, Dubna (1982), 1-14.
- [27] A. Dvurečenskij, G.A. Ososkov, *On a busy period of discrete GI/GI/ ∞ queue*, JINR, E5-82-855, Dubna (1982), 1-7.
- [28] A. Dvurečenskij, G.A. Ososkov, *Note on type II counter problem*, Aplikace matem. **29** (1984), 237-249.
- [29] A. Dvurečenskij, G.A. Ososkov, *O predelnykh svojstvach obobščonnoj sistemy massovogo obsluživanija s beskonečnym čislom kanalov*, I. zv. AN SSSR, Techn. kiber., No. 4 (1985), 60-64. *The limit properties of a generalized queueing system with an infinite number of channels*, Soviet J. Comput. Systems Sci. **23** (1986), 41-46.
- [30] A. Dvurečenskij, G.A. Ososkov, *On a modified counter with prolonging dead time*, J. Appl. Prob. **22** (1985), 678-687.
- [31] A. Dvurečenskij, L.A. Kuljukina, G.A. Ososkov, *O nekotorych statističeskikh ocenkah ionizacii strimernych trekov*. In: Matem. modelirovanije, programmirovaniye i matematičeskie metody rešenija fizičeskikh zadač, Dubna (1985) pp. 343-345.
- [32] A. Dvurečenskij, *On semirecurrent events*, JINR, Dubna (1984), 1-15.
- [33] A. Dvurečenskij, G.A. Ososkov, *Numerical aspects concerning a class of m-semirecurrent events and their application to counter theory*, JINR, E5-84-701, Dubna (1984), 1-14.
- [34] A. Dvurečenskij, *On the time interval between the moments of particle registrations by a modified counter with prolonging dead time*, JINR, E5-84-702, Dubna (1984), 1-12.
- [35] A. Dvurečenskij, G.A. Ososkov, *Ob obobščonnoj diskternoj sisteme massovogo obsluživanija s beskonečnym čislom kanalov*, Izv. AN SSSR, Techn. Kiber., no. 6 (1986), 59-63. *On a generalized discrete queueing system with infinitely many servers*, Soviet J. Comput. Systems Sci. **25** (1987), 42-46.
- [36] A. Dvurečenskij, *Joint distribution of the busy and idle periods of a discrete modified GI/GI/c queue*, Aplik. matem. **33** (1988), 68-76.
- [37] A. Dvurečenskij, *A note on a modified counter with prolonging dead time*, JINR, E5-85-322, Dubna (1985), 1-14.
- [38] A. Dvurečenskij, G.A. Ososkov, *O primenenii teorii verojatnostej k nekotorym zadacam, vznikajuscim pri registraci castic*, OJjal, P5-85-460, Dubna (1985), 1-22.
- [39] A. Dvurečenskij, *On a discrete modified M/GI/c/ ∞ queue*, Aplik. matem. **32** (1987), 214-223.

- [40] A. Dvurečenskij, *Joint distribution of observables and measures with infinite values*, Demonstr. Math. **20** (1987), 121-139.
- [41] A. Dvurečenskij, G.A. Ososkov, *Models of particle counters with prolonging dead time*, Acta Phys. Slovaca **36** (1986), 329 - 342.
- [42] A. Dvurečenskij, *On Gleason's theorem for measures with infinite values*, JINR, E5-86-54, Dubna (1986), 1-10.
- [43] A. Dvurečenskij, *On joint distribution in quantum logics. I. Compatible observables*, Aplik. matem. **32** (1987), 427-435.
- [44] A. Dvurečenskij, *On joint distribution in quantum logics. II. Noncompatible observables*, Aplik. matem. **32** (1987), 436-450.
- [45] A. Dvurečenskij, *On a continuous time analogue of semirecurrent events*, JINR, E5-86-352 (1986), 1-10.
- [46] A. Dvurečenskij, *Generalizations of Maeda's theorem*, Inter. J. Theor. Phys. **25** (1986), 1117-1124.
- [47] A. Dvurečenskij, *New look at the Gleason theorem for signed measures*, Inter. J. Theor. Phys. **26** (1987), 295-305.
- [48] A. Dvurečenskij, *Hahn-Jordan decomposition for Gleason measures*, Inter. J. Theor. Phys. **26** (1987), 513-522.
- [49] A. Dvurečenskij, *Note on a construction of unbounded measures on a nonseparable Hilbert space quantum logic*, Ann. Inst. Henri Poincaré, Phys. Theor. **48** (1988), 297-310.
- [50] A. Dvurečenskij, B. Riečan, *On joint observables for F-quantum space*, Busefal **35** (1988), 10 -14.
- [51] A. Dvurečenskij, *Converse of the Eilers-Horst theorem*, Inter. J. Theor. Phys. **26** (1987), 609-612.
- [52] A. Dvurečenskij, B. Riečan, *On joint distribution of observables for F-quantum spaces*, Fuzzy Sets and Systems **39** (1991), 65-73.
- [53] A. Dvurečenskij, S. Pulmannová, *Type II joint distribution and compatibility of observables*, Demonstr. Math. **22** (1989), 479-497.
- [54] A. Dvurečenskij, B. Riečan, F. Kôpka, *On a representation of observables in ordered spaces*, Busefal **56** (1993), 15-19.
- [55] A. Dvurečenskij, L. Mišík, Jr., *Gleason's theorem and completeness of inner product spaces*, Inter. J. Theor. Phys. **27** (1988), 417-426.
- [56] A. Dvurečenskij, F. Kôpka, *On the representation of observables for F-quantum spaces*, Busefal **38** (1989), 24-27.
- [57] A. Dvurečenskij, B. Riečan, *Fuzziness and commensurability*, Fascic. Math. **19** (1989), 39-47.
- [58] A. Dvurečenskij, *Completeness of inner product spaces and quantum logic of splitting subspaces*, Letters Math. Phys. **15** (1988), 231-235.

- [59] A. Dvurečenskij, *A state criterion of the completeness for inner product spaces*, Demonstr. Math. **22** (1989), 1121-1128.
- [60] A. Dvurečenskij, F. Chovanec, *Fuzzy quantum spaces and compatibility*, Inter. J. Theor. Phys. **27** (1988), 1069-1082.
- [61] A. Dvurečenskij, S. Pulmannová, *State on splitting subspaces and completeness of inner product spaces*, Inter. J. Theor. Phys. **27** (1988), 1059-1067.
- [62] A. Dvurečenskij, *States on families of subspaces of pre-Hilbert spaces*, Letters Math. Phys. **17** (1989), 19-24.
- [63] B. Riečan, A. Dvurečenskij, *Randomness and fuzziness*. In: Proc. First Joint IFSA-EC and EURO-WG Workshop on Progress in Fuzzy Sets in Europe, Nov. 25-27, 1986, Warsaw. Eds. J. Kaczprzyk, A. Straszak, PAN, Warszawa (1988) pp. 321-326.
- [64] S. Pulmannová, A. Dvurečenskij, *Sum logics and sums of unbounded observables*, Rep. Math. Phys. **27** (1989), 81-91.
- [65] A. Dvurečenskij, *Gleason's theorem and its applications*. In: Proc. First Winter School Meas. Theory, Lipt. Ján, Jan. 10 -15, 1988, Eds.: A. Dvurečenskij, S. Pulmannová, JSMF, SAV, (1988) pp. 15-19.
- [66] A. Dvurečenskij, *Frame function and completeness*, Demonstr. Math. **23** (1990), 515-519.
- [67] A. Dvurečenskij, A. Tirpáková, *A note on a sum of observables in F-quantum spaces and its properties*, Busefal **35** (1988), 132-137.
- [68] A. Dvurečenskij, A. Tirpáková, *Sum of observables in fuzzy quantum spaces*, Aplik. Math. **37** (1992), 40-50.
- [69] A. Dvurečenskij, S. Pulmannová, *A signed measure completeness criterion*, Letters Math. Phys. **17** (1989), 253-261.
- [70] A. Dvurečenskij, A. Tirpáková, *Ergodic theory on fuzzy quantum spaces*, Busefal **37** (1989), 86-94.
- [71] A. Dvurečenskij, F. Chovanec, *Compatibility and summability of observables in fuzzy quantum spaces*, Busefal **56** (1993), 4-14.
- [72] A. Dvurečenskij, *The Radon-Nikodým theorem for fuzzy probability spaces*, Fuzzy Sets and Systems **45** (1992), 69-78.
- [73] A. Dvurečenskij, F. Kôpka, *On representation theorems for observables in weakly complemented posets*, Demonstr. Math. **23** (1990), 911-920.
- [74] A. Dvurečenskij, *Frame functions, signed measure and completeness of inner product spaces*, Acta Univ. Carolinae Math. Phys. **30** (1989), 41-49.
- [75] A. Dvurečenskij, *On the existence of probability measures on fuzzy measurable spaces*, Fuzzy Sets and Systems **43** (1991), 173-181.

- [76] A. Dvurečenskij, *On a representation of observables on fuzzy measurable spaces*, J. Math. Anal. Appl. **197** (1996), 579-585.
- [77] A. Dvurečenskij, F. Chovanec, F. Kôpka, *On mean value additivity on fuzzy quantum spaces*, Acta Math. Univ. Comenianae **58-59** (1990), 107-117.
- [78] S. Pulmannová, A. Dvurečenskij, *Quantum logics, vector valued measures and representations*, Ann. Inst. Henri Poincaré, Phys. Théor. **53** (1990), 83-95.
- [79] A. Dvurečenskij, T. Neubrunn, S. Pulmannová, *Regular states and countable additivity on quantum logics*, Proc. Amer. Math. Soc. **114** (1992), 931-938.
- [80] A. Dvurečenskij, T. Neubrunn, S. Pulmannová, *Finitely additive states and completeness of inner product spaces*, Found. Phys. **20** (1990), 1091-1102.
- [81] A. Dvurečenskij, Le Ba Long, *On representation of fuzzy quantum posets*, Acta Math. Univ. Comenianae **58-59** (1990), 239-246.
- [82] A. Dvurečenskij, Le Ba Long, *Observables in fuzzy quantum posets*, Acta Univ. Comenianae **58-59** (1990), 247-258.
- [83] A. Dvurečenskij, *Solution to a regularity problem*. In: Proc. Second Winter School Meas. Theory, Liptovský Ján, Jan. 7-12, 1990, Eds. A. Dvurečenskij, S. Pulmannová, JSMF, SAV Bratislava, (1990) pp. 224-227.
- [84] A. Dvurečenskij, *Regular, finitely additive states and the completeness of inner product spaces*. In: Proc. Second Winter School Meas. Theory, Liptovský Ján, Jan. 7-12, 1990, Eds. A. Dvurečenskij, S. Pulmannová, JSMF, SAV Bratislava, (1990) pp. 47-50.
- [85] A. Dvurečenskij, *Finitely additive Gleason measures*, Proc. Amer. Math. Soc. **115** (1992), 191-198.
- [86] S. Pulmannová, A. Dvurečenskij, *On the homomorphisms of sum logics*, Ann. Inst. Henri Poincaré, Phys. Théor. **54** (1991), 223-228.
- [87] A. Dvurečenskij, *Regular measures and completeness of inner product spaces*. In: Contributions to General Algebra **7**, Hölder-Pichler-Tempsky Verlag, Vienna, B.G. Teubner Verlag, Stuttgart, (1991) pp. 137-147.
- [88] A. Dvurečenskij, *Regular charges and completeness of inner product spaces*, Atti. Sem. Mat. Fis. Univ. Modena **41** (1993), 269-285.
- [89] A. Dvurečenskij, *Quantum logics and completeness of inner product spaces*, Inter. J. Theor. Phys. **31** (1992), 1899-1907.
- [90] A. Dvurečenskij, B. Riečan, *Fuzzy quantum spaces*, Inter. J. General Syst. **20** (1991), 39-54.
- [91] A. Dvurečenskij, *Regular measures and inner product spaces*, Inter. J. Theor. Phys. **31** (1992), 889-905.

- [92] A. Dvurečenskij, *Remarks on representation of fuzzy quantum posets*, Math. Slovaca **44** (1994), 429-440.
- [93] A. Dvurečenskij, *Gleason's Theorem and Its Applications*, Kluwer Academic Press, Dordrecht/Boston/London, 1993, 325+xv pp.
- [94] A. Dvurečenskij, *Gleason's theorem and completeness criteria*, Inter. J. Theor. Phys. **32** (1993), 2377-2388.
- [95] P. de Lucia, A. Dvurečenskij, *Decompositions of Riesz-space-valued measures on orthomodular posets*, Tatra Mt. Math. Publ. **2** (1993), 229-239.
- [96] P. de Lucia, A. Dvurečenskij, *Yosida-Hewitt decompositions of Riesz-space-valued measures on orthoalgebras*, Tatra Mt. Math. Publ. **3** (1993), 101-110.
- [97] A. Dvurečenskij, B. Riečan, *Decompositions of measures on orthoalgebras and difference posets*, Inter. J. Theor. Phys. **33** (1994), 1397-1402.
- [98] A. Dvurečenskij, S. Pulmannová, *Difference posets, effects, and quantum measurements*, Inter. J. Theor. Phys. **33** (1994), 819-850.
- [99] A. Dvurečenskij, *Tensor product of difference posets*, Trans. Amer. Math. Soc. **347** (1995), 1043-1057.
- [100] A. Dvurečenskij, S. Pulmannová, *Test spaces, Dacey spaces, and completeness of inner product spaces*, Lett. Math. Phys. **22** (1994), 299-306.
- [101] A. Dvurečenskij, *Frame functions and completeness of inner product spaces*, Ann. Inst. Henri Poincaré Phys. Théor. **62** (1995), 429-438.
- [102] A. Dvurečenskij, S. Pulmannová, *D-test spaces and difference posets*, Rep. Math. Phys. **34** (1994), 151-170.
- [103] A. Dvurečenskij, S. Pulmannová, *Tensor products of D-posets and D-test spaces*, Rep. Math. Phys. **34** (1994), 251-275.
- [104] A. Dvurečenskij, *Measures and \mathbb{D} -decomposable measures on effects of a Hilbert space*, Atti Sem. Matem. Fis. Univ. Modena **45** (1997), 259-288.
- [105] A. Dvurečenskij, H. Länger, *Bell-type inequalities in orthomodular lattices I. Inequalities of order 2*, Inter. J. Theor. Phys. **34** (1995), 995-1024.
- [106] A. Dvurečenskij, H. Länger, *Bell-type inequalities in orthomodular lattices II. Inequalities of higher order*, Inter. J. Theor. Phys. **34** (1995), 1025-1036.
- [107] A. Dvurečenskij, H. Länger, *Bell-type inequalities in horizontal sums of Boolean algebras*, Found. Phys. **24** (1994), 1195-1202.
- [108] A. Dvurečenskij, *Tensor product of difference posets or of effect algebras*, Inter. J. Theor. Phys. **34** (1995), 1337-1348.
- [109] A. Dvurečenskij, P. De Lucia, E. Pap, *On a decomposition theorem and its applications*, Math. Japonica **44** (1996), 145-164.

- [110] A. Dvurečenskij, *A note on the Nikodým boundedness theorem*, Tatra Mt. Math. Publ. **8** (1996), 231-240.
- [111] A. Dvurečenskij, K. Svozil, S. Pulmannová, *Partition logics, orthoalgebras and automata*, Helv. Phys. Acta **68** (1995), 407-428.
- [112] A. Dvurečenskij, *Remarks on Nikodým's boundedness theorem*, Novi Sad J. Math. **26** (1996), 25-51.
- [113] A. Dvurečenskij, *A measure theoretic characterization of inner product spaces*, Tatra Mt. Math. Publ. **10** (1997), 273-280.
- [114] G. Dorfer, A. Dvurečenskij, H. Länger, *Symmetric difference in orthomodular lattices*, Math. Slovaca **46** (1996), 435-444.
- [115] A. Dvurečenskij, *Test spaces and characterizations of quadratic spaces*, Inter. J. Theor. Phys. **35** (1996), 2093-2106.
- [116] A. Dvurečenskij, *Gleason's theorem and Cauchy functional equation*, Inter. J. Theor. Phys. **35** (1996), 2687-2695.
- [117] A. Dvurečenskij, K. Svozil, *Product of partition logics, orthoalgebras and automata*, Inter. J. Theor. Phys. **35** (1996), 2377-2390.
- [118] A. Dvurečenskij, *Fuzzy set representation of some quantum structures*, Fuzzy Sets and Systems **101** (1999), 67-78.
- [119] A. Dvurečenskij, H.S. Kim, *Connections between BCK-algebras and difference posets*, Studia Logica **60** (1998), 421-439.
- [120] A. Dvurečenskij, *Measures and states on BCK-algebras*, Atti Sem. Mat. Fis. Univ. Modena **47** (1999), 511-528.
- [121] A. Dvurečenskij, S.S. Ahn, H.S. Kim, *The Ker-Coker sequence in BCI-algebras*, Demonstr. Math. **30** (1997), 844-850.
- [122] M. Duchoň, A. Dvurečenskij, P. de Lucia, *Moment problem for effect algebras*, Inter. J. Theor. Phys. **36** (1997), 1941-1958.
- [123] A. Dvurečenskij, *Bell-type inequalities and orthomodular lattices*, In: Language, Quantum, Music. Eds. M.L. Dalla Chiara et al. Kluwer Acad. Press, 1999, pp. 209-218.
- [124] A. Dvurečenskij, *Solér's theorem and characterization of inner product spaces*, Inter. J. Theor. Phys. **37** (1998), 23-29.
- [125] A. Dvurečenskij, M.G. Graziano, *Remarks on representations of minimal clans*, Tatra Mt. Math. Publ. **15** (1998), 31-53.
- [126] A. Dvurečenskij, M.G. Graziano, *On representations of commutative BCK-algebras*, Demonstr. Math. **32** (1999), 227-246.
- [127] A. Dvurečenskij, *Fuzzy representation of effect algebras and the moment problem*. In: Seventh IFSA World Congress, Prague, June 25-29, 1997, Eds M. Mares et al., Academia, Prague, 1997, pp. 146-151.
- [128] A. Dvurečenskij, M.G. Graziano, *Commutative BCK-algebras and lattice ordered groups*, Math. Japonica **49** (1999), 159-174.

- [129] A. Dvurečenskij, *Commutative BCK-algebras and lattice ordered groups with universal property*, Indian J. Math. **42** (2000), 119-152.
- [130] A. Dvurečenskij, *Measures on commutative BCK-algebras*, Atti Sem. Matem. Fis. Univ. Modena **49** (2001), 19-49.
- [131] A. Dvurečenskij, *Ideals of commutative BCK-algebras*, Ricerche Matem. **49** (2000), 241-256.
- [132] A. Dvurečenskij, M.G. Graziano, *Dedekind complete commutative BCK-algebras*, Order **17** (2000), 23-41.
- [133] A. Dvurečenskij, M.G. Graziano, *Measures on Dedekind complete commutative BCK-algebras*, Atti Sem. Matem. Fis. Univ. Modena **49** (2001), 51-72.
- [134] A. Dvurečenskij, *On categorical equivalences of commutative BCK-algebras*, Studia Logica **64** (2000) 21-36.
- [135] J. Neggers, A. Dvurečenskij, Hee Sik Kim, *On d-fuzzy functions in d-algebras*, Found. Phys **30** (2000), 1807-1816.
- [136] A. Dvurečenskij, B. Riečan, *Weakly divisible MV-algebras and product*, J. Math. Anal. Appl. **234** (1999), 208-222.
- [137] A. Di Nola, A. Dvurečenskij, *Product MV-algebras*, Multi. Val. Logic **6** (2001), 193-215.
- [138] A. Dvurečenskij, *Commutative BCK-algebras with product*, Demonstr. Math **33** (2000), 1-19.
- [139] A. Dvurečenskij, F. Chovanec, E. Rybáriková, *D-homomorphisms and atomic σ -complete Boolean D-posets*, Soft Computing **4** (2000), 9-18.
- [140] A. Dvurečenskij, *Gleason's theorem in applications*, In: G. Kalmbach: *Quantum Measures and Spaces*, Kluwer Acad. Publ., Dordrecht/ Boston/London, Chapter 4, 1998, pp. 39-50.
- [141] A. Dvurečenskij, F. Chovanec, E. Rybáriková, *Observables, measures, and atomic Dedekind σ -complete BCK-algebras*, In: Proc. EUROUSE-SC'99 Budapest, Hungary, May 25-28, 1999, Eds B. De Baets et al., Technic. Univ. of Budapest, 1999, pp. 89-94.
- [142] G. Chevalier, A. Dvurečenskij, K. Svozil, *Piron's and Bell's geometric lemmas and Gleason's theorem*, Found. Phys. **30** (2000), 1737-1755.
- [143] A. Dvurečenskij, *Loomis-Sikorski theorem for σ -complete MV-algebras and I-groups*, J. Austral. Math. Soc. Ser. A **68** (2000), 261-277.
- [144] A. Dvurečenskij, P. Lahti, K. Ylinen, *Positive operator measures determined by their moment sequences*, Rep. Math. Phys. **45** (2000), 139-146.
- [145] A. Dvurečenskij, *Commutative BCK-algebras and quantum structures*, Inter. J. Theor. Phys. **39** (2000), 653-664.

- [146] A. Dvurečenskij, *On partial addition in pseudo MV-algebras*, In: Proc. Fourth Inter. Symp. on Econ. Inform., May 6-9, 1999, Bucharest, Eds I. Smeureanu et al., INFOREC Printing House, Bucharest, 1999, pp. 952-960.
- [147] A. Dvurečenskij, S. Pulmannová, S. Salvati, *Meanders in orthoposets and QMV algebras*, Demonstr. Math. **34** (2001), 1-11.
- [148] A. Dvurečenskij, *On Loomis-Sikorski's theorem for MV-algebras and BCK-algebras*, In: Contribut. to General Algebra **12**, Proc. Vienna Conf. June 3-6, 1999, Verlag Johannes Heyn, Klagenfurt, 2000, pp. 165-180.
- [149] A. Dvurečenskij, *MV-observables and MV-algebras*, J. Math. Anal. Appl. **256** (2001), 413-428.
- [150] A. Dvurečenskij, *Was ist Quantenlogik ?* In: Mathematik-Interdisziplinär. Eds. J. Flachsmeyer et al., Shaker Verlag, Aachen, 2000, pp. 103-109.
- [151] A. Dvurečenskij, *Pseudo MV-algebras are intervals in I-groups*, J. Austral. Math. Soc. **72** (2002), 427-445.
- [152] A. Dvurečenskij, *On pseudo MV-algebras*, Soft Computing **5** (2001), 347-354.
- [153] A. Dvurečenskij, S. Pulmannová, *New Trends in Quantum Structures*, Kluwer Academic Publ., Dordrecht, Ister Science, Bratislava, 2000.
- [154] A. Dvurečenskij, T. Vetterlein, *Pseudoeffect algebras. I. Basic properties*, Inter. J. Theor. Phys. **40** (2001), 685-701.
- [155] A. Dvurečenskij, T. Vetterlein, *Pseudoeffect algebras. II. Group representation*, Inter. J. Theor. Phys. **40** (2001), 703-726.
- [156] A. Dvurečenskij, *States on pseudo MV-algebras*, Studia Logica **68** (2001), 301-327.
- [157] A. Dvurečenskij, *Measures on quantum structures*, in: Handbook of Measure Theory, E. Pap (Editor), Elsevier Science, Amsterdam, 2002, Vol. II pp. 827-868.
- [158] A. Dvurečenskij, T. Vetterlein, *Generalized pseudo-effect algebras*, In: *Lectures on Soft Computing and Fuzzy Logic*, Di Nola, A., Gerla, G., (Eds.), Physica-Verlag, Springer-Verlag Co., Berlin, 2001, pp. 89-111.
- [159] A. Dvurečenskij, T. Vetterlein, *Algebras in the positive cone of po-groups*, Order **19** (2002), 127-146.
- [160] A. Dvurečenskij, G. Kalmbach, *States on pseudo MV-algebras and the hull-kernel topology*, Atti Sem. Mat. Fis. Univ. Modena **50** (2002), 131-146.
- [161] A. Dvurečenskij, *States and idempotents of pseudo MV-algebras*, Tatra Mt. Math. Publ. **22** (2001), 79-89.

- [162] A. Dvurečenskij, T. Vetterlein, *Congruences and states on pseudo-effect algebras*, Found. Phys. Letters **14** (2001), 425-446.
- [163] A. Dvurečenskij, *Central elements and Cantor-Bernstein's theorem for pseudo-effect alebras*, J. Austral Math. Soc. **74** (2003), 121-143.
- [164] A. Dvurečenskij, *A new algebraic criterion for completeness inner product spaces and the σ -Riesz interpolation property*, Letters Math. Phys. **58** (2001), 205-228.
- [165] A. Dvurečenskij, *On effect algebras which can be covered by MV-algebras*, Inter. J. Theor. Phys. **41** (2002), 221-229.
- [166] A. Dvurečenskij, T. Vetterlein, *On pseudo-effect algebras which can be covered by pseudo MV-algebras*, Demonstr. Math. **36** (2003), 261-282.
- [167] A. Dvurečenskij, P. Pták, *Quantum logics with the Riesz interpolation property*, Math. Nachr. **271** (2004), 10-14.
- [168] A. Di Nola, A. Dvurečenskij, *MV-test spaces versus MV-algebras*, Czechoslovak Math. J. **54** (2004), 189-203.
- [169] A. Dvurečenskij, *Test spaces, pseudo-effect algebras, and tensor product of pseudo-effect algebras*, Demonstr. Math. **35** (2002), 699-715.
- [170] A. Dvurečenskij, P. Lahti, K. Ylinen, *The uniqueness question in the multidimensional moment problem with applications to phase space observables*, Rep. Math. Phys. **50** (2002) 55-68.
- [171] A. Dvurečenskij, M.G. Graziano, *An invitation to economical test spaces and effect algebras*, Soft Computing **9** (2005), 463-470.
- [172] A. Dvurečenskij, T. Vetterlein, *Archimedeanity and the MacNeill completion of pseudoeffect algebras and po-groups*, Algebra Universalis **50** (2004), 207-230.
- [173] A. Dvurečenskij, *Blocks of pseudo-effect algebras with the Riesz interpolation property*, Soft Computing **7** (2003), 441-445.
- [174] A. Dvurečenskij, *States on unital partially-ordered groups*, Kybernetika **38** (2002), 297-318.
- [175] A. Dvurečenskij, T. Vetterlein, *Infinitary and Riesz properties for pseudoeffect algebras and po-groups*, J. Austral. Math. Soc. **75** (2003), 295-311.
- [176] A. Dvurečenskij, T. Vetterlein, *Non-commutative algebras and quantum structures*, Inter. J. Theor. Phys. **43** (2004), 1599-1612.
- [177] A. Dvurečenskij, *Perfect effect algebras are categorically equivalent with Abelian interpolation po-groups*, J. Austral. Math. Soc. **82** (2007), 183-207.
- [178] A. Dvurečenskij, *Product effect algebras*, Inter. J. Theor. Phys. **41** (2002), 1827-1839.

- [179] A. Di Nola, A. Dvurečenskij, J. Jakubík, *Good and bad infinitesimals, and states on pseudo MV-algebras*, Order **21** (2004), 293-314.
- [180] A. Dvurečenskij, P. Pták, *On states on orthogonally closed subspaces of an inner product space*, Letters Math. Phys. **62** (2002), 63-70.
- [181] A. Dvurečenskij, *Visualization of effect algebras by automorphisms*, Inter. J. Theor. Phys. **41** (2002), 2327-2334.
- [182] A. Dvurečenskij, *Holland's theorem for pseudo-effect algebras*, Czechoslovak Math. J. **56** (2006), 47-59.
- [183] A. Dvurečenskij, *States on subspaces of inner product spaces with the Gleason property*, Inter. J. Theor. Phys. **42** (2003), 1393-1401.
- [184] E. Chetcuti, A. Dvurečenskij, *Boundedness of sign-preserving charges, regularity, and the completeness of inner product spaces*, J. Austral. Math. Soc. **78** (2005), 199-210.
- [185] A. Dvurečenskij, *Ideals of pseudo-effect algebras and their applications*, Tatra Mt. Math. Publ. **27** (2003), 45-65.
- [186] E. Chetcuti, A. Dvurečenskij, *A finitely additive state criterion for the completeness of inner product spaces*, Letters Math. Phys. **63** (2003), 221-227.
- [187] A. Dvurečenskij, *States and radicals of pseudo-effect algebras*, Atti. Sem. Mat. Fis. Univ. Modena **52** (2004), 85-103.
- [188] E. Chetcuti, A. Dvurečenskij, *On the range of charges on orthogonally closed subspaces of an inner product space*, Inter. J. Theor. Phys. **42** (2003), 1927-1942.
- [189] E. Chetcuti, A. Dvurečenskij, *The existence of finitely additive states on orthogonally closed subspaces of incomplete inner product spaces*, Letters Math. Phys. **67** (2004), 75-80.
- [190] A. Dvurečenskij, *Lorenzen's theorem for pseudo-effect algebras*, Math. Slovaca **53** (2004), 23-42.
- [191] A. Dvurečenskij, *States on pseudo-effect algebras with general comparability*, Kybernetika **40** (2004), 397-420.
- [192] E. Chetcuti, A. Dvurečenskij, *Measures on the splitting subspaces of an inner product space*, Inter. J. Theor. Phys. **43** (2004), 369-384.
- [193] E. Chetcuti, A. Dvurečenskij, *The state-space of the lattice of orthogonally closed subspaces*, Glasgow Math. J. **47** (2005), 213-220.
- [194] A. Dvurečenskij, *Loomis-Sikorski theorem for monotone σ -complete effect algebras*, J. Austral. Math. Soc. **79** (2005), 305-318.
- [195] A. Di Nola, A. Dvurečenskij, M. Hyčko, C. Manara, *Entropy on effect algebras with the Riesz decomposition property I: Basic properties*, Kybernetika **41** (2005), 143-160.

- [196] A. Di Nola, A. Dvurečenskij, M. Hyčko, C. Manara, *Entropy on effect algebras with the Riesz decomposition property II: MV-algebras*, Kybernetika **41** (2005), 151-176.
- [197] A. Dvurečenskij, J. Rachunek, *Probabilistic averaging in bounded commutative residuated I -monoids*, Discrete Math. **306** (2006), 1317-1326.
- [198] A. Dvurečenskij, S. Pulmannová, *Conditional probability on sigma-MV-algebras*, Fuzzy Sets and Systems **155** (2005), 102-118.
- [199] A. Dvurečenskij, *Unital groups and general comparability property*, Inter. J. Theor. Phys. **43** (2004), 2169-2185.
- [200] A. Dvurečenskij, J. Rachunek, *Bounded commutative residuated I -monoids with general comparability and states*, Soft Computing **10** (2006), 212-218.
- [201] E. Chetcuti, P. de Lucia, A. Dvurečenskij, *Sequential convergence of regular measures on prehilbert space logic*, J. Math. Anal. Appl. **318** (2006), 199-210.
- [202] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *Measure-theoretic characterizations of certain topological properties*, Bull. Pol. Acad. Sci. Math. **53** (2005), 99-109.
- [203] A. Dvurečenskij, P. Lahti, S. Pulmannová, K. Ylinen, *Notes on coarse grainings and functions of observables*, Rep. Math. Phys. **55** (2005), 241-248.
- [204] A. Dvurečenskij, J. Rachunek, *Probabilistic averaging in bounded RI -monoids*, Semigroup Forum **72** (2006) 190-206.
- [205] E. Chetcuti, A. Dvurečenskij, *Recent progress on pre-Hilbert-space logics and their measure spaces*, Inter. J. Theor. Phys. **44** (2005), 2177-2189.
- [206] A. Dvurečenskij, M. Hyčko, *On the existence of states for linear pseudo BL-algebras*, Atti Sem. Mat. Univ. Modena e Reggio Emilia **53** (2005), 93-110.
- [207] A. Dvurečenskij, M. Hyčko, *Algebras on subintervals of BL-algebras, pseudo BL-algebras and bounded residuated I -monoids*, Math. Slovaca **56** (2006), 125-144.
- [208] A. Dvurečenskij, J. Rachunek, *On Riečan and Bosbach states for bounded non-commutative RI -monoids*, Math. Slovaca **56** (2006), 125-144.
- [209] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *Loomis-Sikorski representation of monotone sigma-complete effect algebras*, Fuzzy Sets and Systems **157** (2006), 683-690.

- [210] A. Dvurečenskij, W.C. Holland, *Top varieties of generalized MV-algebras and unital lattice-ordered groups*, Comm. Algebra **35** (2007), 3370-3390.
- [211] A. Dvurečenskij, *Every linear pseudo BL-algebra admits a state*, Soft Computing **11** (2007), 495-501.
- [212] A. Dvurečenskij, *Agliano-Montagna type decomposition of linear pseudo hoops and its applications*, J. Pure Appl. Algebra **211** (2007), 851-861.
- [213] A. Dvurečenskij, *New quantum structures*, In: Handbook of Quantum Logic and Quantum Structures. Quantum Structures, Eds. K. Engesser, Dov M. Gabbay, D. Lehmann, Elsevier, 2007, pp. 1-53.
- [214] A. Di Nola, A. Dvurečenskij, C. Tsinakis, *On perfect GMV-algebras*, Comm. Algebra **36** (2008), 1221-1249.
- [215] A. Dvurečenskij, *On n-perfect GMV-algebras*, Comm. Algebra **36** (2008), 221-1249. J. Algebra **319** (2008), 4921-4946.
- [216] A. Dvurečenskij, W.C. Holland, *Komori's characterization and top varieties of GMV-algebras*, Algebra Universalis **60** (2009), 37-62.
- [217] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *Algebraic and measure-theoretic properties of classes of subspaces of an inner product space*, In: Handbook of Quantum Logic and Quantum Structures, Quantum Structures, Eds. K. Engesser, Dov M. Gabbay, D. Lehmann, Elsevier, 2007, pp. 75-120.
- [218] A. Dvurečenskij, F. Ventriglia, *Representations of pseudo Vitali spaces and Loomis-Sikorski theorem*, J. General Systems **40** (2011), 39-59.
- [219] A. Dvurečenskij, F. Ventriglia, *On two versions of the Loomis-Sikorski theorem for algebraic structures*, Soft Computing **12** (2008), 1027-1034.
- [220] A. Dvurečenskij, W.C. Holland, *Covers of the Abelian variety of generalized MV-algebras*, Comm. Algebra **37** (2009), 3991-4011.
- [221] A. Dvurečenskij, W.C. Holland, *Free product of unital l-groups and free product of generalized MV-algebras*, Algebra Universalis, **62** (2009), 19-25. DOI 10.1007/S00012-010-0035-X
- [222] A. Dvurečenskij, J. Kühr, *On the structure of linearly ordered pseudo-BCK-algebras*, Archive Math. Logic **48** (2009), 771-791.
- [223] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *On Gleason's theorem without Gleason*, Found. Phys. **39** (2009), 550-558. DOI 10.1007/s10701-008-9265-6
- [224] A. Di Nola, A. Dvurečenskij, *State-morphism MV-algebras*, Ann. Pure Appl. Logic **161** (2009), 161-173.

- [225] A. Dvurečenskij, *Cyclic elements and subalgebras of GMV-algebras*, Soft Computing **14** (2010), 257-264. DOI: 10.1007/s00500-009-0400-x
- [226] A. Di Nola, A. Dvurečenskij, *On some classes of state-morphism MV-algebras*, Math. Slovaca **59** (2009), 517-534.
- [227] A. Dvurečenskij, *On states on MV-algebras and their applications*, J. Logic Comput. **21** (2011), 407-427.
- [228] A. Dvurečenskij, M. Hyčko, *Bounded Boolean powers and free product of GMV-algebras*, Inter. J. Theor. Phys. **49** (2010), 1595-1611.
- [229] A. Dvurečenskij, R. Giuntini, and T. Kowalski, *On the structure of pseudo BL-algebras and pseudo hoops in quantum logics*, Found. Phys. **40** (2010), 1519-1542.
- [230] A. Dvurečenskij, and T. Kowalski, *On decomposition of pseudo BL-algebras*, Math. Slovaca **61** (2011), 307-326. DOI 10.2478/s12175-011-0014-5
- [231] A. Dvurečenskij, and T. Kowalski, *Multipotent GBL-algebras*, Algebra Universalis **64** (2010), 25-38.
- [232] A. Di Nola, A. Dvurečenskij, A. Lettieri, *On varieties of MV-algebras with internal states*, Inter. J. Approx. Reasoning **51** (2010), 680-694.
- [233] L.C. Ciungu, A. Dvurečenskij, *Measures, states and de Finetti maps on pseudo-BCK algebras*, Fuzzy Sets and Systems **161** (2010), 2870-2896. DOI:10.1016/j.fss.2010.03.017
- [234] L.C. Ciungu, A. Dvurečenskij, M. Hyčko, *State BL-algebras*, Soft Comput. **15** (2011), 619-634. DOI: 10.1007/s00500-010-0571-5
- [235] A. Dvurečenskij, B. Riečan, *On states on BL-algebras and related structures*, In: Witnessed Years. Essays in Honour of Petr Hajek. Tributes vol. **10**, Eds. P. Cintula et al. Lightning Source, Milton Keynes, ISBN 978-1-904987-63-5, 2009, pp. 287-302.
- [236] A. Di Nola, A. Dvurečenskij, A. Lettieri, *Erratum ‘‘State-morphism MV-algebras’’ [Ann. Pure Appl. Logic **161** (2009) 161-173]*, Ann. Pure Appl. Logic **161** (2010), 1605-1607. DOI 10.1016/j.apal.2010.06.004
- [237] A. Dvurečenskij, *Subdirectly irreducible state-morphism BL-algebras*, Archive Math. Logic **50** (2011), 145-160. DOI: 10.1007/s00153-010-0206-7
- [238] A. Di Nola, A. Dvurečenskij, A. Lettieri, *On the Loomis-Sikorski theorem for MV-algebras with internal state*, J. Austral. Math. Soc. **89** (2010), 317-333.
- [239] A. Di Nola, A. Dvurečenskij, A. Lettieri, *Stone duality type theorems for MV-algebras with internal state*, Comm. Algebra **40** (2012), 327-342. DOI: 10.1080/00927872.2010.531336

- [240] A. Dvurečenskij, J. Rachunek, D. Šalounová, *State operators on generalizations of fuzzy structures*, Fuzzy Sets and Systems **187** (2012), 58-76. DOI: 10.1016/j.fss.2011.05.023
- [241] A. Dvurečenskij, *Every state on interval effect algebra is integral*, J. Math. Phys. **51** (2010), 083508-12. DOI: 10.1063/1.3467463
- [242] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *Loomis-Sikorski theorem and Stone duality for effect algebras with internal state*, Fuzzy Sets and Systems **172** (2011), 71-86. DOI:10.1016/j.fss.2011.01.004
- [243] A. Dvurečenskij, *Representation of states on effect-tribes and effect algebras by integrals*, Rep. Math. Phys. **67** (2011), 63-85.
- [244] A. Dvurečenskij, *States on pseudo effect algebras and integrals*, Found Phys. **41** (2011), 1143-1162. DOI: 10.1007/s10701-011-9537-4
- [245] A. Dvurečenskij, *The lattice and simplex structure of states on pseudo effect algebras*, Inter. J. Theor. Phys. **50** (2011), 2758-2775.
- [246] A. Dvurečenskij, *Decompositions of measures on pseudo effect algebras*, Soft Computing **15** (2011), 1825-1833. DOI: 10.1007/s00500-011-0696-1
- [247] A. Dvurečenskij, *States on quantum structures versus integrals*, Inter. J. Theor. Phys. **50** (2011), 3761-3777. DOI: 10.1007/s10773-011-0693-2
- [248] D. Buhagiar, E. Chetcuti, and A. Dvurečenskij, *Quasi-splitting subspaces and Foulis-Randall subspaces*, J. Math. Phys. **52** (2011), 123508-07. DOI:10.1063/1.3668124
- [249] A. Dvurečenskij, T. Kowalski, F. Montagna, *State morphism MV-algebras*, Inter. J. Approx. Reasoning **52** (2011), 1215-1228. DOI: 10.1016/j.ijar.2011.07.003
- [250] M. Botur, A. Dvurečenskij, T. Kowalski, *On normal-valued basic pseudo hoops*, Soft Computing **16** (2012), 635-644. DOI: 10.1007/s00500-011-0763-7
- [251] M. Botur, A. Dvurečenskij, *State-morphism algebras-general approach*, Fuzzy Sets and Systems **218** (2013), 90-102. DOI: <http://dx.doi.org/10.1016/j.fss.2012.08.013>
- [252] A. Dvurečenskij, M. Hyčko, *Hyper effect algebras*, Fuzzy Sets and Systems **326** (2017), 34-51. DOI: 10.1016/j.fss.2016.12.012
- [253] D. Buhagiar, E. Chetcuti, A. Dvurečenskij, *Completeness of inner product spaces and G. Cattaneo*, Fund. Inform. **114** (2012), 15-24.
- [254] A. Dvurečenskij, J. Rachunek, D. Šalounová, *Erratum ‘‘State operators on generalizations of fuzzy structures’’ [Fuzzy Sets and Systems **187** (2012) 58-76]*, Fuzzy Sets and Systems **194** (2012), 97-99. DOI: 10.1016/j.fss.2011.12.007

- [255] A. Dvurečenskij, Y. Xie, Aili Yang, *Discrete (n+1)-valued states and n-perfect pseudo-effect algebras*, Soft Computing **17** (2013), 1537-1552. DOI: 10.1007/s00500-013-1001-2
- [256] A. Dvurečenskij, Y. Xie, *Atomic effect algebras with the Riesz decomposition property*, Found. Phys. **47** (2012), 1078-1093. DOI: 10.1007/s10701-012-9655-7
- [257] A. Dvurečenskij, M. Kuková, *Observables on quantum structures*, Inf. Sci. **262** (2014), 215-222. DOI:10.1016/j.ins.2013.09.014
- [258] A. Dvurečenskij, *Smearing of observables and spectral measures on quantum structures*, Found. Phys. **43** (2013), 210-224 . DOI: 10.1007/s10701-012-9689-x
- [259] A. Dvurečenskij, T. Kowalski, *Kites and pseudo BL-algebras*, Algebra Universalis **71** (2014), 235-260 . DOI: 10.1007/s00012-014-0276-1
- [260] A. Dvurečenskij, *How do I-groups and po-groups appear in algebraic and quantum structures ?* In: F. Montagna et al., Petr Hájek on Mathematical Fuzzy Logic", Series: Outstanding Contributions to Logic, vol. 6, ISBN 978-3-319-06232-7, Springer 2015, pp. 177-206 . DOI: 10.1007/978-3-319-06233-4-9
- [261] A. Dvurečenskij, J. Krňávek, *The lexicographic product of po-groups and n-perfect pseudo effect algebras*, Inter. J. Theor. Phys. **52** (2013), 2760-2772. DOI:10.1007/s10773-013-1568-5
- [262] A. Dvurečenskij, M. Kolařík, *Lexicographic product vs Q-perfect and H-perfect pseudo effect algebras*, Soft Computing **17** (2014), 1041-1053. DOI: 10.1007/s00500-014-1228-6
- [263] A. Dvurečenskij, Y. Xie, *n-perfect and Q-perfect pseudo effect algebras*, Inter. J. Theor. Phys. **53** (2014), 3380-3390. DOI: 10.1007/s10773-013-1723-z
- [264] A. Dvurečenskij, *H-perfect pseudo MV-algebras and their representations*, Math. Slovaca **65** (2015), 761-788. DOI: 10.1515/ms-2015-0054
- [265] A. Dvurečenskij, J. Janda, *On bilinear forms from the point of view of generalized effect algebras*, Found. Phys. **43** (2013), 1136-1152. DOI: 10.1007/s10701-013-9736-2
- [266] A. Dvurečenskij, *States on quantum and algebraic structures and their integral representation*, Fuzzy Sets and Systems **259** (2015), 56-67. DOI 10.1016/j.fss.2013.11.005
- [267] R. A. Borzooei, A. Dvurečenskij, O. Zahiri, *State BCK-algebras and state-morphism BCK-algebras*, Fuzzy Sets and Systems **244** (2014), 86-105. DOI:10.1016/j.fss.2013.12.007

- [268] A. Dvurečenskij, *Kite pseudo effect algebras*, Found. Phys. **43** (2013), 1314-1338. DOI: 10.1007/s10701-013-9748-y
- [269] A. Dvurečenskij, W.Ch. Holland, *Some remarks on kite pseudo effect algebras*, Inter. J. Theor. Phys. **53** (2014), 1685-1696 . DOI: 10.1007/s10773-013-1966-8
- [270] A. Dvurečenskij, *Representable effect algebras and observables*, Inter. J. Theor. Phys. **53** (2014), 2855-2866. DOI: 10.1007/s10773-014-2083-z
- [271] A. Dvurečenskij, *On a new construction of pseudo effect algebras*, Soft Computing **19** (2015), 517-529. DOI: 10.1007/s00500-014-1468-5
- [272] R.A. Borzooei, A. Dvurečenskij, O. Zahiri, *L-ordered and L-lattice ordered groups*, Inform. Sci. **314** (2015), 118-134. DOI: 10.1016/j.ins.2015.03.072
- [273] A. Dvurečenskij, *On a new construction of pseudo BL-algebras*, Fuzzy Sets and Systems **271** (2015), 156-167. DOI: 10.1016/j.fss.2014.10.014
- [274] A. Dvurečenskij, O. Zahiri, *Pseudo equality algebras - revision*, Soft Computing **20** (2016), 2091-2101. DOI: 10.1007/s00500-015-1888-x
- [275] A. Dvurečenskij, *Pseudo MV-algebras and lexicographic product*, Fuzzy Sets and Systems **303** (2016), 56-79. DOI: 10.1016/j.fss.2015.09.024
- [276] A. Dvurečenskij, J. Janda, *Regular Gleason measures and generalized effect algebras*, Inter. J. Theor. Phys. **54** (2015), 4313-4326. DOI: 10.1007/s10773-015-2509-2
- [277] A. Dvurečenskij, *Lexicographic effect algebras*, Algebra Universalis **75** (2016), 451-480.
- [278] A. Dvurečenskij, O. Zahiri, *Some results on L-complete lattices*, Iranian J. Fuzzy Systems **13** (2016), 135-152.
- [279] A. Dvurečenskij, *Quantum structures versus partially ordered groups*, Inter. J. Theor. Phys. **54** (2015), 4260-4271. DOI: 10.1007/s10773-014-2479-9
- [280] M. Botur, A. Dvurečenskij, *On pseudo BL-algebras and pseudo hoops with normal maximal filters*, Soft Computing **20** (2016), 439-448. DOI: 10.1007/s00500-015-1793-3
- [281] M. Botur, A. Dvurečenskij, *Kite n-perfect pseudo effect algebras*, Rep. Math. Phys. **76** (2015), 291-315.
- [282] A. Dvurečenskij, O. Zahiri, *Orthocomplete pseudo MV-algebras*, Inter. J. General Systems **45** (2016), 889-909. DOI: 10.1080/03081079.2016.1220008
- [283] A. Dvurečenskij, *Lexicographic pseudo MV-algebras*, J. Appl. Logic **13** (2015), 825-841. DOI: 10.1016/j.jal.2015.10.001

- [284] A. Dvurečenskij, *Riesz decomposition properties and the lexicographic product of po-groups*, Soft Computing **20** (2016), 2103-2117. DOI: 10.1007/s00500-015-1903-2
- [285] A. Dvurečenskij, *Lexicographic pseudo effect algebras*, Soft Computing **21** (2017), 4981-4994. DOI: 10.1007/s00500-016-2228-5
- [286] A. Dvurečenskij, *Olson order of quantum observables*, Inter. J. Theor. Phys. **55** (2016), 4896-4912. DOI: 10.1007/s10773-016-3113-9
- [287] A. Dvurečenskij, O. Zahiri, *When lexicographic product of two po-groups has the Riesz Decomposition Property*, Algebra Universalis **78** (2017), 67-91.
- [288] A. Dvurečenskij, O. Zahiri, *On epicomplete MV-algebras*, J. Appl. Logic **5** (2018), 165-183.
- [289] A. Dvurečenskij, *Quantum observables and effect algebras*, Inter. J. Theor. Phys. **57** (2018), 637-651.
- [290] A. Dvurečenskij, *On orders of observables on effect algebras*, Inter. J. Theor. Phys. **56** (2017), 4112-4125 DOI: 10.1007/s10773-017-3472-x
- [291] A. Dvurečenskij, *Sum of observables on MV-effect algebras*, Soft Computing **22** (2018), 2485-2493. DOI: 10.1007/s00500-017-2741-1
- [292] R.A. Borzooei, A. Dvurečenskij, A. Sharafi, *Material implications in lattice effect algebras*, Infor. Sci. **433-434** (2018), 233-240.
- [293] A. Dvurečenskij, O. Zahiri, *On EMV-algebras*, Fuzzy Sets and Systems **373** (2019), 116-148.
- [294] M. Botur, A. Dvurečenskij, *Kites and residuated lattices*, Algebra Universalis **79** (2018), Art. 83. 26 p. DOI: 10.1007/s00012-018-0564-2
- [295] A. Dvurečenskij, O. Zahiri, *The Loomis-Sikorski theorem for EMV-algebras*, J. Austral. Math. Soc. **106** (2019), 200-234. DOI: 10.1017/S1446788718000101
- [296] A. Dvurečenskij, O. Zahiri, *States on EMV-algebras*, Soft Computing **23** (2019), 7513-7536. DOI: 10.1007/s00500-018-03738-x
- [297] A. Dvurečenskij, *Riesz space-valued states on pseudo MV-algebras*, J. Appl. Logic- IfCoLog Journal of Logics and their Applications **5** (2018), 1723-1764.
- [298] A. Dvurečenskij, O. Zahiri, *Morphisms on EMV-algebras and their applications*, Soft Computing **22** (2018), 7519-7537. DOI: <https://doi.org/10.1007/s00500-018-3039-7>
- [299] R.A. Borzooei, A. Dvurečenskij, A.H. Sharafi, *Generalized EMV-effect algebras*, Inter. J. Theor. Phys. **57** (2018), 2267-2279. DOI: <https://doi.org/10.1007/s10773-018-3>

- [300] A. Dvurečenskij, O. Zahiri, *Pseudo EMV-algebras. I. Basic properties*, J. Appl. Logic - IfCoLog Journal of Logics and their Applications **6** (2019), 1285-1327.
- [301] A. Dvurečenskij, O. Zahiri, *Pseudo EMV-algebras. II. Representation and states*, J. Appl. Logic- IfCoLog Journal of Logics and their Applications **6** (2019), 1329-1372.
- [302] A. Dvurečenskij, O. Zahiri, *Generalized pseudo-EMV-effect algebras*, Soft Computing **23** (2019), 9807-9819.
DOI: <https://doi.org/10.1007/s00500-019-03880-0>
- [303] A. Di Nola, A. Dvurečenskij, G. Lenzi, *Observables on perfect MV-algebras*, Fuzzy Sets and Systems **369** (2019), 57-81. DOI: <https://doi.org/10.1016/j.fss.2018.11.018>
- [304] A. Dvurečenskij, *Perfect effect algebras and spectral resolutions of observables*, Found. Phys. **49** (2019), 607-628. DOI: 10.1007/s10701-019-00238-2
- [305] A. Dvurečenskij, O. Zahiri, *EMV-pairs*, Inter. J. General Systems **48** (2019), 382-405. DOI: <https://doi.org/10.1080/03081079.2019.1584893>
- [306] A. Dvurečenskij, D. Lachman, *Spectral resolutions and observables in n-perfect MV-algebras*, Soft Computing **24** (2020), 843-860. DOI: 10.1007/s00500-019-04543-w
- [307] A. Dvurečenskij, O. Zahiri, *EMV-algebras-Extended MV-algebras*, Studia Logica In: Algebraic Perspectives on Substructural Logics, Eds. D. Fazio, A. Ledda, F. Paoli, Trends in Logic, Springer Nature Switzerland AG 2021 **55**, 2021, pp. 107-132. DOI: <https://doi.org/10.1007/978-3-030-52163-9-7>
- [308] A. Dvurečenskij, *Observables on lexicographic MV-algebras*, Inter. J. General Systems **48** (2019), 738-774. DOI: <https://doi.org/10.1080/03081079.2019.1643338>
- [309] A. Dvurečenskij, D. Lachman, *Observables on lexicographic effect algebras*, Algebra Universalis **80** (2019), Art. 49. DOI: 10.1007/s00012-019-0628-y
- [310] A. Dvurečenskij, D. Lachman, *Two-dimensional observables and spectral resolutions*, Rep. Math. Phys. **85** (2020), 163-191.
- [311] A. Dvurečenskij, D. Lachman, *Lifting, n-dimensional spectral resolutions, and n-dimensional observables*, Algebra Universalis **34** (2020), Art. Num. 34. DOI: 10.1007/s00012-020-00664-8
- [312] A. Dvurečenskij, O. Zahiri, *What are pseudo EMV-algebras?* J. Algebraic Hyperstructures and Logical Algebras **1** (2020), 1-20.
<https://doi.org/10.29252/hatef.jahla.1.1.1>

- [313] A. Dvurečenskij, *States on wEMV-algebras*, Boll. Unione Matem. Italiana **13** (2020), 515-527. DOI: 10.1007/s40574-020-00233-w
- [314] A. Dvurečenskij, D. Lachman, *Spectral resolutions and quantum observables*, Inter. J. Theor. Phys. **59** (2020), 2362-2383. DOI: 10.1007/s10773-020-04507-z
- [315] A. Dvurečenskij, O. Zahiri, *Locally σ -complete and locally complete EMV-algebras*, Soft Computing **25** (2021), 883-894. DOI: <https://doi.org/10.1007/s00500-020-05486-3>

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