# UNIVERZITA KOMENSKÉHO

## FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY
## Zoznam publikačnej činnosti

## Doc. RNDr. Peter Markoš, DrSc.

**AAA Vedecké monografie vydané v zahraničných vydavateľstvách**

AAA01 Markoš, Peter 50% - Soukoulis, Costas M. 50%: Wave Propagation: From electrons to Photonic Crystals nad Left-Handed Materials. - 1. vyd. - Princeton : Princeton University Press, 2008. - 352 s.
Lit. 168 zázn.
ISBN 978-0-691-13003-3
*Ohlasy (52):*
[o1] 2010 Asatryan, A. A. - Botten, L. C. - Byrne, M. A. - Freilikher, V. D. - Gredeskul, S. A. - Shadrivov, I. V. - McPhedran, R. C. - Kivshar, Y. S.: Effects of polarization on the transmission and localization of classical waves in weaklyscattering metamaterials. In: Physical Review B, Vol. 82, No. 20, 2010, Art. No. 205124 - SCI
[o1] 2010 Asatryan, A. A. - Gredeskul, S. A. - Botten, L. C. - Byrne, M. A. - Freilikher, V. D. - Shadrivov, I. V. - McPhedran, R. C. - Kivshar, Y. S.: Anderson localization of classical waves in weakly scattering metamaterials. In: PhysicalReview B, Vol. 81, No. 7, 2010, Art. No. 075124 - SCI
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**ABB Štúdie v časopisoch a zborníkoch charakteru vedeckej monografie vydané v domácich vydavateľstvách**

ABB01 Markoš, Peter 100%: Numerical analysis of the Anderson localization
Lit. 190 zázn., 77 obr.
In: Acta Physica Slovaca. - Vol. 56, No. 5 (2006), s. 561-685
*Ohlasy (33):*
[o1] 2007 Garcia-Garcia, A. M. - Cuevas, E.: Dimensional dependence of the metal-insulator transition. In: Physical Review B, Vol. 75, No. 17, 2007, Art. No. 174203 - SCI
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**ADC Vedecké práce v zahraničných karentovaných časopisoch**

ADC01 Markoš, Peter 100%: Electron transport in strongly disordered structures
Lit. 23 zázn., 5 obr.
In: Physica B - Condensed Matter. - Vol. 405, No. 14 (2010), s. 3029-3032
[Electrical Transport and Optical Properties of Inhomogeneous Media 2009 : International Conference. 8th, Rethymnon, 7.-12.6.2009]

ADC02 Majerníková, Eva 50% - Markoš, Peter 50%: Retardation effects: Localized excitations of a soliton in a model of a one-dimensional electron-phonon (Peierls) system
Lit. 15 zázn., 3 obr.
In: Physics Letters A. - Vol. 123, No. 7 (1987), s. 352-356

ADC03 Majerníková, Eva 50% - Markoš, Peter 50%: Quantum fluctuations of a polaron due to the fnite ionic mass in a model of a one-dimensional electron - phonon Peierls system
Lit. 10 zázn., 4 obr.
In: Physics Letters A. - Vol. 127, No. 4 (1988), s. 216-220

ADC04 Markoš, Peter 100%: The one-dimensional Anderson model -a supersymmetric treatment
Lit. 22 zázn., 4 obr.
In: Journal of Physics C - Solid State Physics. - Vol. 21, No. 14 (1988), s. 2647-2664
*Ohlasy (5):*
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In: Zeitschrift für Physik B - Condensed Matter. - Vol. 73, No. 1 (1988), s. 17-21

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ADC06 Markoš, Peter 100%: Lyapunov exponents of quasi-one dimensional random systems: weak disorder expansion
Lit. 15 zázn.
In: Journal of Physics C - Solid State Physics. - Vol. 21, No. 10 (1988), s. L317-L323
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ADC07 Markoš, Peter 100%: Quasi-one-dimensional random systems: weak disorder expansion of Lyapunov exponents
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In: Journal of Physics - Condensed Matter. - Vol. 1, No. 28 (1989), s. 4611-4621
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Lit. 20 zázn., 5 obr.
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Lit. 23 zázn., 8 obr.
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ADC31 Rühländer, Marc 34% - Markoš, Peter 33% - Soukoulis, Costas M. 33%: Probability distribution of the conductance in anisotropic systems
Lit. 23 zázn., 3 obr.
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Lit. 22 zázn., 4 obr., 1 tab.
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ADC33 Rühländer, Marc 34% - Markoš, Peter 33% - Soukoulis, Costas M. 33%: Conductance fluctuations and boundary conditions
Lit. 12 zázn., 5 obr.
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Lit. 24 zázn., 4 obr.
In: Physical Review Letters. - Vol. 86, No. 16 (2001), s. 3594-3597
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ADC55 Markoš, Peter 50% - Soukoulis, Costas M. 50%: Intensity distribution of scalar waves propagating in random media
Lit. 28 zázn., 12 obr.
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ADC56 Muttalib, Khandker A. 34% - Markoš, Peter 33% - Wölfle, Peter 33%: Conductance distribution in strongly disordered mesoscopic systems in three dimensions
Lit. 33 zázn., 30 obr.
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Lit. 38 zázn., 3 obr.
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ADC58 Brndiar, Ján 50% - Markoš, Peter 50%: Universality of the metal-insulator transition in three-dimensional disordered systems
Lit. 19 zázn., 6 obr., 1 tab.
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ADC59 Markoš, Peter 50% - Schweitzer, Ludwig 50%: Critical regime of two-dimensional Ando model: relation between critical conductance and fractal dimension of electronic eigenstates
Lit. 11 zázn., 7 obr.
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ADC60 Brndiar, Ján 34% - Derian, René 33% - Markoš, Peter 33%: Generalized Dorokhov-Mello-Pereyra-Kumar equation for strongly localized regime: Numerical solution
Lit. 21 zázn., 5 obr.
In: Physical Review B. - Vol. 76, No. 15 (2007), Art. No. 155320, s. 1-4
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ADC61 Markoš, Peter 50% - Schweitzer, Ludwig 50%: Critical conductance of two-dimensional chiral systems with random magnetic flux
Lit. 44 zázn., 12 obr.
In: Physical Review B. - Vol. 76, No. 11 (2007), Art. No. 115318, s. 1-8
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ADC62 Brndiar, Ján 50% - Markoš, Peter 50%: Character of eigenstates of the three-dimensional disordered Hamiltonian
Lit. 40 zázn., 9 obr.
In: Physical Review B. - Vol. 77, No. 11 (2008), Art. No. 115131, s. 1-7
URL: http://arxiv.org/pdf/0801.1610v2.pdf
POZNÁMKA: Vyšlo aj ako preprint - arXiv.org: Condensed Matter - Disordered Systems and Neural Networks. - No. cond-mat.dis-nn 0801.1610 (2008), 8 s. -
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ADC63 Schweitzer, Ludwig 50% - Markoš, Peter 50%: Critical conductance of the chiral two-dimensional random flux model

Lit. 9 zázn., 4 obr.
In: Physica E - Low-Dimensional Systems & Nanostructures. - Vol. 40, No. 5 (2008), s. 1335-1337
[Electronic Properties of Two-Dimensional Systems : International Conference. 17th, Genoa, 15.-20.7.2007]

ADC64 Schweitzer, Ludwig 50% - Markoš, Peter 50%: Disorder-driven splitting of the conductance peak at the Dirac point in graphene
Lit. 54 zázn., 11 obr.
In: Physical Review B. - Vol. 78, No. 20 (2008), Art. No. 205419, s. 1-8
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ADC65 Markoš, Peter 100%: Two-dimensional electron systems beyond the diffusive regime
Lit. 32 zázn., 10 obr.
In: Physical Review B. - Vol. 82, No. 9 (2010), Art. No. 094203, s. 1-7

ADC66 Markoš, Peter 50% - Schweitzer, Ludwig 50%: Logarithmic scaling of Lyapunov exponents in disordered chiral two-dimensional lattices
Lit. 30 zázn., 6 obr.
In: Physical Review B. - Vol. 81, No. 20 (2010), Art. No. 205432, s. 1-5
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ADC67 Markoš, Peter 50% - Schweitzer, Ludwig 50%: Role of the symmetry parameter beta in the strongly localized regime
Lit. 21 zázn., 6 obr.
In: Physical Review B. - Vol. 82, No. 11 (2010), Art. No. 113412, s. 1-4

ADC68 Váry, Tomáš 50% - Markoš, Peter 50%: Scattering of the surface plasmon polaritons on the interface between two dielectrics
Lit. 9 zázn., 5 obr.
In: Physica B - Condensed Matter. - Vol. 405, No. 14 (2010), s. 2982-2985
[Electrical Transport and Optical Properties of Inhomogeneous Media 2009 : International Conference. 8th, Rethymnon, 7.-12.6.2009]

ADC69 Markoš, Peter 50% - Schweitzer, Ludwig 50%: Disordered two-dimensional electron systems with chiral symmetry
Lit. 47 zázn., 10 obr.
In: Physica B - Condensed Matter. - Vol. 407, No. 20 (2012), s. 4016-4022

[WavePro 2011 : Wave Propagation - From Electrons to Photonic Crystals and Metamaterials : Conference. Rethymnon, 8.-11.6.2011]

ADC70 Schweitzer, Ludwig 50% - Markoš, Peter 50%: Scaling at chiral quantum critical points in two dimensions
Lit. 42 zázn., 2 obr.
In: Physical Review B. - Vol. 85, No. 19 (2012), Art. No. 195424, s. 1-7
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ADF Vedecké práce v domácich nekarentovaných časopisoch (5)
AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (1)
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