

## COBISS Co-operative Online Bibliographic system &amp; services COBISS

## MARKO ROBNIK [11337]

## Personal bibliography for the period

1978-2014

## ARTICLES AND OTHER COMPONENT PARTS

## 1.01 Original scientific article

1. ANDRESAS, Dimitris, ROBNIK, Marko. Statistical properties of the energy in time-dependent homogeneous power law potentials. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2014, vol. 47, issue 35, str. 355102-1 - 355102-10, doi: [10.1088/1751-8113/47/35/355102](https://doi.org/10.1088/1751-8113/47/35/355102). [COBISS.SI-ID [79388417](#)]
2. GRUBELNIK, Vladimir, LOGAR, Marjan, ROBNIK, Marko. Quantum Fermi acceleration in the resonant gaps of a periodically driven one-dimensional potential box. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2014, vol. 47, no. 35, str. 355103-1 - 355103-17, doi: [10.1088/1751-8113/47/35/355103](https://doi.org/10.1088/1751-8113/47/35/355103). [COBISS.SI-ID [18017814](#)]
3. MANOS, Thanos, ROBNIK, Marko. Survey on the role of accelerator modes for anomalous diffusion : the case of the standard map. *Physical review. E, Statistical, nonlinear and soft matter physics*, ISSN 1550-2376. [Online ed.], 2014, vol. 89, iss. 2, str. 022905-1 - 022905-12, graf. prikazi, doi: [10.1103/PhysRevE.89.022905](https://doi.org/10.1103/PhysRevE.89.022905). [COBISS.SI-ID [77280257](#)]
4. ANDRESAS, Dimitris, BATISTIĆ, Benjamin, ROBNIK, Marko. Statistical properties of one-dimensional parametrically kicked Hamilton systems. *Physical review. E, Statistical, nonlinear, and soft matter physics*, ISSN 1539-3755, 2014, vol. 89, no. 6, str. 062927-1-062927-14, graf. prikazi, doi: [10.1103/PhysRevE.89.062927](https://doi.org/10.1103/PhysRevE.89.062927). [COBISS.SI-ID [78977281](#)]
5. BATISTIĆ, Benjamin, MANOS, Thanos, ROBNIK, Marko. The intermediate level statistics in dynamically localized chaotic eigenstates. *Europhysics letters*, ISSN 0295-5075, 2013, vol. 102, no. 5, str. 50008-1-50008-6. [http://iopscience.iop.org/0295-5075/102/5/50008/pdf/0295-5075\\_102\\_5\\_50008.pdf](http://iopscience.iop.org/0295-5075/102/5/50008/pdf/0295-5075_102_5_50008.pdf), doi: [10.1209/0295-5075/102/50008](https://doi.org/10.1209/0295-5075/102/50008). [COBISS.SI-ID [74806017](#)]
6. BATISTIĆ, Benjamin, ROBNIK, Marko. Dynamical localization of chaotic eigenstates in the mixed-type systems: spectral statistics in a billiard system after separation of regular and chaotic eigenstates. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2013, vol. 46, no. 31, str. 315102-1-315102-17. [http://iopscience.iop.org/1751-8121/46/31/315102/pdf/1751-8121\\_46\\_31\\_315102.pdf](http://iopscience.iop.org/1751-8121/46/31/315102/pdf/1751-8121_46_31_315102.pdf), doi: [10.1088/1751-8113/46/31/315102](https://doi.org/10.1088/1751-8113/46/31/315102). [COBISS.SI-ID [75147009](#)]
7. MANOS, Thanos, ROBNIK, Marko. Dynamical localization in chaotic systems: spectral statistics and localization measure in the kicked rotator as a paradigm for time-dependent and time-independent systems. *Physical review. E, Statistical, nonlinear and soft matter physics*, ISSN 1550-2376. [Online ed.], 2013, vol. 87, iss. 6, str. 062905-1 - 062905-17, graf. prikazi. <http://pre.aps.org/pdf/PRE/v87/i6/e062905>, doi: [10.1103/PhysRevE.87.062905](https://doi.org/10.1103/PhysRevE.87.062905). [COBISS.SI-ID [74771713](#)]
8. BATISTIĆ, Benjamin, ROBNIK, Marko. Quantum localization of chaotic eigenstates and the level spacing distribution. *Physical review. E, Statistical, nonlinear and soft matter physics*, ISSN 1550-2376. [Online ed.], 2013, vol. 88, no. 5, str. 052913-1 - 052913-7, doi: [10.1103/PhysRevE.88.052913](https://doi.org/10.1103/PhysRevE.88.052913). [COBISS.SI-ID [76225025](#)]
9. OLIVEIRA, Diego Fregolente Mendes de, ROBNIK, Marko. Scaling invariance in a time-dependent elliptical billiard. *International journal of bifurcation and chaos in applied sciences and engineering*, ISSN 0218-1274, 2012, vol. 22, no. 9, str. 1250207-1 - 1250207-7, doi: [10.1142/S0218127412502070](https://doi.org/10.1142/S0218127412502070). [COBISS.SI-ID [71806977](#)]
10. PAPAMIKOS, Georgios, ROBNIK, Marko. WKB approach applied to 1D time-dependent nonlinear Hamiltonian oscillators. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2012, vol. 45, no. 1, str. 015206-1 - 015206-11. <http://iopscience.iop.org/1751-8121/45/1/015206/>, doi: [10.1088/1751-8113/45/1/015206](https://doi.org/10.1088/1751-8113/45/1/015206). [COBISS.SI-ID [68382465](#)]
11. PAPAMIKOS, Georgios, SOWDEN, Benjamin Choyce, ROBNIK, Marko. Dynamical statistical properties of piecewise linearly periodically

modulated quartic oscillator. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2012, vol. 15, no. 3, str. 227-240. [COBISS.SI-ID [72962049](#)]

12. OLIVEIRA, Diego Fregolente Mendes de, ROBNIK, Marko, LEONEL, Edson D. Statistical properties of a dissipative kicked system: critical exponents and scaling invariance. *Physics letters. Section A*, ISSN 0375-9601. [Print ed.], 2012, vol. 376, issue 5, str. 723-728. <http://www.sciencedirect.com/science/article/pii/S0375960111014976>, doi: [10.1016/j.physleta.2011.07.045](https://doi.org/10.1016/j.physleta.2011.07.045). [COBISS.SI-ID [70483201](#)]

13. OLIVIERA, M., ROBNIK, Marko, LEONEL, Edson D. Shrimp-shape domains in a dissipative kicked rotator. *Chaos*, ISSN 1054-1500, 2011, vol. 21, iss. 4, str. 043122-1 - 043122-6, graf. prikazi, doi: [10.1063/1.3657917](https://doi.org/10.1063/1.3657917). [COBISS.SI-ID [68014593](#)]

14. OLIVIERA, M., ROBNIK, Marko, LEONEL, Edson D. Dynamical properties of a particle in a wave packet : scaling invariance and boundary crisis. *Chaos, solitons and fractals*. [Print ed.], 2011, vol. 44, iss. 10, str. 883-890, graf. prikazi, doi: [10.1016/j.chaos.2011.07.001](https://doi.org/10.1016/j.chaos.2011.07.001). [COBISS.SI-ID [68015105](#)]

15. PAPAMIKOS, Georgios, ROBNIK, Marko. Statistical properties of 1D time-dependent Hamiltonian systems: from the adiabatic limit to the parametrically kicked systems. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2011, vol. 44, str. 315102-1 - 315102-29. <http://iopscience.iop.org/1751-8121/44/31/315102/>, doi: [10.1088/1751-8113/44/31/315102](https://doi.org/10.1088/1751-8113/44/31/315102). [COBISS.SI-ID [67549697](#)]

16. BATISTIĆ, Benjamin, ROBNIK, Marko. Fermi acceleration in time-dependent billiards: theory of the velocity diffusion in conformally breathing fully chaotic billiards. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2011, vol. 44, str. 365101-1 - 365101-21. <http://iopscience.iop.org/1751-8121/44/36/365101/>, doi: [10.1088/1751-8113/44/36/365101](https://doi.org/10.1088/1751-8113/44/36/365101). [COBISS.SI-ID [67549185](#)]

17. OLIVEIRA, Diego Fregolente Mendes de, ROBNIK, Marko. In-flight dissipation as a mechanism to suppress Fermi acceleration. *Physical review. E, Statistical, nonlinear, and soft matter physics*, ISSN 1539-3755, 2011, vol. 83, issue 2, str. 026202-1 - 026202-5. [http://apps.isiknowledge.com/full\\_record.do?product=WOS&search\\_mode=GeneralSearch&qid=3&SID=W22@iOM5b9PI3nn445K&page=1&doc=1](http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=3&SID=W22@iOM5b9PI3nn445K&page=1&doc=1), doi: [10.1103/PhysRevE.83.026202](https://doi.org/10.1103/PhysRevE.83.026202). [COBISS.SI-ID [66907905](#)]

18. OLIVEIRA, Diego Fregolente Mendes de, LEONEL, Edson D., ROBNIK, Marko. Boundary crisis and transient in a dissipative relativistic standard map. *Physics letters. Section A*, ISSN 0375-9601. [Print ed.], 2011, vol. 375, issue 38, str. 3365-3369. <http://www.sciencedirect.com/science/article/pii/S0375960111009170>, doi: [10.1016/j.physleta.2011.07.045](https://doi.org/10.1016/j.physleta.2011.07.045). [COBISS.SI-ID [67548673](#)]

19. BATISTIĆ, Benjamin, ROBNIK, Marko. Semiempirical theory of level spacing distribution beyond the Berry-Robnik regime : modeling the localization and the tunneling effects. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2010, issue 21, vol. 43, str. 215101-1-215101-28, doi: [10.1088/1751-8113/43/21/215101](https://doi.org/10.1088/1751-8113/43/21/215101). [COBISS.SI-ID [64947713](#)]

20. ROBNIK, Marko, DAVID, Helena May, VIDMAR, Gregor, ROMANOVSKI, Valery. Numerical studies of non-gaussian real symmetric random matrices : confirmation of the Brezin-Zee-Hackenbroich-Weidenmüller Theory. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2010, vol. 13, no. 1, str. 13-23, ilustr. [COBISS.SI-ID [1618791](#)]

21. BÄCKER, A., KETZMERICK, R., LÖCK, S., ROBNIK, Marko, VIDMAR, Gregor, HÖHMANN, Ruven, KUHL, Ulrich, STÖCKMANN, Hans-Jürgen, et al. Dynamical tunneling in mushroom billiards. *Physical review letters*, ISSN 0031-9007. [Print ed.], 2008, 100, str. 174103-1 - 174103-4. [COBISS.SI-ID [60794881](#)]

22. CVETIČ, Mirjam, ROBNIK, Marko. Gravity trapping on a finite thickness domain wall : an analytic study. *Physical review. D, Particles, fields, gravitation, and cosmology*, ISSN 1550-7998, 2008, vol. 77, iss. 12, str. 124003-1 - 124003-7. [COBISS.SI-ID [62112001](#)]

23. ROBNIK, Marko, ROMANOVSKI, Valery. The difference equation related to the problem of the hydrogen atom in a strong magnetic field. *Electronic transactions on numerical analysis*, ISSN 1068-9613, 2007, vol. 27, str. 163-176. [COBISS.SI-ID [60777217](#)]

24. GROSSMANN, Siegfried, ROBNIK, Marko. On level spacing distributions for 2D non-normal Gaussian random matrices. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2007, 40, str. 409-421. [COBISS.SI-ID [58751489](#)]

25. VIDMAR, Gregor, STÖCKMANN, Hans-Jürgen, ROBNIK, Marko, KUHL, Ulrich, HÖHMANN, Ruven, GROSSMANN, Siegfried. Beyond the Berry-Robnik regime : a random matrix study of tunneling effects. *Journal of physics. A, Mathematical and theoretical*, ISSN 1751-8113, 2007, vol. 40, no. 46, str. 13883-13905. [COBISS.SI-ID [59582209](#)]

26. VEBLE, Gregor, PROSEN, Tomaž, ROBNIK, Marko. Expanded boundary integral method and chaotic time-reversal in quantum billiards. *New journal of physics*, ISSN 1367-2630. [Online ed.], 2007, 9, str.1-17. [COBISS.SI-ID [1975652](#)]

27. KUZMIN, Andrei V., ROBNIK, Marko. Energy evolution in time-dependent harmonic oscillator with arbitrary external forcing. *Reports on mathematical physics*, ISSN 0034-4877. [Print ed.], 2007, vol. 60, no. 1, str. [69]-84. [COBISS.SI-ID [60794625](#)]

28. GROSSMANN, Siegfried, ROBNIK, Marko. Some generic properties of level spacing distributions of 2D real random matrices. *Zeitschrift für Naturforschung. A, A journal of physical sciences*, ISSN 0932-0784, 2007, vol. 62a, no. 9, str. 471-482. [COBISS.SI-ID [59581953](#)]

29. ROBNIK, Marko. Autocorrelation functions and form factors of statistically independent superposition of spectral sequences. *International journal of bifurcation and chaos in applied sciences and engineering*, ISSN 0218-1274, 2006, vol. 16, no. 6, str. 1849-1853. [COBISS.SI-ID [58751745](#)]

30. ROBNIK, Marko, ROMANOVSKI, Valery. Exact analysis of adiabatic invariants in the time-dependent harmonic oscillators. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2006, 39, str. L35-L41. [COBISS.SI-ID [56349185](#)]

31. ROBNIK, Marko, ROMANOVSKI, Valery, STÖCKMANN, Hans-Jürgen. Exact energy distribution function in a time-dependent harmonic oscillator. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2006, 39, str. L551-L554. [COBISS.SI-ID [58752257](#)]
32. ROBNIK, Marko, WOOD, Thomas A. Testing adiabatic invariance in separatrix crossing. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2006, let. 9, št. 2, str. 141-149. [COBISS.SI-ID [58752001](#)]
33. ROBNIK, Marko, ROMANOVSKI, Valery. Energy evolution in time-dependent harmonic oscillator. *Open systems & information dynamics*, ISSN 1230-1612. [Print ed.], 2006, 13, str. 197-222. [COBISS.SI-ID [58752513](#)]
34. ROBNIK, Marko. The notion and aspects of quantum integrability. *Bussei Kenkyu*, ISSN 0525-2997, 2005, vol. 84, no. 3, str. 541-545. [COBISS.SI-ID [56685313](#)]
35. VRANIČAR, Marko, ROBNIK, Marko.  $1$  noise in spectral fluctuations of quantum systems. *Physical review letters*, ISSN 0031-9007. [Print ed.], 2005, 94, str. 084101-1 - 084101-4. [COBISS.SI-ID [56349697](#)]
36. ROBNIK, Marko. Quantum chaos in generic systems. *Bussei Kenkyu*, ISSN 0525-2997, 2004, vol. 82, str. 662-665. [COBISS.SI-ID [54442753](#)]
37. ROBNIK, Marko, ROMANOVSKI, Valery. Two-dimensional hydrogen atom in a strong magnetic field. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2003, 36, str. 7923-7951. [COBISS.SI-ID [51277057](#)]
38. ROMANOVSKI, Valery, ROBNIK, Marko. Computation of the center isochronism conditions for polynomial systems. *Differential equations*, ISSN 0012-2661, 2002, 38, 2, str. 205-211. [COBISS.SI-ID [50777857](#)]
39. VEBLE, Gregor, ROBNIK, Marko, ROMANOVSKI, Valery. Semiclassical analysis of Wigner functions. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2002, 35, str. 4151-4168. [COBISS.SI-ID [50684673](#)]
40. VRANIČAR, Marko, BARTH, Michael, VEBLE, Gregor, ROBNIK, Marko, STÖCKMANN, Hans-Jürgen. "Persistent currents" and eigenfunctions in microwave resonators with broken time-reversal symmetry. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2002, 35, str. 4929-4947. [COBISS.SI-ID [50685441](#)]
41. ROBNIK, Marko, ROMANOVSKI, Valery. Atoms in strong magnetic fields : some new analytic results. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2002, 5, 4, str. 445-456. [COBISS.SI-ID [50685185](#)]
42. KRYLOV, George, ROBNIK, Marko. Polynomial families and Schrödinger equation : one example for nonhypergeometric type of correspondence. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2001, 34, str. 5403-5415. [COBISS.SI-ID [47309825](#)]
43. ROMANOVSKI, Valery, ROBNIK, Marko. The centre and isochronicity problems for some cubic systems. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2001, 34, str. 10267-10292. [COBISS.SI-ID [47308545](#)]
44. ROMANOVSKI, Valery, ROBNIK, Marko, ROMANOVSKAYA, Olga. The isochronicity conditions for some cubic systems. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2001, 4, 2, str. 116-122. [COBISS.SI-ID [47311105](#)]
45. KRYLOV, George, ROBNIK, Marko. On one-dimensional Schrödinger problems allowing polynomial solutions. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2000, 33, str. 1233-1245. [COBISS.SI-ID [45269505](#)]
46. ROBNIK, Marko, ROMANOVSKI, Valery. Some properties of WKB series. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2000, 33, str. 5093-5104. [COBISS.SI-ID [45271297](#)]
47. ROMANOVSKI, Valery, ROBNIK, Marko. Exact WKB expansions for some potentials. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 2000, 33, str. 8549-8557. [COBISS.SI-ID [45924865](#)]
48. ROBNIK, Marko, SALASNICH, Luca. Semiclassical expansion for the angular momentum. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2000, 3, 1, str. 99-103. [COBISS.SI-ID [45270529](#)]
49. ROMANOVSKI, Valery, ROBNIK, Marko. On WKB series for the radial Kepler problem. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2000, 3, 3, str. 214-219. [COBISS.SI-ID [45925377](#)]
50. VRANIČAR, Marko, ROBNIK, Marko. Accuracy of the WKB approximation : the case of general quartic potential. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 2000, no. 139, str. 214-233. [COBISS.SI-ID [45272833](#)]
51. VEBLE, Gregor, KUHLE, Ulrich, ROBNIK, Marko, STÖCKMANN, Hans-Jürgen, LIU, Junxian, BARTH, Michael. Experimental study of generic billiards with microwave resonators. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 2000, no. 139, str. 283-300. [COBISS.SI-ID [45272577](#)]
52. ROBNIK, Marko, ROMANOVSKI, Valery. On the semiclassical expansion for 1-dim  $x$  potentials. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 2000, no. 139, str. 399-403. [COBISS.SI-ID [45272321](#)]
53. VEBLE, Gregor, ROBNIK, Marko, LIU, Junxian. Study of regular and irregular states in generic systems. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 2000, no. 139, str. 421-427. [COBISS.SI-ID [45272065](#)]
54. ROBNIK, Marko, VEBLE, Gregor. Study of spectral statistics of classically integrable systems. *Progress of theoretical physics. Supplement*,

ISSN 0375-9687, 2000, no. 139, str. 544-549. [COBISS.SI-ID [45271809](#)]

55. ROBNIK, Marko, SALASNICH, Luca, VRANIČAR, Marko. High order WKB prediction of the energy splitting in the symmetric double well potential. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 2000, no. 139, str. 550-557. [COBISS.SI-ID [45271553](#)]

56. PROSEN, Tomaž, ROBNIK, Marko. Intermediate E(k,L) statistics in the regime of mixed classical dynamics. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, 32, str. 1863-1873. [COBISS.SI-ID [43736065](#)]

57. VEBLE, Gregor, ROBNIK, Marko, LIU, Junxian. Study of regular and irregular states in generic systems. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, 32, str. 6423-6444. [COBISS.SI-ID [44249089](#)]

58. ROBNIK, Marko, PROSEN, Tomaž, DOBNIKAR, Jure. Multi-component random model of diffusion in chaotic systems. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, letn. 32, str. 1147-1162. [COBISS.SI-ID [43735553](#)]

59. KRYLOV, George, ROBNIK, Marko. On the Green function of linear evolution equations for a region with a boundary. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, letn. 32, str. 1261-1267. [COBISS.SI-ID [43736321](#)]

60. ROBNIK, Marko, ROMANOVSKI, Valery. On Urabe's criteria of isochronicity. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, letn. 32, str. 1279-1283. [COBISS.SI-ID [43736577](#)]

61. ROBNIK, Marko, PROSEN, Tomaž, DOBNIKAR, Jure. Energy level statistics in the transition regime between integrability and chaos for systems without an anti-unitary symmetry. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1999, letn. 32, str. 1427-1438. [COBISS.SI-ID [43735809](#)]

62. ROBNIK, Marko, SALASNICH, Luca, VRANIČAR, Marko. WKB corrections to the energy splitting in double well potentials. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 1999, vol. 2, no. 2, str. 49-62. [COBISS.SI-ID [44525057](#)]

63. PROSEN, Tomaž, ROBNIK, Marko. General Poissonian model of diffusion in chaotic components. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1998, 31, str. L345-L353. [COBISS.SI-ID [618340](#)]

64. ROBNIK, Marko, VEBLE, Gregor. On spectral statistics of classically integrable systems. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, vol. 31, 1998, str. 4669-4704. [COBISS.SI-ID [42662657](#)]

65. ROBNIK, Marko. Topics in quantum chaos of generic systems. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 1998, 1, št. 1, str. 1-22. [COBISS.SI-ID [43344641](#)]

66. LI, Baowen, ROBNIK, Marko, HU, Bambi. Relevance of chaos in numerical solutions of quantum billiards. *Physical review. E*, ISSN 1063-651X, 1998, vol. 57, no. 4, str. 4095-4106. [COBISS.SI-ID [42671361](#)]

67. KUNDT, W..., ROBNIK, Marko. Water pumps in plant roots. *Russian journal of plant physiology*, ISSN 1021-4437, 1998, 45, st. 2, str. [262]-269. [COBISS.SI-ID [43326977](#)]

68. ROBNIK, Marko, DOBNIKAR, Jure, RAPISARDA, Andrea, PROSEN, Tomaž, PETKOVŠEK, Marko. New universal aspects of diffusion in strongly chaotic systems. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1997, let. 30, str. L803-L813, graf. prikazi. [COBISS.SI-ID [7941977](#)]

69. ROBNIK, Marko. Supersymmetric quantum mechanics based on higher excited states. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1997, vol. 30, str. 1287-1294. [COBISS.SI-ID [42644737](#)]

70. ROBNIK, Marko, SALASNICH, Luca. WKB to all orders and the accuracy of the semiclassical quantization. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1997, vol. 30, str. 1711-1718. [COBISS.SI-ID [42647297](#)]

71. ROBNIK, Marko, SALASNICH, Luca. WKB expansion for the angular momentum and the Kepler problem : from the torus quantization to the exact one. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1997, vol. 30, str. 1719-1729. [COBISS.SI-ID [42661377](#)]

72. ROBNIK, Marko, PROSEN, Tomaž. Comment on energy level statistics in the mixed regime. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1997, vol. 30, str. 8787-8793. [COBISS.SI-ID [566628](#)]

73. ROBNIK, Marko. Aspects of quantum chaos in generic systems. *Open systems & information dynamics*, ISSN 1230-1612. [Print ed.], 1997, vol. 4, str. 211-240. [COBISS.SI-ID [42663169](#)]

74. LI, Baowen, ROBNIK, Marko. Sensitivity of the eigenfunctions and the level curvature distribution in quantum billiards. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1996, vol. 29, str. 4387-4405. [COBISS.SI-ID [42644481](#)]

75. ROBNIK, Marko. The energy level statistics of Hamiltonian systems between integrability and chaos : the semiclassical limit. *Mathematics and computers in simulation*, ISSN 0378-4754. [Print ed.], 1996, vol. 40, str. 159-179. [COBISS.SI-ID [42672641](#)]

76. LI, Baowen, ROBNIK, Marko. Geometry of high-lying eigenfunctions in a plane billiard system having mixed-type classical dynamics. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1995, vol. 28, str. 2799-2818. [COBISS.SI-ID [39070977](#)]

77. LI, Baowen, ROBNIK, Marko. Separating the regular and irregular energy levels and their statistics in a Hamiltonian system with mixed classical

dynamics. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1995, vol. 28, str. 4843-4857. [COBISS.SI-ID [39071233](#)]

78. ROBNIK, Marko. Chaos and revolutions in 20th-century science. *Open systems & information dynamics*, ISSN 1230-1612. [Print ed.], 1995, vol. 3, no. 1, str. 3-22. [COBISS.SI-ID [42663937](#)]

79. PROSEN, Tomaž, ROBNIK, Marko. Numerical demonstration of the Berry-Robnik level spacing distribution. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1994, vol. 27, str. L459-L466. [COBISS.SI-ID [39069697](#)]

80. LI, Baowen, ROBNIK, Marko. Statistical properties of high-lying chaotic eigenstates. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1994, vol. 27, str. 5509-5523. [COBISS.SI-ID [39124481](#)]

81. PROSEN, Tomaž, ROBNIK, Marko. Semiclassical energy level statistics in the transition region between integrability and chaos: transition from Brody-like to Berry-Robnik behaviour. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1994, vol. 27, str. 8059-8077. [COBISS.SI-ID [39070209](#)]

82. HASEGAWA, Hiroshi, ROBNIK, Marko. On the applicability of the energy level dynamics for the Hamiltonian systems in the transition region between integrability and chaos. *Europhysics letters*, ISSN 0295-5075, 1993, 23, 3, str. 171-177. [COBISS.SI-ID [39088897](#)]

83. PROSEN, Tomaž, ROBNIK, Marko. Failure of semiclassical methods to predict individual energy levels. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1993, vol. 26, str. L37-L44. [COBISS.SI-ID [39068929](#)]

84. PROSEN, Tomaž, ROBNIK, Marko. Distribution and fluctuation properties of transition probabilities in a system between integrability and chaos. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1993, vol. 26, str. L319-L326. [COBISS.SI-ID [39037953](#)]

85. PROSEN, Tomaž, ROBNIK, Marko. Energy level statistics and localization in sparsely banded random matrix ensemble. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1993, vol. 26, str. 1105-1114. [COBISS.SI-ID [39037697](#)]

86. PROSEN, Tomaž, ROBNIK, Marko. Energy level statistics in the transition region between integrability and chaos. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1993, vol. 26, str. 2371-2387. [COBISS.SI-ID [39123969](#)]

87. PROSEN, Tomaž, ROBNIK, Marko. Survey of the eigenfunctions of a billiard system between integrability and chaos. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1993, vol. 26, str. 5365-5373. [COBISS.SI-ID [39124225](#)]

88. ROBNIK, Marko. On the pade approximations to the Birkhoff-Gustavson normal form. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, Dec. 1993, vol. 26, no. 24, str. 7427-7434. [COBISS.SI-ID [517119513](#)]

89. ROBNIK, Marko. Improved statistics of energy levels for Aharonov-Bohm chaotic billiards. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1992, vol. 25, str. 1399-1403. [COBISS.SI-ID [39032833](#)]

90. PROSEN, Tomaž, ROBNIK, Marko. Energy transport and detailed verification of Fourier heat law in a chain of colliding harmonic oscillators. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1992, vol. 25, str. 3449-3472. [COBISS.SI-ID [39036161](#)]

91. ROBNIK, Marko. Improved energy level statistics for a family of billiards with analytic boundaries. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1992, vol. 25, str. 3593-3602. [COBISS.SI-ID [39032321](#)]

92. KALUŽA, Matjaž, ROBNIK, Marko. Improved accuracy of the Birkhoff-Gustavson normal form and its convergence properties. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1992, vol. 25, str. 5311-5327. [COBISS.SI-ID [39033857](#)]

93. ROBNIK, Marko. One new theoretical model for the energy spectrum of cosmic rays. *Progress of theoretical physics*, ISSN 0033-068X, 1990, vol. 83, no. 3, str. 345-349. [COBISS.SI-ID [39127553](#)]

94. ROBNIK, Marko. A note on the level spacings distribution of the Hamiltonians in the transition region between integrability and chaos. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1987, vol. 20, str. L495-L502. [COBISS.SI-ID [39032065](#)]

95. ROBNIK, Marko, FRITZ, Klaus Dieter, SCHRÜFER, Eberhard. Propagation of relativistic plasma waves: global nonlinear aspects. *Astronomy & astrophysics*, ISSN 0004-6361, 1986, 165, str. 254-268. [COBISS.SI-ID [39077121](#)]

96. BERRY, Michael V., ROBNIK, Marko. Statistics of energy levels without time-reversal symmetry: Aharonov-Bohm chaotic billiards. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986, vol. 19, str. 649-668. [COBISS.SI-ID [39022081](#)]

97. ROBNIK, Marko, BERRY, Michael V. False time-reversal violation and energy level statistics: the role of anti-unitary symmetry. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986, vol. 19, str. 669-682. [COBISS.SI-ID [39022849](#)]

98. ROBNIK, Marko. A note concerning quantum integrability. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986, vol. 19, str. L841-L847. [COBISS.SI-ID [39031809](#)]

99. BERRY, Michael V., ROBNIK, Marko. Quantum states without time-reversal symmetry: wavefront dislocations in a non-integrable Aharonov-Bohm billiard. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986, vol. 19, str. 1365-1372. [COBISS.SI-ID [39027969](#)]

100. ROBNIK, Marko. Perimeter correction to the Landau diamagnetism. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986,

vol. 19, str. 3619-3630. [COBISS.SI-ID [39029249](#)]

**101.** ROBNIK, Marko. A simple separable Hamiltonian having bound states in the continuum. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1986, vol. 19, str. 3845-3848. [COBISS.SI-ID [39029505](#)]

**102.** ROBNIK, Marko, SCHRÜFER, Eberhard. Hydrogen atom in a strong magnetic field: calculation of the energy levels by quantising the normal form of the regularised Kepler Hamiltonian. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1985, vol. 18, str. L853-L859. [COBISS.SI-ID [39019777](#)]

**103.** ROBNIK, Marko, BERRY, Michael V. Classical billiards in magnetic field. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1985, vol. 18, str. 1361-1378. [COBISS.SI-ID [39020545](#)]

**104.** NEPVEU, Manuel, ROBNIK, Marko. Some evolutionary consequences of shock-induced star formation. *Astronomy & astrophysics*, ISSN 0004-6361, 1984, 138, str. 201-204. [COBISS.SI-ID [39076609](#)]

**105.** ROBNIK, Marko. The algebraic quantisation of the Birkhoff-Gustavson normal form. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1984, vol. 17, str. 109-130. [COBISS.SI-ID [38997761](#)]

**106.** ROBNIK, Marko. Quantising a generic family of billiards with analytic boundaries. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1984, vol. 17, str. 1049-1074. [COBISS.SI-ID [38998017](#)]

**107.** BERRY, Michael V., ROBNIK, Marko. Semiclassical level spacing when regular and chaotic orbits coexist. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1984, vol. 17, str. 2413-2421. [COBISS.SI-ID [39018497](#)]

**108.** ROBNIK, Marko, KUNDT, Wolfgang. Hydrogen at high pressures and temperatures. *Astronomy & astrophysics*, ISSN 0004-6361, 1983, 120, str. 227-233. [COBISS.SI-ID [39075841](#)]

**109.** ROBNIK, Marko. Classical dynamics of a family of billiards with analytic boundaries. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1983, vol. 16, str. 3971-3986. [COBISS.SI-ID [38997505](#)]

**110.** WANG, Yi-Ming, ROBNIK, Marko. Changing orientation of dipole and spin axes in binary X-ray pulsars. *Astronomy & astrophysics*, ISSN 0004-6361, 1982, 107, str. 222-228. [COBISS.SI-ID [39074561](#)]

**111.** ROBNIK, Marko. Hydrogen atom in a strong magnetic field: on the existence of the third integral of motion. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1981, vol. 14, str. 3195-3216. [COBISS.SI-ID [38997249](#)]

**112.** KUNDT, Wolfgang, ROBNIK, Marko. Dipole confined by a disc. *Astronomy & astrophysics*, ISSN 0004-6361, 1980, 91, str. 305-310. [COBISS.SI-ID [39073793](#)]

**113.** ROBNIK, Marko. Wave propagation in a random stratified medium. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1980, vol. 13, str. L11-L13. [COBISS.SI-ID [38994433](#)]

**114.** ROBNIK, Marko. An extremum property of the n-dimensional sphere. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1980, vol. 13, str. L349-L351. [COBISS.SI-ID [38996481](#)]

**115.** KUŠČER, Ivan, ROBNIK, Marko. Semi-microscopic description of evaporation and condensation. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1980, vol. 13, str. 621-627. [COBISS.SI-ID [38994945](#)]

**116.** ROBNIK, Marko. On adiabatic invariants and continuous large-scale deformations of QM energy spectra. *Physics letters. Section A*, ISSN 0375-9601. [Print ed.], 1980, vol. 80A, no. 2,3, str. 117-120. [COBISS.SI-ID [39088129](#)]

**117.** ROBNIK, Marko, KUŠČER, Ivan, LANG, Heinz. Influence of evaporation and condensation upon sound reflection. *International journal of heat and mass transfer*, ISSN 0017-9310. [Print ed.], 1979, vol. 22, str. 461-467. [COBISS.SI-ID [39087873](#)]

**118.** ROBNIK, Marko. Matrix treatment of wave propagation in stratified media. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1979, vol. 12, no. 1, str. 151-158. [COBISS.SI-ID [38990849](#)]

**119.** ROBNIK, Marko. Reflection from an asymmetric inhomogeneous medium. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1979, vol. 12, no. 5, str. L93-L95. [COBISS.SI-ID [38992385](#)]

**120.** ROBNIK, Marko. A matrix approach to the study of wave propagation. *Journal of physics. A, Mathematical and general*, ISSN 0305-4470, 1979, vol. 12, no. 8, str. 1175-1180. [COBISS.SI-ID [38993665](#)]

## 1.02 Review article

**121.** ROBNIK, Marko. Recent developments in the energy level statistics in generic systems between integrability and chaos. *Chaos, solitons and fractals*. [Print ed.], 1995, vol. 5, no. 7, str. 1195-1218. [COBISS.SI-ID [39089665](#)]

**122.** HASEGAWA, Hiroshi, ROBNIK, Marko, WUNNER, Günter. Classical and quantal chaos in the diamagnetic Kepler problem. *Progress of*

*theoretical physics. Supplement*, ISSN 0375-9687, 1989, no. 98, str. 198-286. [COBISS.SI-ID [39079681](#)]

## 1.04 Professional article

**123.** ROBNIK, Marko. Jakov G. Sinaj prejemnik Abelove nagrade 2014. *Delo*, ISSN 0350-7521, 19. jun. 2014, leto 56, št. 141, str. 15, fotogr. [COBISS.SI-ID [79388161](#)]

**124.** REPOVŠ, Dušan, ZOREC, Robert, ROBNIK, Marko, KORNHAUSER FRAZER, Aleksandra, GUBENŠEK, Franc, TUKARIČ, Marko, ČUK, David, ŠUBELJ, Matjaž, KAUČIČ, Venčeslav, ŠUMI, Nace. Nagrade RS za znanstvenoraziskovalno delo. 1.in 2. del. *Raziskovalec*, ISSN 0351-0727, januar 1998, let. 27, št. 5, str. 48-49, junij 1998, let. 28, št. 1, str. 68-71. [COBISS.SI-ID [317772](#)]

**125.** ROBNIK, Marko. Center za uporabno matematiko in teoretično fiziko. *Univerzitetna revija*, ISSN 1318-4539, dec. 1994, [Št.] 2, str. 50-51, ilustr. [COBISS.SI-ID [99095552](#)]

## 1.05 Popular article

**126.** ROBNIK, Marko. Zakaj potrebujemo Uporabno fiziko? : nov medfakultetni, dodiplomski študijski program na Univerzi v Mariboru. *Večer*, ISSN 0350-4972. [Tiskana izd.], 14. jan. 2003, leto 59, št. 10, str. 20. [COBISS.SI-ID [49088257](#)]

**127.** ROBNIK, Marko. Od antike do sedanjosti : kaos in revolucije v znanosti 20. stoletja. *Večer*, ISSN 0350-4972. [Tiskana izd.], 4. feb. 2003, let. 59, št. 28, str. 20. [COBISS.SI-ID [51278337](#)]

**128.** ROBNIK, Marko. Resnic ni mogoče dokazati in ne ovreči : revolucije v znanosti 20. stoletja. *Večer*, ISSN 0350-4972. [Tiskana izd.], 11. feb. 2003, let. 59, št. 33, str. [COBISS.SI-ID [51278081](#)]

**129.** ROBNIK, Marko. Kaos, sinergetika in kompleksni sistemi : kako je mogoče po nekaj mesecih gledati na uspeh 5. mednarodne poletne šole in konference o uporabni matematiki in fiziki. *Večer*, ISSN 0350-4972. [Tiskana izd.], 8. apr. 2003, let. 59, št. 81, str. 20, portret. [COBISS.SI-ID [50065153](#)]

**130.** ROBNIK, Marko. Tudi pri nas lahko veljajo le mednarodni standardi : kakšne univerze potrebujemo?. *Delo*, ISSN 0350-7521, 14. jun. 2000 (Znanost=Scientia), let. 42, št. 136, str. 16. [COBISS.SI-ID [436556](#)]

## 1.06 Published scientific conference contribution (invited lecture)

**131.** ROBNIK, Marko, BATISTIČ, Benjamin. Quantum chaos and random matrix theories. V: ROBNIK, Marko (ur.), ROMANOVSKI, Valery (ur.). *"Let's Face Chaos through Nonlinear Dynamics"*, (AIP conference proceedings, ISSN 0094-243X, 1468). Melville, N.Y.: American Institute of Physics, 2012, str. 297-331. [http://proceedings.aip.org/resource/2/apcpcs/1468/1/297\\_1?isAuthorized=no](http://proceedings.aip.org/resource/2/apcpcs/1468/1/297_1?isAuthorized=no), doi: <http://dx.doi.org/10.1063/1.4745591>. [COBISS.SI-ID [71246337](#)]

**132.** ROBNIK, Marko, ROMANOVSKI, Valery. Exact analysis of adiabatic invariants in time dependent harmonic oscillator. V: CASATI, Giulio (ur.), MATRASULOV, Davron (ur.). *Complex phenomena in nanoscale systems : proceedings of the NATO Advanced Research Workshop on Recent Advances in Nonlinear Dynamics and Complex System Physics: From Natural to Social Sciences and Security, Tashkent, Uzbekistan, 12-17 October 2008*, (NATO science for peace and security series, Series B, Physics and Biophysics). Dordrecht: Springer, 2009, str. 65-80. [http://dx.doi.org/10.1007/978-90-481-3120-4\\_6](http://dx.doi.org/10.1007/978-90-481-3120-4_6). [COBISS.SI-ID [63328513](#)]

**133.** ROBNIK, Marko, ROMANOVSKI, Valery. Energy evolution and exact analysis of the adiabatic invariants in time-dependent linear oscillator. V: 7th International Summer School/Conference at the University of Maribor, 29 June - 13 July 2008, Maribor, Slovenia. ROBNIK, Marko (ur.), ROMANOVSKI, Valery (ur.). *"Let's face chaos through nonlinear dynamics"*, (AIP conference proceedings, ISSN 0094-243X, vol. 1076). Melville: American Institute of Physics, 2008, str. 185-212. [COBISS.SI-ID [62111745](#)]

**134.** ROBNIK, Marko. Quantum chaos in generic systems. V: NAKAMURA, Katsuhiko (ur.), HARAYAMA, Takahisa (ur.), TAKATSUKA, Kazuo (ur.). *Quantum mechanics and chaos : proceedings of the International Conference on Quantum Mechanics and Chaos, Osaka City University, September 19-21, 2006*, (Progress of theoretical physics, Supplement, no. 166). Kyoto, Japan: Progress of Theoretical Physics, cop. 2007, str. 1-9. [COBISS.SI-ID [64733185](#)]

**135.** ROMANOVSKI, Valery, ROBNIK, Marko, ROMANOVSKAYA, Olga I. The isochronicity problem for some families of cubic system. V: ROBNIK, Marko (ur.), RUFFING, Andreas L. (ur.). *Communications of the Bexbach colloquium on science 2000. Vol. 2*, (Berichte aus der Mathematik). Aachen: Shaker Verlag, 2003, str. 53-80. [COBISS.SI-ID [50780161](#)]

**136.** ROBNIK, Marko. Topics in quantum chaos of generic systems. V: ROBNIK, Marko (ur.), RUFFING, Andreas L. (ur.). *Communications of the Bexbach colloquium on science 2000. Vol. 1*, (Berichte aus der Physik). Aachen: Shaker Verlag, 2002, str. 30-68. [COBISS.SI-ID [50780417](#)]

**137.** ROBNIK, Marko. Chaos, climate and intelligent life. V: International Science Symposium Herman Potočnik Noordung, Maribor, September

9-10, 1999. PAUKO, Miha (ur.). *Herman Potočnik Noordung : mednarodni znanstveni simpozij : zbornik = International Science Symposium, Maribor, Slovenija, 9. - 10. september, 1999 : proceedings*. Maribor: Univerza, 1999, str. 63-75. [COBISS.SI-ID [45270017](#)]

**138.** ROBNIK, Marko. Chaos and energy level statistics. V: MPOYNTES, Tasos (ur.), PNEYMATIKOS, Spyros (ur.). *Taxe kai chaos. Tomos 4, Polyplokotetas kai chaotikes dynamikes me grammikōn systematōn*, (Dynamika systemata). Athena: Ekdoseis G. A. Pneymatikos, 1998, str. 59-85. [COBISS.SI-ID [9376601](#)]

**139.** ROBNIK, Marko. Chaos and energy level statistics. *Journal of the Physical Society of Japan, Supplement*, ISSN 0375-9598, 1994, 63, str. 131-157. [COBISS.SI-ID [39129089](#)]

**140.** ROBNIK, Marko. Recent developments in energy level statistics in generic systems between integrability and chaos. *Progress of theoretical physics. Supplement*, ISSN 0375-9687, 1994, no. 116, str. 331-345. [COBISS.SI-ID [39080193](#)]

**141.** ROBNIK, Marko. Some aspects of quantum chaos. V: TAYLOR, K.T., NAYFEH, M.H., CLARK, C.W. *Atomic spectra and collisions in external fields*, (Physics of atoms and molecules). New York; London: Plenum Press, 1989, str. 251-274. [COBISS.SI-ID [39165185](#)]

**142.** ROBNIK, Marko. Regular and chaotic billiard dynamics in magnetic fields. V: SARKAR, Sarben. *NONLINEAR phenomena and chaos*, (Malvern physics series). Bristol; Boston: Adam Hilger Ltd., 1986, str. 303-330. [COBISS.SI-ID [39165441](#)]

**143.** ROBNIK, Marko. Antiunitary symmetries and energy level statistics. V: SELIGMAN, T. H. (ur.), NISHIOKA, H. (ur.). *Quantum chaos and statistical nuclear physics : proceedings of the 2nd international conference on quantum chaos and the 4th international colloquium on statistical nuclear physics, held at Cuernavaca, México, January 6-10, 1986*, (Lecture notes in physics, 263). Berlin: Springer-Verlag, 1986, str. 120-130. [COBISS.SI-ID [39123457](#)]

**144.** ROBNIK, Marko. Regular and irregular motion in classical and quantum systems. V: MCGLYNN, S.P., FINDLEY, G.L., HUEBNER, R.H. *Photophysics and photochemistry in the vacuum ultraviolet*, (NATO ASI Series, Series C, Mathematical and Physical Sciences, Vol. 142). Dordrecht; Boston; Lancaster: D. Reidel, 1982, str. 579-629. [COBISS.SI-ID [39165953](#)]

**145.** ROBNIK, Marko. Hydrogen atom in strong magnetic fields : regular and irregular motions. *Journal de physique. Colloque*, ISSN 0449-1947, 1982, t. 43, no. 11, str. 45-61. [COBISS.SI-ID [39088385](#)]

## 1.08 Published scientific conference contribution

**146.** BATISTIĆ, Benjamin, MANOS, Thanos, ROBNIK, Marko. The relevance of Brody level spacing distribution in dynamically localized chaotic eigenstates. V: *Proceedings of the conference & symposium*, (Nonlinear phenomena in complex systems, ISSN 1561-4085, vol. 16, no. 2). Minsk: Journal NPCS, 2013, vol. 16, no. 2, str. 105-115. [COBISS.SI-ID [75523585](#)]

**147.** MANOS, Thanos, ROBNIK, Marko. Dynamical localization in kicked rotator as a paradigm of other systems : spectral statistics and the localization measure. V: GILBERT, Thomas (ur.), KIRKILIONIS, Markus (ur.), NICOLIS, Grégoire (ur.). *Proceedings of the European Conference on Complex Systems 2012*, (Springer Proceedings in Complexity, ISSN 2213-8692). Cham: Springer, cop. 2013, str. 15-21, ilustr., doi: [10.1007/978-3-319-00395-5\\_3](https://doi.org/10.1007/978-3-319-00395-5_3). [COBISS.SI-ID [75417601](#)]

**148.** BATISTIĆ, Benjamin, ROBNIK, Marko. Dynamics of time-dependent conformally breathing billiards. V: ROBNIK, Marko (ur.), ROMANOVSKI, Valery (ur.). *"Let's Face Chaos through Nonlinear Dynamics"*, (AIP conference proceedings, ISSN 0094-243X, 1468). Melville, N.Y.: American Institute of Physics, 2012, str. 27-37. [http://proceedings.aip.org/resource/2/apcpcs/1468/1/27\\_1?isAuthorized=no](http://proceedings.aip.org/resource/2/apcpcs/1468/1/27_1?isAuthorized=no), doi: <http://dx.doi.org/10.1063/1.4745570>. [COBISS.SI-ID [71246849](#)]

## 1.10 Published scientific conference contribution abstract (invited lecture)

**149.** MANOS, Thanos, ROBNIK, Marko. Dynamical localization, spectral statistics and localization measure in the kicked rotator. V: Workshop Dynamical Systems and Applications in the framework of the project FP7-PEOPLE-2012-IRSES-316338 within the 7th European Community Framework Programme, Hotel Piramida, Maribor, Slovenia, 23 August - 24 August 2013. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Book of abstracts*. Maribor: Center za uporabno matematiko in teoretično fiziko: = CAMTP, 2013, str. 20-21. [http://www.camtp.uni-mb.si/camtp/DSA/DSA2013\\_book.pdf](http://www.camtp.uni-mb.si/camtp/DSA/DSA2013_book.pdf). [COBISS.SI-ID [77647105](#)]

**150.** ROBNIK, Marko. Adiabatic invariants and some statistical properties of the time-dependent linear and nonlinear oscillators. V: Workshop Dynamical Systems and Applications in the framework of the project FP7-PEOPLE-2012-IRSES-316338 within the 7th European Community Framework Programme, Hotel Piramida, Maribor, Slovenia, 23 August - 24 August 2013. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Book of abstracts*. Maribor: Center za uporabno matematiko in teoretično fiziko: = CAMTP, 2013, str. 24-25. [http://www.camtp.uni-mb.si/camtp/DSA/DSA2013\\_book.pdf](http://www.camtp.uni-mb.si/camtp/DSA/DSA2013_book.pdf). [COBISS.SI-ID [77647361](#)]

**151.** ROBNIK, Marko. Adiabatic invariants and some statistical properties of the time-dependent linear and nonlinear oscillators. V: ROBNIK, Marko (ur.). *CAMTP symposium on physics : announcement : 19 October 2011 University of Maribor, Slomškov trg 15, 2000 Maribor Trstenjakova dvorana*. Maribor: CAMTP, 2011, str. [14-16]. [COBISS.SI-ID [69183745](#)]

## 1.12 Published scientific conference contribution abstract

- 152.** ANDRESAS, Dimitris, BATISTIĆ, Benjamin, ROBNIK, Marko. Statistical properties of 1D parametrically kicked Hamilton systems. V: 12. simpozij fizikov Univerze v Mariboru, Maribor, 12., 13. in 14. december 2013. ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.), PRAPOTNIK BRDNIK, Anita (ur.). *Zbornik povzetkov*. Maribor: CAMTP, 2013, str. 12. <http://www.camtp.uni-mb.si/fizmb/2013/zbornik2013.pdf>. [COBISS.SI-ID [77631745](#)]
- 153.** MANOS, Thanos, ROBNIK, Marko. Probing the role of accelerator modes on the dynamical localization properties of the quantum kicked rotator and on the anomalous diffusion of its classical analogue. V: 12. simpozij fizikov Univerze v Mariboru, Maribor, 12., 13. in 14. december 2013. ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.), PRAPOTNIK BRDNIK, Anita (ur.). *Zbornik povzetkov*. Maribor: CAMTP, 2013, str. 28-29. <http://www.camtp.uni-mb.si/fizmb/2013/zbornik2013.pdf>. [COBISS.SI-ID [77636097](#)]
- 154.** ROBNIK, Marko. Kvantna lokalizacija kaotičnih stanj in statistika energijskih spektrov. V: 12. simpozij fizikov Univerze v Mariboru, Maribor, 12., 13. in 14. december 2013. ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.), PRAPOTNIK BRDNIK, Anita (ur.). *Zbornik povzetkov*. Maribor: CAMTP, 2013, str. 43-46. <http://www.camtp.uni-mb.si/fizmb/2013/zbornik2013.pdf>. [COBISS.SI-ID [77637889](#)]
- 155.** ROBNIK, Marko. Quantum chaos and random matrix theories. V: 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia*. [Maribor]: CAMTP, 2011, str. 46. [COBISS.SI-ID [69128961](#)]
- 156.** BATISTIĆ, Benjamin, ROBNIK, Marko. Velocity dynamics in conformally breathing billiards. V: 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia*. [Maribor]: CAMTP, 2011, str. 72. [COBISS.SI-ID [69129985](#)]
- 157.** OLIVEIRA, Diego Fregolente Mendes de, ROBNIK, Marko, LEONEL, Edson D. Statistical properties of time-dependent systems. V: 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia*. [Maribor]: CAMTP, 2011, str. 76. [COBISS.SI-ID [69130497](#)]
- 158.** PAPAMIKOS, Georgios, ROBNIK, Marko. Numerical study of some nonautonomous nonlinear oscillators. V: 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia. ROMANOVSKI, Valery (ur.), ROBNIK, Marko (ur.). *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia*. [Maribor]: CAMTP, 2011, str. 89. [COBISS.SI-ID [69131009](#)]
- 159.** ROBNIK, Marko. Introduction to quantum chaos in generic systems. V: 12th Japan-Slovenia Seminar on Nonlinear Science, Maribor, Slovenia, 7-9 October 2009. ROBNIK, Marko (ur.). *Programme*. Maribor: Univerza v Mariboru, Center for Applied Mathematics and Theoretical Physics: = CAMTP, 2009, str. [1-2]. [COBISS.SI-ID [64701697](#)]
- 160.** ROBNIK, Marko. New results in quantum chaos of generic systems. V: 9th Japan-Slovenia Seminar on Nonlinear Science, Osaka City University, Osaka, November 12-14, 2007. *Program & Abstracts*. [Osaka: Osaka City University, 2007, str. 51. [COBISS.SI-ID [64710913](#)]
- 161.** ROBNIK, Marko. Some generic properties of level spacing distributions of 2D real random matrices. V: 8th Japan-Slovenia Seminar on Nonlinear Science, Maribor, Slovenia, 2-6 July 2007. ROBNIK, Marko (ur.). *Programme*. Maribor: Univerza v Mariboru, Center for Applied Mathematics and Theoretical Physics: = CAMTP, 2007, str. 51-52. [COBISS.SI-ID [64711169](#)]
- 162.** ROBNIK, Marko. Quantum chaos in generic systems. V: NAKAMURA, Katsuhiko (ur.), HARAYAMA, Takahisa (ur.), TAKATSUKA, Kazuo (ur.). *Quantum mechanics and chaos : proceedings of the International Conference on Quantum Mechanics and Chaos, Osaka City University, September 19-21, 2006*, (Progress of theoretical physics, Supplement, no. 166). Kyoto, Japan: Progress of Theoretical Physics, cop. 2007, str. 29. [COBISS.SI-ID [64733441](#)]
- 163.** ROBNIK, Marko. Quantum chaos in mixed type Hamiltonian systems. V: 4th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2005, Maribor, Slovenia. *Let's face chaos through nonlinear dynamics*. Maribor: CAMTP, 2005, str. 65. [COBISS.SI-ID [56347393](#)]
- 164.** ROBNIK, Marko. Eksaktna analiza adiabatnih invariantov za časovno odvisni harmonski oscilator = Exact analysis of adiabatic invariants in time-dependent harmonic oscillators. V: 4. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 15. in 16. december 2005. ROBNIK, Marko (ur.), KOROŠAK, Dean (ur.). *Zbornik povzetkov*. Maribor: CAMTP, 2005, [2] f. [COBISS.SI-ID [56352513](#)]
- 165.** ROBNIK, Marko. Randomness of classical chaotic motion. V: European Advanced Studies Conference 4, Monastery of Novacella, Southern Tyrol, Italy 29 May 2003 - 1 June 2003. *"Chaos and complex systems"*. [S. l.: s. n.], 2003, f. 24. [COBISS.SI-ID [51281665](#)]
- 166.** ROBNIK, Marko. Quantum chaos in mixed type Hamiltonian systems. V: 2nd Slovenia-Japan Seminar, 28 June - 5 July 2003. *Programme*. Maribor: CAMTP - Center for Applied Mathematics and Theoretical Physics, University of Maribor, 2003, f. 29-30. [COBISS.SI-ID [51279361](#)]
- 167.** ROBNIK, Marko. Randomness of classical chaotic motion. V: 2nd Slovenia-Japan Seminar, 28 June - 5 July 2003. *Programme*. Maribor: CAMTP - Center for Applied Mathematics and Theoretical Physics, University of Maribor, 2003, f. 30. [COBISS.SI-ID [51279617](#)]
- 168.** ROBNIK, Marko. Two-dimensional hydrogen atom in strong magnetic field. V: *Difference equations and special functions*. [S.l.: s.n., 2002], f.

30. [COBISS.SI-ID [51286273](#)]

**169.** ROBNIK, Marko. Introduction to quantum chaos of generic Hamiltonian system. V: 5th International Summer School/Conference at the University of Maribor, 30 June - 14 July 2002, Maribor, Slovenia. *Let's face chaos through nonlinear dynamics*. Maribor: CAMTP, 2002, str. 55. [COBISS.SI-ID [50778881](#)]

**170.** VRANIČAR, Marko, BARTH, Michael, VEBLE, Gregor, ROBNIK, Marko, STÖCKMANN, Hans-Jürgen. "Persistent currents" and eigenfunctions in thin microwave resonators with broken time reversal symmetry. V: 5th International Summer School/Conference at the University of Maribor, 30 June - 14 July 2002, Maribor, Slovenia. *Let's face chaos through nonlinear dynamics*. Maribor: CAMTP, 2002, str. 97. [COBISS.SI-ID [50779905](#)]

**171.** VEBLE, Gregor, ROBNIK, Marko, ROMANOVSKI, Valery. Semiclassical analysis of Wigner functions. V: 3rd European Advanced Studies Conference, EASConferences Trakošćan 2002, 9. - 11. svibnja 2002. *Nonlinearity, noncommutativity and applications : (book of abstracts)*. [S. l.: s. n], 2002, str. 5-6. [COBISS.SI-ID [51287297](#)]

**172.** VRANIČAR, Marko, BARTH, Michael, VEBLE, Gregor, ROBNIK, Marko, STÖCKMANN, Hans-Jürgen. Persistent currents' and eigenfunctions in thin microwave resonators with broken time reversal symmetry. V: 3rd European Advanced Studies Conference, EASConferences Trakošćan 2002, 9. - 11. svibnja 2002. *Nonlinearity, noncommutativity and applications : (book of abstracts)*. [S. l.: s. n], 2002, str. 10-12. [COBISS.SI-ID [51287553](#)]

**173.** ROBNIK, Marko, ROMANOVSKI, Valery. 2-dim hydrogen atom in strong magnetic field. V: 3rd European Advanced Studies Conference, EASConferences Trakošćan 2002, 9. - 11. svibnja 2002. *Nonlinearity, noncommutativity and applications : (book of abstracts)*. [S. l.: s. n], 2002, str. 13. [COBISS.SI-ID [51287809](#)]

**174.** ROBNIK, Marko. Eigenfunction and energy level statistics in mixed phase space. V: ROBNIK, Marko, RUFFING, Andreas. *"New trends in nonlinearity and noncommutativity" : European conference Otočec 2001, the castle hotel of Otočec 12-15 October 2001 : a European grant conference*. [s. l.: s. n.], 2001, str. 18. [COBISS.SI-ID [51282689](#)]

**175.** ROBNIK, Marko. Bound states in the continuum : a simple model system. V: ROBNIK, Marko, RUFFING, Andreas. *"New trends in nonlinearity and noncommutativity" : European conference Otočec 2001, the castle hotel of Otočec 12-15 October 2001 : a European grant conference*. [s. l.: s. n.], 2001, str. 20. [COBISS.SI-ID [51283201](#)]

**176.** ROBNIK, Marko. Aspects of quantum chaos. V: *International conference "Bexbach colloquium on science", BSC 2000, 28-29 October 2000*. [S.l.: s.n., 2000], f. 21. [COBISS.SI-ID [51285249](#)]

**177.** ROBNIK, Marko. Topics un quantum chaos of generic systems I & II. V: 4th International Summer School/Conference at the University of Maribor, 27 June - 11 July 1999, Maribor, Slovenia. *Let's face chaos through nonlinear dynamics*. Maribor: CAMTP, 1999, str. 80. [COBISS.SI-ID [51279105](#)]

**178.** ROBNIK, Marko. Aspects of quantum chaos in generic system I, II. V: 3rd International Summer School, Conference at the University of Maribor, 24 June - 5 July 1996. *Let's face chaos through nonlinear dynamics : 3rd International Summer School/Conference at the University of Maribor, 24 June - 5 July 1996*. Maribor: CAMTP, 1996, str. 32. [COBISS.SI-ID [51278849](#)]

## 1.18 Encyclopaedia, lexicon, dictionary, etc. entry

**179.** ROBNIK, Marko. Adiabatic invariants. V: SCOTT, Alwyn (ur.). *Encyclopedia of nonlinear science*. New York; London: Routledge, cop. 2005, str. 3-5. [COBISS.SI-ID [54549249](#)]

**180.** ROBNIK, Marko. Determinism. V: SCOTT, Alwyn (ur.). *Encyclopedia of nonlinear science*. New York; London: Routledge, cop. 2005, str. 196-198. [COBISS.SI-ID [54549505](#)]

## 1.20 Preface, afterword

**181.** ROBNIK, Marko, ROMANOVSKI, Valery. Foreword to the Proceedings of "Let's Face Chaos through Nonlinear Dynamics" 8th International Summer School/Conference. V: ROBNIK, Marko (ur.), ROMANOVSKI, Valery (ur.). *"Let's Face Chaos through Nonlinear Dynamics"*, (AIP conference proceedings, ISSN 0094-243X, 1468). Melville, N.Y.: American Institute of Physics, 2012, str. 1-3. [http://proceedings.aip.org/resource/2/apcpcs/1468/1/1\\_1?isAuthorized=no](http://proceedings.aip.org/resource/2/apcpcs/1468/1/1_1?isAuthorized=no), doi: <http://dx.doi.org/10.1063/1.4751874>. [COBISS.SI-ID [71245825](#)]

**182.** ROBNIK, Marko, STEFANOVSKA, Aneta. Foreword. *Nonlinear phenomena in complex systems*, ISSN 1561-4085, 2003, vol. 5, no. 4, str. 1-2. [COBISS.SI-ID [3372628](#)]

**183.** ROBNIK, Marko, AIZAWA, Yoji, HASEGAWA, Hiroshi, KURAMOTO, Yoshiki. Preface. V: ROBNIK, Marko (ur.), et al. *Let's face chaos through nonlinear dynamics : proceedings of the 4th International Summer School/Conference held at the University of Maribor, 27 June-11 July, 1999*, (Progress of theoretical physics suppl. , ISSN 0375-9687, No. 139). Kyoto: Kyoto University, 2000, str. I-II. [COBISS.SI-ID [51288577](#)]

## 1.22 Interview

- 184.** ROBNIK, Marko (interviewee), STEFANOVSKA, Aneta (interviewee). Britannica, vsajena naravnost v glavo : prva enciklopedija nelinearne znanosti, pogovor z avtorjema iz Slovenije. *Delo*, ISSN 0350-7521, 24. feb. 2005, leto 47, št. 45, str. 17. [COBISS.SI-ID [54550273](#)]
- 185.** ROBNIK, Marko (interviewee), ŽNIDARIČ, Marko (interviewee). Japonsko-slovenska znanstvena bljižnica : Center za uporabno matematiko in teoretično fiziko gostitelj slovensko-japonskega znanstvenega srečanja. *Delo*, ISSN 0350-7521, 7. jul. 2003, let. 45, št. 154, str. 7. [COBISS.SI-ID [51278593](#)]
- 186.** DREVENŠEK, Simona (interviewer), MIKOLA, Maša (interviewer), ROBNIK, Marko (interviewee). Soočimo se s kaosom : fiziko je mogoče implicirati na vsa področja človekovega življenja : na konferenci fizikov in drugih teoretikov se je zbralo 130 udeležencev. *Večer*, ISSN 0350-4972. [Tiskana izd.], 19. jul. 2002, letn. 58, št. 164, str. 11. [COBISS.SI-ID [50780673](#)]
- 187.** ROBNIK, Marko (interviewee). Tudi zelo majhno raziskovalno središče lahko s kakovostjo dobi svetovni pomen : pogovarjamo se z dobitniki nagrad za znanstvenoraziskovalno delo : prof. dr. Marko Robnik. *Delo*, ISSN 0350-7521, 3.XII.1997, let. 39, št. 279, str. 10. [COBISS.SI-ID [295756](#)]
- 188.** ROBNIK, Marko (interviewee). Dognanje ene proteinske molekule vzame milijon ameriških dolarjev : "nelinearna dinamika posega tudi na področje astrofizike in astronomije, kemije, biologije, ekonomije, tehnike, tehnologije, sociologije..." : [pogovor] z dr. Markom Robnikom, dobitnikom državne nagrade za dosežke v fiziki. *Večer*, ISSN 0350-4972. [Tiskana izd.], 15.XI.1997, let. 53, št. 264, str. 17, portret. [COBISS.SI-ID [42735105](#)]
- 189.** ROBNIK, Marko (interviewee). Dokazujejo, da v znanosti ne odločata velikost in lokacija, temveč zgolj mednarodna uspešnost : pogovor s prof. Markom Robnikom, direktorjem Centra za uporabno matematiko in teoretično fiziko Univerze v Mariboru. *Delo*, ISSN 0350-7521, 1.II.1995, 37, st. 26, str. 9, portret. [COBISS.SI-ID [46989056](#)]
- 190.** ROBNIK, Marko (interviewee). Vrhunska znanost lahko uspeva povsod, kjer jo podpirajo : dr. Marko Robnik - znanstvenik, ki ni ostal v tujini. *Delo*, ISSN 0350-7521, 6.XI.1991, let. 33, št. 260 [i.e. 259], str. 13, portret. [COBISS.SI-ID [42736641](#)]

## MONOGRAPHS AND OTHER COMPLETED WORKS

### 2.08 Doctoral dissertation

- 191.** ROBNIK, Marko. *Das Energiespektrum vom Wasserstoffatom im starken Magnetfeld : Inaugural-Dissertation zur Erlangung des Doktorgrades der Hohen Mathem.-Naturw. Fakultät der Rheinischen Friedrich-Wilhelms-Universität zu Bonn*. Bonn: [M. Robnik], 1981. 92 str., ilustr. [COBISS.SI-ID [43734273](#)]

### 2.11 Undergraduate thesis

- 192.** ROBNIK, Marko. *Možnost akustičnega merjenja koeficientov izparevanja : diplomsko delo*. Ljubljana: [M. Robnik], 1978. 39 f. [COBISS.SI-ID [785508](#)]

### 2.12 Final research report

- 193.** ROBNIK, Marko. *Nelinearna dinamika in uporabna matematika : zaključno poročilo o rezultatih opravljenega znanstveno-raziskovalnega dela na področju temeljnega raziskovanja za obdobje 1. jan. 1993 - 31. dec. 1995*. V Mariboru: Center za uporabno matematiko in teoretično fiziko, 1996. 20, [26] f. [COBISS.SI-ID [104846592](#)]
- 194.** ROBNIK, Marko. *Uporabna matematika - nelinearna dinamika*, (Uporabna matematika - nelinearna dinamika), (Teorijska fizika in matematično fizikalno modeliranje in astrogeofizikalne vede). Maribor: RSS, 1993. 1 zv. (loč. pag.), ilustr. [COBISS.SI-ID [39331072](#)]
- 195.** ROBNIK, Marko. *Uporabna matematika - nelinearna dinamika*, (Uporabna matematika - nelinearna dinamika), (Teorijska fizika in matematično fizikalno modeliranje in astrogeofizikalne vede). Maribor: RSS, 1991. 1 zv. (loč. pag.). [COBISS.SI-ID [43076864](#)]

## PERFORMED WORKS (EVENTS)

### 3.13 Organizing scientific and professional meetings

**196.** ROBNIK, Marko, STEFANOVSKA, Aneta. *"Let's face chaos through nonlinear dynamics" : 5th International Summer School / Conference at the University of Maribor, 30 June - 14 July 2002.* Maribor, 30.06.-14.07.2002. [COBISS.SI-ID [3019860](#)]

### 3.25 Other performed works

**197.** ROBNIK, Marko. *Bound-state eigenfunctions of classically chaotic Hamilton systems : Gaussian randomness and scars.* Maribor, 1992. [COBISS.SI-ID [39164161](#)]

**198.** ROBNIK, Marko. *Integrability of the generalized Hénon-Heiles system.* Maribor, 1991. [COBISS.SI-ID [39164417](#)]

**199.** ROBNIK, Marko. *Each nodal cell of the first excited state eigenfunction of the Schrödinger operator is simply connected.* Maribor, 1990. [COBISS.SI-ID [39164673](#)]

**200.** ROBNIK, Marko. *Bound-state eigenfunctions of classically ergodic Hamilton systems : a theory of scars.* Santa Barbara, 1989. [COBISS.SI-ID [39131137](#)]

**201.** ROBNIK, Marko. *Nongeneric behaviour in quantum chaos and the semiclassical level spacings.* Santa Barbara, 1989. [COBISS.SI-ID [39160833](#)]

**202.** ROBNIK, Marko. *Some results concerning the interpretation of quantum mechanics.* Santa Barbara, 1989. [COBISS.SI-ID [39130881](#)]

**203.** ROBNIK, Marko. *On the stable selfreproduction of automata.* Heidelberg, 1987. [COBISS.SI-ID [39130113](#)]

## SECONDARY AUTHORSHIP

### Editor

**204.** *Discrete dynamics in nature and society.* Robnik, Marko (editor 2007-). Amsterdam: Gordon and Breach Science Publishers. ISSN 1026-0226. [COBISS.SI-ID [47308801](#)]

**205.** *Discrete dynamics in nature and society.* Robnik, Marko (editor 2007-). Amsterdam: Gordon and Breach, 2000-. ISSN 1607-887X. <http://www.gbhap.com/journals/292/292-top.htm>. [COBISS.SI-ID [69179649](#)]

**206.** *Nonlinear phenomena in complex systems.* Robnik, Marko (guest editor 2002, 2006, 2007). Minsk: Education and upbringing publishing company, 1998-. ISSN 1561-4085. [COBISS.SI-ID [43307009](#)]

**207.** *Nonlinear phenomena in complex systems.* Robnik, Marko (member of editorial council 1997-). Minsk: Education and upbringing publishing company, 1998-. ISSN 1561-4085. [COBISS.SI-ID [43307009](#)]

**208.** *Open systems & information dynamics.* Robnik, Marko (member of editorial board 1997-, guest editor 1995, 1997). [Print ed.]. Toruń: Nicholas Copernicus University Press, 1992-. ISSN 1230-1612. [COBISS.SI-ID [18009093](#)]

**209.** 9th International Summer School/Conference at the University of Maribor, 22 June - 6 July 2014, Maribor, Slovenia, ROBNIK, Marko (editor). *Let's face chaos through nonlinear dynamics : 9th International Summer School/Conference at the University of Maribor, 22 June - 6 July 2014, Maribor, Slovenia.* Maribor: CAMTP, Center for Applied Mathematics and Theoretical Physics, 2014. 95 str., ilustr. ISBN 978-961-281-444-1. [COBISS.SI-ID [78561025](#)]

**210.** Workshop Dynamical Systems and Applications in the framework of the project FP7-PEOPLE-2012-IRSES-316338 within the 7th European Community Framework Programme, Hotel Piramida, Maribor, Slovenia, 23 August - 24 August 2013, ROMANOVSKI, Valery (editor), ROBNIK, Marko (editor). *Book of abstracts.* Maribor: Center za uporabno matematiko in teoretično fiziko: = CAMTP, 2013. 40 str. ISBN 978-961-281-121-1. [http://www.camtp.uni-mb.si/camtp/DSA/DSA2013\\_book.pdf](http://www.camtp.uni-mb.si/camtp/DSA/DSA2013_book.pdf). [COBISS.SI-ID [75254273](#)]

**211.** 12. simpozij fizikov Univerze v Mariboru, Maribor, 12., 13. in 14. december 2013, ROBNIK, Marko (editor), KOROŠAK, Dean (editor), PRAPOTNIK BRDNIK, Anita (editor). *Zbornik povzetkov.* Maribor: CAMTP, 2013. 75 str. ISBN 978-961-281-254-6. [COBISS.SI-ID [76393217](#)]

**212.** 1st Out of the Box Conference, 15-17 May 2012, University of Maribor, ROBNIK, Marko (editor), SAMEC, Marko (editor). *Innovative ways to improve the culture of living : [programme book].* Maribor: RAZ:UM, 2012. 82 str. ISBN 978-961-269-684-9. [COBISS.SI-ID [69766401](#)]

**213.** ROBNIK, Marko (editor, reviewer), ROMANOVSKI, Valery (editor). *"Let's Face Chaos through Nonlinear Dynamics"*, (AIP conference proceedings, 1468). Melville, N.Y.: American Institute of Physics, 2012. ISBN 978-0-7354-1075-6. ISBN 0-7354-1075-5. <http://proceedings.aip.org/resource/2/apcpcs/1468/1>. [COBISS.SI-ID [71244801](#)]

**214.** 8th International Summer School/Conference "Let's Face Chaos through Nonlinear Dynamics", University of Maribor, 26 June - 10 July 2011, Slovenia, ROBNIK, Marko (editor, reviewer), ROMANOVSKI, Valery (editor). *Let's face chaos through nonlinear dynamics : 8th international*

summer school/conference, Maribor, Slovenia 26 June - 10 July 2011, (AIP conference proceedings, 1468). New York: American Institute of Physics, 2012. VII, 402 str., ilustr. ISBN 978-0-7354-1075-6. <http://proceedings.aip.org/resource/2/apcpcs/1468/1>. [COBISS.SI-ID [16402521](#)]

**215.** 11. simpozij fizikov Univerze v Mariboru, 6., 7. in 8. december 2012, Maribor, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2012. 1 zv., fotogr. <http://www.camtp.uni-mb.si/fizmb/2012/abstrakti.pdf>. [COBISS.SI-ID [9491017](#)]

**216.** 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia, ROBNIK, Marko (editor in chief), ROMANOVSKI, Valery (editor). *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June - 10 July 2011, Maribor, Slovenia*. [Maribor]: CAMTP, 2011. 91 str., ilustr. <http://www.camtp.uni-mb.si/chaos/2011/programme/programme2011.pdf>. [COBISS.SI-ID [15934297](#)]

**217.** ROBNIK, Marko (editor in chief). *CAMTP symposium on physics : announcement : 19 October 2011 University of Maribor, Slomškov trg 15, 2000 Maribor Trstenjakova dvorana*. Maribor: CAMTP, 2011. [18] str. [COBISS.SI-ID [69181441](#)]

**218.** 10. simpozij fizikov Univerze v Mariboru, 8., 9. in 10. december 2011, Maribor, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2011. 1 zv. [COBISS.SI-ID [25408551](#)]

**219.** 9. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 9., 10. in 11. december 2010, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov : posvečen profesorju Siegfriedu Grossmannu ob njegovem 80. življenjskem jubileju*. Maribor: CAMTP, 2010. 1 zv. (loč. pag.). [COBISS.SI-ID [24257831](#)]

**220.** 12th Japan-Slovenia Seminar on Nonlinear Science, Maribor, Slovenia, 7-9 October 2009, ROBNIK, Marko (editor). *Programme*. Maribor: Univerza v Mariboru, Center for Applied Mathematics and Theoretical Physics: = CAMTP, 2009. 1 zv. (loč. pag.). [COBISS.SI-ID [13586710](#)]

**221.** 8. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 17., 18. in 19. december 2009, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2009. 1 zv. (loč. pag.). [COBISS.SI-ID [17322504](#)]

**222.** 7th International Summer School/Conference at the University of Maribor, 29 June - 13 July 2008, Maribor, Slovenia, ROBNIK, Marko (editor), ROMANOVSKI, Valery (editor). *"Let's face chaos through nonlinear dynamics"*, (AIP conference proceedings, vol. 1076). Melville: American Institute of Physics, 2008. XV, 312 str., ilustr. ISBN 978-0-7354-0607-0. <http://proceedings.aip.org/dbt/dbt.jsp?KEY=APCPCS&Volume=1076&Issue=1>. [COBISS.SI-ID [14991193](#)]

**223.** 7. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 11., 12. in 13. december 2008, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2008. 1 zv. (loč. pag.). [COBISS.SI-ID [15022425](#)]

**224.** 8th Japan-Slovenia Seminar on Nonlinear Science, Maribor, Slovenia, 2-6 July 2007, ROBNIK, Marko (editor). *Programme*. Maribor: Univerza v Mariboru, Center for Applied Mathematics and Theoretical Physics: = CAMTP, 2007. 69 f., ilustr. [COBISS.SI-ID [6061140](#)]

**225.** 6. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 13., 14. in 15. december 2007, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2007. 1 zv. (loč. pag.). [COBISS.SI-ID [811259](#)]

**226.** 5. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 14. 15. in 16. december 2006, ROBNIK, Marko (editor, author of introduction, etc.), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2006. 1 zv. (loč. pag.). [COBISS.SI-ID [10995734](#)]

**227.** 4. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 15. in 16. december 2005, ROBNIK, Marko (editor, author of introduction, etc.), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2005. 1 zv. (loč. pag.). [COBISS.SI-ID [14398728](#)]

**228.** 3. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 16. in 17. december 2004, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2004. 1 zv. (loč. pag.). [COBISS.SI-ID [9273622](#)]

**229.** ROBNIK, Marko (editor), RUFFING, Andreas L. (editor). *Communications of the Bexbach colloquium on science 2000. Vol. 2*, (Berichte aus der Mathematik). Aachen: Shaker Verlag, 2003. 80 str., ilustr. ISBN 3-8322-1395-3. [COBISS.SI-ID [50684161](#)]

**230.** ROBNIK, Marko (editor), RUFFING, Andreas L. (editor). *Communications of the Bexbach colloquium on science 2000. Vol. 3*, (Berichte aus der physik). Aachen: Shaker Verlag, 2003. [100] str., ilustr. ISBN 3-8322-1517-4. [COBISS.SI-ID [50684417](#)]

**231.** ROBNIK, Marko (editor), AIZAWA, Yoji (editor), KURAMOTO, Yoshiki (editor). *Let's face chaos through nonlinear dynamics : proceedings of the 5th International Summer School/Conference held at the University of Maribor, June 30-July 14, 2002*, (Progress of theoretical physics, Supplement, No. 150). Kyoto: Kyoto University, 2003. XII, 476, str., ilustr. [COBISS.SI-ID [54282241](#)]

**232.** 2. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 18. in 19. december 2003, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2003. 1 zv. (loč. pag.). [COBISS.SI-ID [8491286](#)]

**233.** ROBNIK, Marko (editor), RUFFING, Andreas L. (editor). *Communications of the Bexbach colloquium on science 2000. Vol. 1*, (Berichte aus der Physik). Aachen: Shaker Verlag, 2002. 90 str., ilustr. ISBN 3-8322-0412-1. [COBISS.SI-ID [50683905](#)]

**234.** 1. simpozij fizikov Univerze v Mariboru, Maribor, 19. in 20. december 2002, ROBNIK, Marko (editor), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2002. [COBISS.SI-ID [17206311](#)]

**235.** ROBNIK, Marko (editor), AIZAWA, Yoji (editor), HASEGAWA, Hiroshi (editor), KURAMOTO, Yoshiki (editor). *Let's face chaos through nonlinear dynamics : proceedings of the 4th International Summer School/Conference held at the University of Maribor, 27 June-11 July, 1999*,

(Progress of theoretical physics suppl. , No. 139). Kyoto: Kyoto University, 2000. 557 str., ilustr. [COBISS.SI-ID [15327527](#)]

## Supervisor for Doctoral Dissertations

**236.** OLIVEIRA, Diego Fregolente Mendes de. *Statistical properties of time-dependent systems : doctoral dissertation*. [Maribor: D. F. M. de Oliveira], 2012. VIII, 305 str., graf. prikazi. <http://dkum.uni-mb.si/Dokument.php?id=48597>. [COBISS.SI-ID [19304200](#)]

**237.** PAPANIKOS, Georgios. *Analysis of the adiabatic invariants and the statistical properties of time-dependent low-dimensional Hamilton systems : doctoral thesis = Analiza adiabatskih invariantov in statistične lastnosti časovno odvisnih nizkodimenzionalnih Hamiltonskih sistemov : doktorska disertacija*. Ljubljana: [G. Papanikos], 2010. 136 str., graf. prikazi. [COBISS.SI-ID [2379108](#)]

**238.** VIDMAR, Gregor. *The influence of tunneling on eigenvalue statistics and dynamics in the mixed-type systems : doctoral thesis = Vpliv tuneliranja na statistiko in dinamiko energijskih stanj sistema mešanega tipa : doktorska disertacija*. Ljubljana: [G. Vidmar], 2008. 135 str., graf. prikazi. [COBISS.SI-ID [2130276](#)]

**239.** VEBLE, Gregor. *Študije v kvantnem kaosu : disertacija*. Ljubljana: [G. Veble], 2001. 154 str., graf. prikazi. [COBISS.SI-ID [1385316](#)]

**240.** PROSEN, Tomaž. *Kvantna Poincaréjeva preslikava : disertacija*. Ljubljana: [T. Prosen], 1995. VIII, 113 str., ilustr. [COBISS.SI-ID [52268544](#)]

## Supervisor for Master's Theses

**241.** PROSEN, Tomaž. *Statistične lastnosti matričnih elementov v Hamiltonskih sistemih med integrabilnostjo in kaosom : magistrsko delo*. Ljubljana: [T. Prosen], 1993. 93 f., graf. prikazi. [COBISS.SI-ID [42739969](#)]

## Supervisor for Undergraduate Theses

**242.** VRANIČAR, Marko. *Semiklasične aproksimacije in efekti tuneliranja : diplomsko delo*. Ljubljana: [M. Vraničar], 1998. 64 f., graf. prikazi. [COBISS.SI-ID [642660](#)]

**243.** VEBLE, Gregor. *Študij spektralne statistike klasično integrabilnih sistemov : diplomsko delo*. Ljubljana: [G. Veble], 1997. 96 str., graf. prikazi. [COBISS.SI-ID [466276](#)]

**244.** DOBNIKAR, Jure. *Statistika spektrov v prehodnem območju med integrabilnostjo in kaosom ob zlomljeni antiunitarni simetriji : diplomsko delo*. Ljubljana: [J. Dobnikar], 1996. 102 str., graf. prikazi. [COBISS.SI-ID [42739457](#)]

**245.** PROSEN, Tomaž. *Transport energije in verifikacija Fourierovega zakona o prevajanju toplote v verigi trkajočih harmonskih oscilatorjev : diplomsko delo*. Ljubljana: [T. Prosen], 1991. 48 str., graf. prikazi. [COBISS.SI-ID [42736897](#)]

**246.** BURNETT, John. *An investigation of measures of chaos in a family of billiards*, (University of Bristol, Department of Physics). Bristol: [J. Burnett], [1986]. 53 str., graf. prikazi. [COBISS.SI-ID [43735297](#)]

**247.** NEAVE, Tina J.. *An investigation of the statistical properties of a certain random function*, (University of Bristol, Department of Physics). Bristol: [T.J. Neave], [1986]. 62 str., graf. prikazi. [COBISS.SI-ID [43735041](#)]

## Author of introduction

**248.** 5. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 14. 15. in 16. december 2006, ROBNIK, Marko (editor, author of introduction, etc.), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2006. 1 zv. (loč. pag.). [COBISS.SI-ID [10995734](#)]

**249.** 4. simpozij fizikov Univerze v Mariboru, Hotel Piramida, Maribor, 15. in 16. december 2005, ROBNIK, Marko (editor, author of introduction, etc.), KOROŠAK, Dean (editor). *Zbornik povzetkov*. Maribor: CAMTP, 2005. 1 zv. (loč. pag.). [COBISS.SI-ID [14398728](#)]

## Co-Supervisor for Undergraduate Theses

**250.** SCHAAF, Reinhold. *Analytische Untersuchungen an Ebenen starken Plasmawellen*, (Universität Bonn, Institut für Astrophysik und Extraterrestrische Forschung). Bonn: [R. Schaaf], 1985. 86 str., graf. prikazi. [COBISS.SI-ID [43734529](#)]

**251.** FRITZ, Klaus-Dieter. *Globale Untersuchungen an starken ebenen Plasmawellen*, (Universität Bonn, Institut für Astrophysik und

Extraterrestrische Forschung). Bonn: [K.-D. Fritz], 1984. 62 str., graf. prikazi. [COBISS.SI-ID [43734785](#)]

## Referee

**252.** *AIP conference proceedings*. Robnik, Marko (reviewer 2012). New York: American Institute of Physics, 1970-. ISSN 0094-243X. [COBISS.SI-ID [12800295](#)]

**253.** ROBNIK, Marko (editor, reviewer), ROMANOVSKI, Valery (editor). *"Let's Face Chaos through Nonlinear Dynamics"*, (AIP conference proceedings, 1468). Melville, N.Y.: American Institute of Physics, 2012. ISBN 978-0-7354-1075-6. ISBN 0-7354-1075-5. <http://proceedings.aip.org/resource/2/apcpcs/1468/1>. [COBISS.SI-ID [71244801](#)]

**254.** 8th International Summer School/Conference "Let's Face Chaos through Nonlinear Dynamics", University of Maribor, 26 June - 10 July 2011, Slovenia, ROBNIK, Marko (editor, reviewer), ROMANOVSKI, Valery (editor). *Let's face chaos through nonlinear dynamics : 8th international summer school/conference, Maribor, Slovenia 26 June - 10 July 2011*, (AIP conference proceedings, 1468). New York: American Institute of Physics, 2012. VII, 402 str., ilustr. ISBN 978-0-7354-1075-6. <http://proceedings.aip.org/resource/2/apcpcs/1468/1>. [COBISS.SI-ID [16402521](#)]

---

## UNCLASSIFIED

**255.** ROBNIK, Marko. *Let's face chaos through nonlinear dynamics : 9th International Summer School/Conference at the University of Maribor, 22 June-6 July 2014, Slovenia : dedicated to the 65th birthday of professor Theo Geisel*. Maribor: CAMTP, [2014]. 1 plakat, barve. [COBISS.SI-ID [275023616](#)]

**256.** ROBNIK, Marko. *Let's face chaos through nonlinear dynamics : 8th International Summer School/Conference at the University of Maribor, 26 June-10 July 2011, Slovenia : dedicated to the 65th birthday of professor Predrag Cvitanović*. Maribor: CAMTP, [2011]. 1 plakat, barve. [COBISS.SI-ID [275022336](#)]

**257.** ROBNIK, Marko. *Report and speech of the laudeator Prof. Dr. Marko Robnik on the occasion of awarding the title "Honorary Senator of the University of Maribor" to Prof. Dr. rer. nat. Dr. h. c. mult. Hermann Haken from the University of Stuttgart, Germany*. [Maribor: University, 200-]. 3 f. [COBISS.SI-ID [62097665](#)]

Selected format of bibliographic unit: ISO 690

Source of bibliographic records: shared data base COBISS.SI/COBIB.SI, 25. 8. 2014