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PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Kirillov O.N., Unfolding the conical zones of the dissipation-induced subcritical flutter for the rotationally symmetrical gyroscopic systems, *Physics Letters A*. 2009. Vol. 373, No. 10, P. 940–945.
2. Kirillov O.N., Perspectives and obstacles for optimization of brake pads with respect to stability criteria. *Int. J. of Vehicle Design*, 2009. Vol. 49, No. 1, P.
3. Kirillov O.N., Guenther U., Stefani F. Determining role of Krein signature for three dimensional Arnold tongues of oscillatory dynamos. *Physical Review E*, 2009. Vol. 79. No. 1 016205 (Selected for PRE Kaleidoscope)
4. Spelsberg-Korspeter G., Hochlenert D., Kirillov O.N., Hagedorn P. In- and out-of-plane vibrations of a rotating plate with frictional contact: Investigations on squeal phenomena. *Trans. ASME, J. Appl. Mech.* Vol. 76. 2009. (in press)
5. Kirillov O.N. Subcritical flutter in the acoustics of friction. *Proceedings of the Royal Society A* 2008. Vol. 464. No. 2097. P. 2321–2339
6. Spelsberg-Korspeter G., Kirillov O.N., Hagedorn P. Modeling and stability analysis of an axially moving beam with frictional contact. *Trans. ASME, J. Appl. Mech.* 2008. Vol. 75. No. 3, 031001 P. 1-10.
7. Kirillov O.N. Gyroscopic stabilization in the presence of nonconservative forces. *Doklady Mathematics*. 2007. Vol. 76. No. 2. P. 780-785.
8. Kirillov O.N. Bifurcation of the roots of the characteristic polynomial and destabilization paradox in friction induced oscillations. *Theoretical and Applied Mechanics* 2007 Volume 34, Issue 2, 87-109.
9. Kirillov O.N. On the stability of nonconservative systems with small dissipation. *Journal of Mathematical Sciences*. 2007. Vol. 145, No. 5. P. 5260-5270.
10. Kirillov O.N. Destabilization paradox due to breaking the Hamiltonian and reversible symmetry. *International Journal of Non-Linear Mechanics*. 2007. Vol. 42. No. 1. P. 71-87.
11. Guenther U., Kirillov O.N., Samsonov B.F., Stefani F. The spherically-symmetric  $\alpha^2$ -dynamo and some of its spectral peculiarities. *Acta Polytechnica*. 2007. Vol. 47 No. 2–3. P. 75-81.
12. Kirillov O.N. Gyroscopic stabilization of non-conservative systems. *Physics Letters A*. 2006. Vol. 359. No. 3. P. 204-210.
13. Guenther U., Kirillov O.N. A Krein space related perturbation theory for MHD  $\alpha^2$  dynamos and resonant unfolding of diabolical points. *Journal of Physics A: Mathematical and General*. 2006. Vol. 39. P. 10057-10076.
14. Mailybaev A.A., Kirillov O.N., Seyranian A.P. Berry phase around degeneracies. *Doklady Mathematics*. 2006. Vol. 73. No. 1. P. 129-133.
15. Kirillov O.N., Mailybaev A.A., Seyranian A.P. Singularities of energy surfaces under non-Hermitian perturbations. *Doklady Physics*. 2005. Vol. 50. No. 11. P. 577-582.
16. Mailybaev A.A., Kirillov O.N., Seyranian A.P. Geometric phase around exceptional points. *Physical Review A*. 2005. Vol. 72. No. 014104. P. 1-4.
17. Kirillov O.N., Mailybaev A.A., Seyranian A.P. Unfolding of eigenvalue surfaces near a diabolic point due to a complex perturbation. *Journal of Physics A: Mathematical and General*. 2005. Vol. 38. No. 24. P. 5531–5546.
18. Seyranian A.P., Kirillov O.N., Mailybaev A.A. Coupling of eigenvalues of complex matrices at diabolic and exceptional points. *Journal of Physics A: Mathematical and General*. 2005. Vol. 38. No. 8. P. 1723-1740.
19. Kirillov O.N., Seyranian A.P. Instability of distributed nonconservative systems caused by weak dissipation. *Doklady Mathematics*. 2005. Vol. 71. No. 3. P. 470-475.

20. Kirillov O.N., Seyranian A.P. The effect of small internal and external damping on the stability of distributed non-conservative systems. *J. Appl. Math. Mech.* 2005. Vol. 69. No. 4. P. 529-552.
21. Kirillov O.N. A theory of the destabilization paradox in non-conservative systems. *Acta Mechanica.* 2005. Vol. 174. No. 3-4. P. 145-166.
22. Kirillov O.N., Seyranian A.P. Stabilization and destabilization of a circulatory system by small velocity-dependent forces. *Journal of Sound and Vibration.* 2005. Vol. 283. No. 3-5. P. 781-800.
23. Kirillov O.N. Destabilization paradox. *Doklady Physics.* 2004. Vol. 49. No. 4. P. 239-245.
24. Kirillov O.N., Seyranian A.P. Collapse of the Keldysh chains and stability of continuous non-conservative systems. *SIAM Journal on Applied Mathematics.* 2004. Vol. 64. No. 4. P. 1383-1407.
25. Seyranian A.P., Kirillov O.N. Effect of small dissipative and gyroscopic forces on the stability of nonconservative systems. *Doklady Physics.* 2003. Vol. 48. No. 12. P. 679-684.
26. Kirillov O.N., Seyranian A.P. Solution to the Herrmann-Smith problem. *Doklady Physics.* 2002. Vol. 47. No. 10. P. 767-771.
27. Kirillov O.N., Seyranian A.P. Metamorphoses of characteristic curves in circulatory systems. *J. Appl. Math. Mech.* 2002. Vol. 66. No. 3. P. 371-385.
28. Kirillov O.N., Seyranian A.P. Collapse of Keldysh chains and the stability of non-conservative systems. *Doklady Mathematics.* 2002. Vol. 66. No. 1. P. 127-131.
29. Kirillov O.N., Seyranian A.P. A non-smooth optimization problem. *Moscow University Mechanics Bulletin.* 2002. Vol. 57. No. 3. P. 1-6.
30. Seyranian A.P., Kirillov O.N. Bifurcation diagrams and stability boundaries of circulatory systems. *Theoretical and Applied Mechanics.* 2001. Vol. 26. P. 135-168.
31. Kirillov O.N., Seyranian A.P. Overlapping of frequency curves in non-conservative systems. *Doklady Physics.* 2001. Vol. 46. No. 3. P. 184-189.
32. Kirillov O.N. Optimization of stability of the flying bar. *Young Scientists Bulletin. Appl. Maths Mechs.* 1999. Vol. 1 No.1 P. 64-78.

## CONFERENCE PROCEEDINGS

1. Kirillov O.N. Sensitivity analysis of Hamiltonian and reversible systems prone to dissipation-induced instabilities. in: 'Matrix methods: theory, algorithms, applications', E. Tyrtyshnikov and V. Olshevsky, eds. *Proceedings of the 2nd International Conference on matrix methods and operator equations, July 23-27, 2007, Moscow, Russia.* World Scientific. 2009. P. 31-68.
2. O.N. Kirillov. Dissipation-induced subcritical flutter in the acoustics of friction, *Proc. Appl. Math. Mech.* Vol. 8(1). 2008 (in press)
3. U. Gunther, O.N. Kirillov. Homotopic deformation of the Arnold's tongues for the MHD 2-dynamo, *Proc. Appl. Math. Mech.* Vol. 8(1). 2008 (in press)
4. O.N. Kirillov. Sensitivity analysis of gyroscopic and circulatory systems prone to dissipation-induced instabilities. *Proceedings of MOVIC 2008 - The International Conference on Motion and Vibration Control, 15-18 September 2008, Munich, Germany.*
5. O.N. Kirillov. Subcritical flutter in the acoustics of friction of the spinning rotationally symmetric elastic continua. *Proceedings of ISMA 2008 - International Conference on Noise and Vibration Engineering. 15-17 September 2008, Leuven, Belgium.* Editors: P. Sas, B. Bergen, P. 2977-2992.
6. O.N. Kirillov. Subcritical flutter in the problems of acoustics of friction. Paper 10157 in the CD-ROM *Proceedings of XXIInd International Congress of*

- Theoretical and Applied Mechanics. ISBN 978-0-9805142-106. August 25-29, Adelaide, Australia
7. O.N. Kirillov. How to Play a Disc Brake: A Dissipation-Induced Squeal. SAE Paper 2008-01-1160, Proceedings of the SAE World Congress and Exhibition, April 14-17 2008, Detroit, MI, USA.
  8. Kirillov O.N. Stabilization and destabilization in non-conservative gyroscopic systems Proc. Appl. Math. Mech. Vol. 7(1). 2007. P. 4050001-4050002
  9. Guenther U., Kirillov O.N. Asymptotic methods for spherically symmetric MHD  $\alpha^2$ -dynamoes. Proc. Appl. Math. Mech. Vol. 7(1). 2007. P.
  10. Kirillov O.N. Gyroscopic stabilization in presence of non-conservative forces. Proceedings of the 12th IFToMM World Congress in Mechanism and Machine Science, Besancon, June 18-21, 2007, P.
  11. Kirillov O.N., Guenther U. On Krein space related perturbation theory for MHD  $\alpha^2$  dynamoes. Proc. Appl. Math. Mech. Vol. 6(1). 2006. P. 637-638.
  12. Kirillov O.N., Seyranian A.P. Effect of small internal and external damping on the stability of continuous non-conservative systems. Proceedings CDROM of the ENOC-2005, Eindhoven, The Netherlands, 7-12 August 2005. P. 2428-2436.
  13. Kirillov O.N., Mailybaev A.A., and Seyranian A.P. On eigenvalue surfaces near a diabolic point. Proceedings of the International Conference "Physics and Control". St.-Petersburg. Russia. August 24-26. 2005. P. 319-325.
  14. Mailybaev A.A., Kirillov O.N., and Seyranian A.P.. Strong and weak coupling of eigenvalues of complex matrices. Proceedings of the International Conference "Physics and Control". St.-Petersburg. Russia. August 24-26. 2005. P. 312-318.
  15. Kirillov O.N. Sensitivity analysis of the roots of the characteristic polynomial and stability of non-conservative systems. Proceedings of the International Conference "Physics and Control". St.-Petersburg. Russia. August 24-26. 2005. P. 206-211.
  16. Kirillov O.N. Seyranian A.P. Dissipation induced instabilities in continuous non-conservative systems. Proc. Appl. Math. Mech. Vol. 5(1). 2005. P. 97-98. (PDF)
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  20. Kirillov O.N. How do small velocity-dependent forces (de)stabilize a non-conservative system? Proceedings of the International Conference "Physics and Control". St.-Petersburg. Russia. August 20-22. 2003. Vol. 4. P. 1090-1095.
  21. Kirillov O.N., Seyranian A.P. Overlapping of Characteristic Curves and Optimization of Nonconservative Systems. Proceedings of the 15th Nordic Seminar on Computational Mechanics. Aalborg. Denmark. Edited by E. Lund, N. Olhoff, J. Stegmann. 2002. P. 227-228.
  22. Kirillov O.N., Seyranian A.P. Metamorphoses of Characteristic curves and Optimization of Nonconservative Systems. Proceedings of XXX Summer School APM'2002. June 27 - July 6, 2002. St. Petersburg (Repino), Russia. P. 342-347.
  23. Kirillov O.N., Seyranian A.P. Bifurcation of Eigenvalues of Nonselfadjoint Differential Operators in Nonconservative Stability Problems. In: Offshore mechanics and Arctic engineering; OMAE 2002 (2002), P. 31-38.
  24. Kirillov O.N., Seyranian A.P. Bifurcation of eigenvalues of nonselfadjoint differential operators with an application to mechanical problems. Proceedings of the Seminar "Time, Chaos and Mathematical Problems". Eds.: R.I. Bogdanov and A.S. Pechentsov. 2000. Vol. 2. P. 217-240.

25. Kirillov O.N., Seyranian A.P. Optimality conditions in nonconservative stability problems. Topology optimization of structures and composite continua. In NATO Science Series II: Mathematics, Physics, and Chemistry. Edited by G.I.N. Rozvany and N. Olhoff. 2000. Vol. 7. P. 363-365. Kluwer Academic Publishers, Dordrecht / Boston / London.
  26. Kirillov O.N., Seyranian A.P. Optimization of Stability of a Flying Column. 3rd World Congress of Structural and Multidisciplinary Optimization. Buffalo. New York (USA). May 17-21, 1999. Short paper proceedings. Vol. 2. P. 355-357.
  27. Kirillov O.N., Seyranian A.P. Optimization of Stability of a Flexible Missile under Follower Thrust. 7th AIAA/USAF/NASA/ISSMO Symposium on Multidisciplinary Analysis and Optimization. St.Louis. Missouri (USA). September 2-4. 1998. AIAA Paper #98-4969. P. 2063-2073.
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## WORKSHOPS

1. 8th Workshop Operator Theory in Krein Spaces and Inverse Problems, December 18-21, 2008, Technische Universität Berlin, Institut für Mathematik, Berlin, Germany ("Determining role of Krein signature for three-dimensional Arnold tongues of oscillatory dynamos", lecture, December 21)
2. 8th Workshop Operator Theory in Krein Spaces and Inverse Problems, December 18-21, 2008, Technische Universität Berlin, Institut für Mathematik, Berlin, Germany ("Two models of Krein-space related physics: the MHD alpha-2-dynamo and the PT-symmetric Bose-Hubbard model", lecture, December 20)
3. O.N. Kirillov, "How to play a disc brake." BIRS 07w5068 Workshop "Geometric Mechanics: Continuous and Discrete, finite and infinite dimensional", August 12-17, 2007, Banff, Canada.
4. O.N. Kirillov, U. Guenther. "Krein space related perturbation theory for MHD alpha-2 dynamo and resonant unfolding of diabolical points." International Summer School and Workshop Operator Algebras, Operator Theory and Applications - WOAT 2006, Instituto Superior Tecnico, Universidade Tecnica de Lisboa, Portugal, 1-5 September, 2006.
5. U. Guenther, O.N. Kirillov, F. Stefani, M. Znojil. Three models of Krein-space related physics: PT- symmetric Quantum Mechanics, Squire equation and the alpha-2 dynamo. 17th International Workshop on Operator Theory and Applications. Research Institute of Mathematics, Seoul National University, Korea, July 31 - August 3, 2006.
6. O.N. Kirillov. "Tippe Top inversion and EPs." 5th International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics. 3-8 July. 2006. Bologna. Italy.
7. U. Guenther, O.N. Kirillov. "New results on the spectrum of the MHD alpha-2 dynamo and on Jordan algebras related canonical structures of PT-symmetric matrices." 5th International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics. 3-8 July. 2006. Bologna. Italy.
8. Kirillov O.N, Guenther U. "Perturbation theory for non-self-adjoint operator matrices and its application to the MHD alpha-2 dynamo." Abstracts of the 4th International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics, University of Stellenbosch, Western Cape, South Africa, November 23-25, 2005.
9. Mailybaev A.A., Kirillov O.N. "Berry phase around EP and DP degeneracies of non-Hermitian Hamiltonians." Abstracts of the 4th International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics, University of Stellenbosch, Western Cape, South Africa, November 23-25, 2005.
10. Guenther U., Kirillov O.N., Stefani F. "Bundle stratification of PT-symmetric 4x4 matrix systems and 4th order spectral branch points of MHD alpha-2 dynamo." Abstracts of the 4th International Workshop on Pseudo-Hermitian Hamiltonians in

Quantum Physics, University of Stellenbosch, Western Cape, South Africa, November 23-25, 2005.

11. Kirillov O.N., Mailybaev A.A., Seyranian A.P. "Unfolding of eigenvalue surfaces near a diabolic point due to a non-Hermitian perturbation." Abstracts of the 3rd International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics. Koc University, Istanbul, June 20-22, 2005.
12. Mailybaev A.A., Kirillov O.N., Seyranian A.P. "Geometric phase around exceptional points." Abstracts of the 3rd International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics. Koc University, Istanbul, June 20-22, 2005.
13. Seyranian A.P., Kirillov O.N., Mailybaev A.A. "Coupling of eigenvalues of complex matrices at diabolic and exceptional points." Abstracts of the 3rd International Workshop on Pseudo-Hermitian Hamiltonians in Quantum Physics. Koc University, Istanbul, June 20-22, 2005.
14. Kirillov O.N., Seyranian A.P. "Metamorphoses of characteristic curves and optimization of nonconservative systems." XXX Summer school "Advanced problems in Mechanics" (June 27-July 6, 2002, St. Petersburg). Book of Abstracts. P.57.

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### Conference reports

1. DPG Meeting, March 22-27, 2009, Dresden, Germany ("Determining role of Krein signature for three-dimensional Arnold tongues of oscillatory MHD dynamos", lecture, March 25)
2. MOVIC 2008 - The International Conference on Motion and Vibration Control, 15-18 September 2008, Munich, Germany ("Sensitivity analysis of gyroscopic and circulatory systems prone to dissipation-induced instabilities", lecture, September 17)
3. ISMA 2008 - International Conference on Noise and Vibration Engineering. 15-17 September 2008, Leuven, Belgium ("Subcritical flutter in the acoustics of friction of the spinning rotationally symmetric elastic continua", lecture, September 15)
4. 22nd International Congress of Theoretical and Applied Mechanics (ICTAM2008), August 24-30, 2008, Adelaide, Australia ("Subcritical flutter in the problems of acoustics of friction", lecture, August 28)
5. 5th European Congress of Mathematics, July 14-18, 2008, Amsterdam, The Netherlands ("Homotopic deformations of the Arnold tongue patterns in the MHD  $\alpha$ -2-dynamo spectrum", poster)
6. 75th SAE World Congress and Exhibition, April 14-17, 2008, Detroit, MI, USA ("How to Play a Disc Brake: A Dissipation-Induced Squeal", lecture, April 14) O.N. Kirillov, Dissipation-induced subcritical flutter in acoustics of friction. GAMM 2008, March 31 - April 4, Bremen, Germany
7. U. Guenther, O.N. Kirillov, Homotopic deformations of the Arnold tongue patterns in the MHD  $\alpha$ -2-dynamo spectrum. GAMM 2008, March 31 - April 4, Bremen, Germany
8. O.N. Kirillov, Stabilizing and destabilizing effect of breaking the Hamiltonian and reversible symmetry. Abstracts of the 2nd International Conference on matrix methods and operator equations, July 23-27, 2007. Institute of Numerical Mathematics, Russian Academy of Sciences. Moscow, Russia. P. 41-42.
9. O.N. Kirillov. Gyroscopic stabilization and destabilization in non-conservative systems. Abstracts for ICIAM07, July 16-20, 2007, Zurich, Switzerland, P. 62-63.
10. U. Guenther, O.N. Kirillov. Asymptotic methods for spherically symmetric MHD  $\alpha^2$  dynamo. Abstracts for ICIAM07, July 16-20, 2007, Zurich, Switzerland, P. 125.
11. O.N. Kirillov, P. Hagedorn, G. Spelsberg-Corspeter, U. Guenther. Bifurcation of eigenvalues of non-self-adjoint boundary value problems of mechanics and MHD. International Conference "Modern Analysis and Applications- MAA 2007" dedicated to the centenary of Mark Krein. Odessa, Ukraine, April 9-14, 2007. Book of abstracts. P. 71.
12. U. Guenther, F. Stefani, O.N. Kirillov. The spherically symmetric  $\alpha^2$ -dynamo, resonant unfolding of diabolical points and third-order exceptional points in Krein space related setups. DI Microconference Analytic and algebraic methods in physics, February 20, 2007, Villa Lanna, Prague, Czech Republic.
13. O.N. Kirillov, U. Guenther. Resonance effects in MHD  $\alpha$ -2 dynamos. Abstracts of the 9th MHD days 2006, 4-5 December, Max-Planck Institute for Astronomy, Heidelberg, Germany. P. 12-13.
14. O.N. Kirillov, U. Guenther. Krein space related perturbation theory for MHD  $\alpha$ -2 dynamos and resonant unfolding of diabolical points. Abstracts of the ICM 2006, 22-30 August, Madrid, Spain. P. 444-445.

15. G. Spelsberg-Korspeter, D. Hochlenert, O. N. Kirillov, P. Hagedorn. Modelling and nonlinear analysis of break squeal - self-excited vibrations in moving continua. Abstracts of the 11th Conference on Nonlinear Vibrations, Stability, and Dynamics of Structures. August 13-17, 2006. Blacksburg, VA, USA.
16. O.N. Kirillov, A.A. Mailybaev, and A.P. Seyranian. Unfolding of eigenvalue surfaces near a diabolic point due to a complex perturbation. Joint GAMM-SIAM Conference on Applied Linear Algebra. July 24-27. 2006. Duesseldorf, Germany. Book of abstracts. P. 105.
17. Seyranian A.P., Mailybaev A.A., Kirillov O.N. Multiparameter stability theory with mechanical applications. IXth International Symposium "Stability and oscillations in non-linear control systems", Institute of Control Sciences RAS, May 31 - June 2, 2006. (invited lecture).
18. Seyranian A.P., Mailybaev A.A., Kirillov O.N. Bifurcation of eigenvalues. Modern physical problems. 3rd International Conference: Chebyshev's Mathematical Ideas and Applications to the Modern Science. Obninsk State University, May 14-18, Obninsk, Russia.
19. Kirillov O.N., Guenther U. Krein space related perturbation theory for MHD alpha-2 dynamos. Book of Abstracts of the 77th Annual Scientific Conference GAMM. (March 27-31, 2006, Berlin). P. 368-369.
20. Kirillov O.N., Seyranian A.P. Effect of small internal and external damping on the stability of continuous non-conservative systems. 5th EUROMECH Nonlinear Dynamics Conference. Eindhoven University of Technology. August 7-12, 2005. Book of abstracts. P. 321.
21. Kirillov O.N. Bifurcation of the roots of the characteristic polynomial and destabilization paradox in non-conservative systems. Alexander von Humboldt Einfuehrungstagung. Mainz. 13-15 Oktober 2005. Abstracts. P. 48.
22. Kirillov O.N. Bifurcation of the roots of the characteristic polynomial and destabilization paradox. International Symposium on Nonconservative and Dissipative Problems in Mechanics. 11-14 September 2005. Novi Sad. Serbia. Serbian Academy of Arts and Sciences. Book of abstracts. P. 20.
23. Kirillov O.N., Seyranian A.P. Dissipation Induced Instabilities in Continuous Non-Conservative Systems. 76th Annual Scientific Conference GAMM 2005. Abstracts. Part 1. March 28 - April 1, 2005. Universite de Luxembourg. P. 63.
24. Kirillov O.N. An Analytical Theory of the Destabilization Paradox in Non-Conservative Systems. In: COMPUTATIONAL MECHANICS; Abstracts of the Sixth World Congress on Computational Mechanics in conjunction with APCOM'04, Sept. 5-10, 2004, Beijing, China. 2004 Tsinghua University Press & Springer-Verlag. Vol. 1. P. 473.
25. Kirillov O.N. Stabilizing and destabilizing effect of small velocity-dependent forces on non-conservative systems: new results. Book of Abstracts of the 75th Annual Scientific Conference GAMM. (March 21-27, 2004, Dresden). P. 35-36.
26. Kirillov O.N. A theory of the destabilization paradox in non-conservative systems, 4th European Congress of Mathematics, Stockholm (Sweden), 2004. Abstracts, <http://www.math.kth.se/4ecm/abstracts/14.50.pdf>
27. Seyranian A.P., Mailybaev A.A., Kirillov O.N. Multiparameter stability theory with mechanical applications. Abstracts of the 7th International Conference "Chaos-2004". October 1-6, 2004. Saratov. Russia. P. 147-149.
28. Kirillov O.N. Destabilization paradox in non-conservative systems. Book of Abstracts of the International Conference on Differential Equations and Dynamical Systems. Suzdal. Russia. July 5-10. 2004. P. 275-276.
29. Kirillov O.N. How do small velocity-dependent forces (de)stabilize a non-conservative system? Abstracts of the 5th EUROMECH Solid Mechanics Conference. August 17-22. 2003. AUT. Thessaloniki. Greece. P. 162.
30. Kirillov O.N. How do small velocity-dependent forces (de)stabilize a non-conservative system? Abstracts of the International Conference "Physics and Control." August 20-22. 2003. St.-Petersburg. P. 94.
31. Kirillov O.N., Seyranian A.P. Collapse of the Keldysh chains and stability of continuous non-conservative systems. Third International Conference "Polyahovskie chtenija". St.-Petersburg. Book of abstracts. 2003. P.77-78.
32. Kirillov O.N. How do small velocity-dependent forces (de)stabilize a non-conservative system? Abstracts of the International Conference "Kolmogorov and Contemporary Mathematics", Moscow State University. Moscow. 2003. P. 185-186.
33. Kirillov O.N. Collapse of Keldysh chains and stability boundaries of non-conservative systems. Book of Abstracts of the Annual Scientific Conference GAMM. (March 25-28, 2002, Augsburg) P. 77.
34. Kirillov O.N. Metamorphoses of characteristic curves and optimization of non-conservative systems. ICM 2002 Satellite Conference on Control and Optimization. (August 30-September 1, 2002, Xi'an, China).
35. Kirillov O.N., Seyranian A.P. Collapse of Keldysh chains and stability of continuous non-conservative systems. International Conference "Mathematical ideas of P. L. Chebyshev and their

- application for modern problems of natural sciences." (Obninsk, May 14-18, 2002). Book of abstracts. P. 49.
36. Kirillov O.N., Seyranian A.P. Bifurcation of eigenvalues of nonselfadjoint differential operators and stability of nonconservative systems. Abstracts of the Second International Congress "Nonlinear Dynamical Analysis". Moscow, June 3-8, 2002.
  37. Kirillov O.N. Singularities of the stability boundary of circulatory systems. All-Russian Young Scientists Competition on Mechanics and Control Dedicated to the 100th Anniversary of A.I. Lurie. December 13-14, 2001, Saint-Petersburg.
  38. Kirillov O.N., Seyranian A.P. Phenomenon of overlapping of characteristic curves in nonconservative systems: theory and applications. Compilation of abstracts for the First MIT Conference on Computational Fluid and Solid Mechanics. 2001. Cambridge. MA. P. 73.
  39. Kirillov O.N. Bifurcation of eigenvalues of nonselfadjoint differential operators and stability of nonconservative systems. Book of abstracts. International Conference "Differential Equations and Related Topics" Dedicated to the Centenary Anniversary of I.G. Petrovskii. 2001. P. 191. Moscow.
  40. Kirillov O.N. On a non-smooth optimization problem. 8th All-Russian Congress on Theoretical and Applied Mechanics. Perm. Russia. August 23-29, 2001. Book of abstracts. P. 321.
  41. Kirillov O.N. On a non-smooth optimization problem on stability criteria. International School on Dynamical and Controlled Systems. Suzdal. 2001 Book of Abstracts. P. 28.
  42. Kirillov O.N. Metamorphoses of characteristic curves in non-conservative systems dependent on parameters. Conference of Young Scientists of the Institute of Mechanics. October 10-12, 2001.
  43. Seyranian A.P., Mailybaev A.A., Kirillov O.N. Singularities of stability boundaries: analysis and applications. Lomonosov Reading - 2000.
  44. Kirillov O.N., Seyranian A.P. Optimization of stability of a flexible column moving due to action of the follower force. Applied problems of Mechanics of Rocket and Space systems. All-Russian Conference dedicated to 40-th Anniversary of the department "Aerospace systems". N.E. Bauman Moscow State Technical University. December 5, 2000. P. 111.
  45. Seyranian A.P., Kirillov O.N. Singularities of stability boundaries of circulatory systems. Int. Conference on Differential Equations and Dynamical Systems. Suzdal. Abstracts. 2000. P. 73.
  46. Kirillov O.N., Seyranian A.P. Stability boundaries and overlapping of characteristic curves in circulatory systems. 4th EUROMECH Solid Mechanics Conference. Book of abstracts. 2000. Vol. 2. P. 533. Universite de Metz. France.
  47. Seyranian A.P., Kirillov O.N. Bifurcation diagrams and stability boundaries of discrete and continuous circulatory systems. 4th EUROMECH Solid Mechanics Conference. Book of abstracts. 2000. Vol. 2. P. 644. Universite de Metz. France.
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  49. Kirillov O.N., Seyranian A.P. On stability boundaries of circulatory systems. Lomonosov Reading - 1999.
  50. Kirillov O.N., Seyranian A.P. Optimal distributions of mass and stiffness in a problem of flexible stability of a flying column. 5th International Symposium on Dynamical and Technological Problems of Structures and Solids. Moscow Aviation Institute. 1999. P. 37-38.
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