Renato Carlos Calleja Castillo
Lista de Citas

En este documento se incluyen las citas a los artículos de Renato Carlos Calleja Castillo. Se excluyen las auto-citas. Las citas tipo B incluyen a alguno de los coautores que no sean R. C. Calleja Castillo.

1. R. Calleja, A. Celletti, J. Gimeno, R. de la Llave, **Accurate computations up to break-down of quasi-periodic attractors in the dissipative spin-orbit problem**, J. Nonlinear Sci.34(2024), no.1, Paper No. 12., preprint: ArXiv_2107.02853

   1.1. Tipo B, Alessandra Celletti, From infinite to finite time stability in Celestial Mechanics and Astrodynamics, Astrophysics and Space Science, Volume 368, article number 106, (2023).

   1.2. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

   1.3. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). Breakdown of tori in low and high dimensional conservative and dissipative standard maps ArXiv, https://arxiv.org/abs/2212.13960

   1.4. Tipo B, Celletti, A., Gimeno, J., & Misquero, M. (2022). The Spin-Spin Problem in Celestial Mechanics. *JOURNAL OF NONLINEAR SCIENCE*, *32*(6). https://doi.org/10.1007/s00332-022-09840-7

   1.5. JE Massetti, Attractive invariant circlesła Chenciner, arXiv preprint arXiv:2306.13476, 2023 - arxiv.org

2. R. Calleja, A. Celletti, R. de la Llave, **KAM quasi-periodic solutions for the dissipative standard map** Commun. Nonlinear Sci. Numer. Simul. 106, (2022), 106111, pdf, preprint: ArXiv_2002.10647

   Citado por:

   2.1. R Mastroianni, U Locatelli, Computer-assisted proofs of existence of KAM tori in planetary dynamical models of nu-And b, Communications in Nonlinear Science and Numerical Simulation Volume 130, March 2024, 107706

2.2. V. Linroth, Computer assisted proofs for hyperbolic quasi-periodic invariant tori in dissipative twist maps, arXiv preprint arXiv:2305.04640, 2023 - arxiv.org

2.3. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

2.4. D Blessing, JD James, Weighted Birkhoff Averages and the Parameterization Method, arXiv preprint arXiv:2306.16597, 2023 - arxiv.org

2.5. Liu, C., & Xing, J. (2022). A New Proof Of Moser's Theorem. *Journal Of Applied Analysis And Computation*, *12*(4), 1679–1701. https://doi.org/10.11948/20220161

2.6. Tipo B, A., Bustamante, De la Llave, R., (2023). *A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori*. http://arxiv.org/abs/2303.17291

2.7. D Elebiary Loren, Numerical investigation of the transition from conservative to weakly-dissipative dynamics 2020 https://diposit.ub.edu/dspace/handle/2445/176954

2.8. EAC Parrales LA ÚLTIMA CURVA INVARIANTE PARA EL STANDARD MAP, Revista Bases de la Ciencia, 2022 https://revistas.utm.edu.ec/index.php/Basedelaciencia/article/view/5083

3. R. Calleja, A. Celletti, J. Gimeno, R. de la Llave, **KAM quasi-periodic tori for the dissipative spin-orbit problem** Commun. Nonlinear Sci. Numer. Simul. 106, (2022), 106099, pdf, preprint: ArXiv_2107.02853

   Citado por:

3.1. Tipo B, Alessandra Celletti, From infinite to finite time stability in Celestial Mechanics and Astrodynamics, Astrophysics and Space Science, Volume 368, article number 106, (2023).

3.2. R Mastroianni, U Locatelli, Computer-assisted proofs of existence of KAM tori in planetary dynamical models of nu-And b, Commu-

nications in Nonlinear Science and Numerical Simulation Volume 130, March 2024, 107706

3.3. Koch, H. (n.d.). Attracting invariant tori and analytic conjugacies. Ma.Utexas.Edu. Retrieved September 27, 2023, from https://web.ma.utexas.edu/users/koch/papers/hypertori.pdf

3.4. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

3.5. Tipo B, A Celletti , Quasi-periodic attractors for dissipative systems in Celestial Mechanics, Advances in Nonlinear Science, 2021, http://ics.org.ru/docs/TezisBorisov.pdf#page=20

3.6. Tipo B, J Gimeno, A Jorba, M Jorba-Cuscó, N Miguel, Maorong Zou, Numerical integration of high-order variational equations of ODEs, APPLIED MATHEMATICS AND COMPUTATION, vOLUME 442, 1 April 2023,127743

3.7. Liu, C., & Xing, J. (2022). A NEW PROOF OF MOSER'S THEOREM. *JOURNAL OF APPLIED ANALYSIS AND COMPUTATION*, *12*(4), 1679–1701. https://doi.org/10.11948/20220161

3.8. Locatelli, U., Caracciolo, C., Sansottera, M., & Volpi, M. (2021). A numerical criterion evaluating the robustness of planetary architectures; applications to the u Andromedae system. *Proceedings of the International Astronomical Union*, *15*, 65–84. https://doi.org/10.1017/S1743921322000461

3.9. Tipo B, Bustamante, A., Celletti, A., arXiv:2212.13960, C. L. preprint, & 2022, undefined. (n.d.). Breakdown of tori in low and high dimensional conservative and dissipative standard maps. *Arxiv.Org*. Retrieved June 6, 2023, from https://arxiv.org/abs/2212.13960

3.10. Capiński, M. J., & Wodka-Cholewa, N. (2022). Computer assisted proof of drift orbits along normally hyperbolic manifolds II: Application to the restricted three body problem. *Communications in Nonlinear Science and Numerical Simulation*, *111*, 106424. https://doi.org/10.1016/j.cnsns.2022.106424

3.11. Tipo B, Gimeno, J., Jorba, A., Jorba-Cusco, M., Miguel, N., & Zou, M. (2023). Numerical integration of high-order variational equations of ODEs. *APPLIED MATHEMATICS AND COMPUTATION*, *442*. https://doi.org/10.1016/j.amc.2022.127743

3.12. Science, A. C.-A. in N., & 2021, undefined. (n.d.). Quasi-periodic attractors for dissipative systems in Celestial Mechanics. *Ics.Org.Ru*. Retrieved June 6, 2023, from http://ics.org.ru/docs/TezisBorisov.pdf#page=20

3.13. Tipo B, Celletti, A., Gimeno, J., & Misquero, M. (2022). The Spin-Spin Problem in Celestial Mechanics. *JOURNAL OF NONLINEAR SCIENCE*, *32*(6). https://doi.org/10.1007/s00332-022-09840-7

3.14. Zhong, J., & Ross, S. D. (2021). Transition criteria and phase space structures in a three degree of freedom system with dissipation. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, *54*(36). https://doi.org/10.1088/1751-8121/ac16c7

4. R. Calleja, A. Celletti, J. Gimeno, R. de la Llave, **Efficient and accurate KAM tori construction for the dissipative spin-orbit problem using a map reduction** , Journal of Nonlinear Science volume 32, Article number: 4 (2022), pdf, preprint: ArXiv_2106.09175

   Citado por:

   4.1. Tipo B, Alessandra Celletti, From infinite to finite time stability in Celestial Mechanics and Astrodynamics, Astrophysics and Space Science, Volume 368, article number 106, (2023).

   4.2. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

   4.3. Chen, Y. M., & Liu, J. K. (2023). Circularly distributed multipliers with deterministic moduli assessing the stability of quasiperiodic response. *Physical Review E*, *107*(1). https://doi.org/10.1103/PHYSREVE.107.014218

   4.4. A. Fernandez, A. Haro, & J.M. Mondelo, (2022). *Flow map param-*

eterization methods for invariant tori in quasi-periodic Hamiltonian systems. http://arxiv.org/abs/2212.00412

4.5. Tipo B, A Celletti , Quasi-periodic attractors for dissipative systems in Celestial Mechanics, Advances in Nonlinear Science, 2021, http://ics.org.ru/docs/TezisBorisov.pdf#page=20

4.6. Tipo B, Celletti, A., Gimeno, J., & Misquero, M. (2022). The Spin-Spin Problem in Celestial Mechanics. *JOURNAL OF NONLINEAR SCIENCE*, *32*(6). https://doi.org/10.1007/s00332-022-09840-7

4.7. J Zhong, SD Ross (2021). Transition criteria and phase space structures in a three degree of freedom system with dissipation. *Iopscience.Iop.Org.* https://doi.org/10.1088/1751-8121/ac16c7

5. Calleja, R., Celletti, A., de la Llave, R. **KAM Theory for Some Dissipative Systems.** In: Baù, G., Di Ruzza, S., Páez, R.I., Penati, T., Sansottera, M. (eds) New Frontiers of Celestial Mechanics: Theory and Applications. I-CELMECH 2020. Springer Proceedings in Mathematics & Statistics, vol 399. Springer, Cham. (2022), pdf

   Citado por:

5.1. H Fallah, AL Shilnikov, Quasi-Periodicity at Transition from Spiking to Bursting in the Pernarowski Model of Pancreatic Beta Cells, REGULAR AND CHAOTIC DYNAMICS, 2024

5.2. Koch, H. (n.d.). Attracting invariant tori and analytic conjugacies. Ma.Utexas.Edu. Retrieved September 27, 2023, from https://web.ma.utexas.edu/users/koch/papers/hypertori.pdf

5.3. Akingbade, S. W., Gidea, M., & M-Seara, T. (2023). Arnold Diffusion in a Model of Dissipative System. SIAM Journal on Applied Dynamical Systems, 22(3), 1983–2023. https://doi.org/10.1137/22M1525508

5.4. Gidea, M., de la Llave, R., & Musser, M. (2022). Melnikov method for non-conservative perturbations of the restricted three-body problem. *Celestial Mechanics and Dynamical Astronomy*, *134*(1). https://doi.org/10.1007/S10569-021-10059-Z

6. R. Calleja, D. del-Castillo-Negrete, D. Martinez-del-Rio and A. Olvera, **A new method to compute periodic orbits in general symplectic maps** , Commun. Nonlinear Sci. Numer. Simul. 99, (2021), 105838, pdf, preprint: ArXiv_2003.02788

   Sin citas

7. R. Calleja, C. García-Azpeitia, J.P. Lessard, and J.D. Mireles-James, **From the Lagrange polygon to the figure eight I: Numerical evidence extending a conjecture of Marchal**, Celestial Mechanics and Dynamical Astronomy volume 133, Article number: 10 (2021), pdf preprint: ArXiv_2012.10759

   Sin citas

8. R. Calleja, M. Canadell, A. Haro, **Non-twist tori in conformally symplectic systems,** Commun. Nonlinear Sci. Numer. Simul. 96, (2021), 105695, pdf, preprint: ArXiv_2005.09754

   Citado por:

   8.1. D Blessing, JD James, Weighted Birkhoff Averages and the Parameterization Method, arXiv preprint arXiv:2306.16597, 2023 - arxiv.org

   8.2. Tipo B, A. Fernandez, A. Haro, & J.M. Mondelo, (2022). *Flow map parameterization methods for invariant tori in quasi-periodic Hamiltonian systems.* http://arxiv.org/abs/2212.00412

   8.3. À.Jorba (2022). Computational methods in perturbation theory. *Springer.* https://doi.org/10.1007/978-1-0716-2621-4_758

9. A. P. Bustamante and R. Calleja, **Corrigendum and Addendum to "Computation of domains of analyticity for the dissipative standard map in the limit of small dissipation",** Physica D 417 (2021) 132837, pdf, preprint: ArXiv_2010.07500

   Citado por:

   9.1. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

9.2. Tipo B, Bustamante, A., Celletti, A., arXiv:2212.13960, C. L. preprint, & 2022, undefined. (n.d.). Breakdown of tori in low and high dimensional conservative and dissipative standard maps. *Arxiv.Org*. Retrieved June 6, 2023, from https://arxiv.org/abs/2212.13960

9.3. À.Jorba (2022). Computational methods in perturbation theory. *Springer*. https://doi.org/10.1007/978-1-0716-2621-4_758

9.4. Tipo B, Bustamante, A. P. (2021). *Domains of analyticity and Gevrey estimates of tori in weakly dissipative systems*. https://smartech.gatech.edu/handle/1853/66079

9.5. Tipo B, Bustamante, A., de la Llave, R., Gevrey estimates for asymptotic expansions of Tori in weakly dissipative systems. Nonlinearity,(2022), *Iopscience.Iop.Org*. https://doi.org/10.1088/1361-6544/ac5cd5

10. R. Calleja, C. García-Azpeitia, J.P. Lessard, and J.D. Mireles-James, **Torus knot choreographies in the n-body problem**, Nonlinearity, Volume 34, Number 1, (2021) 313, pdf, preprint: FAU

Citado por:

10.1. Tipo B, García-Azpeitia, C., & Fontaine, M. (n.d.). Braids by cabling of the N-body problem Braids of the N-body problem by cabling a body in a central configuration. In iopscience.iop.org. Retrieved February 26, 2021, from https://www.researchgate.net/publication/333865706

10.2. Tipo B, Fontaine, M., & García-Azpeitia, C. (2021). Braids of the N-body problem I: Cabling a body in a central configuration. *Nonlinearity*, *34*(2), 822–851. https://doi.org/10.1088/1361-6544/abcea4

10.3. Capiński, M. J., Kepley, S., & Mireles James, J. D. (2023). Computer assisted proofs for transverse collision and near collision orbits in the restricted three body problem. *Journal of Differential Equations*, *366*, 132–191. https://doi.org/10.1016/j.jde.2023.03.053

10.4. Church, K. E. M., & Fortin, C. (2021). Computer-Assisted Methods for Analyzing Periodic Orbits in Vibrating Gravitational Billiards. *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, *31*(08). https://doi.org/10.1142/S0218127421300214

10.5. Lipton, M., Townsend, A., & Strogatz, S. H. (2022). Exploring the electric field around a loop of static charge: Rectangles, stadiums, ellipses, and knots. *PHYSICAL REVIEW RESEARCH*, *4*(3). https://doi.org/10.1103/PhysRevResearch.4.033249

10.6. Lipton, M., Strogatz, S. H., & Townsend, A. (2022). *Zeros of the electric field around a charged knot.* http://arxiv.org/abs/2204.10295

11. Calleja, R., Celletti, A., and de la Llave, R., **Existence of whiskered KAM tori of conformally symplectic systems**, Nonlinearity, Volume 33, Number 1, (2020) 538–597 pdf, preprint: ArXiv_1901.07483

    Citado por:

    11.1. Adrián, A., Bustamante, (2023). A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori. *Arxiv.Org.* https://arxiv.org/pdf/2303.17291

    11.2. Tipo B, de la Llave, R., & Xu, L. (2021). Whiskered Tori for Presymplectic Dynamical Systems. *Journal of Dynamics and Differential Equations*, *33*(1). https://doi.org/10.1007/s10884-020-09823-w

12. Calleja, R., Celletti, A., and de la Llave, R., **Whiskered KAM Tori of Conformally Symplectic Systems**, Mathematics Research Reports, Volume 1 (2020), 15-29 pdf , preprint: ArXiv_1901.06059

    Sin citas.

13. A. P. Bustamante and R. Calleja, **Computation of domains of analyticity for the dissipative standard map in the limit of small dissipation,** Physica D: Nonlinear Phenomena, Volume 395, August 2019, Pages 15-23, pdf , preprint: ArXiv_1712.05476

    Citado por:

    13.1. À.Jorba (2022). Computational methods in perturbation theory. *Springer.* https://doi.org/10.1007/978-1-0716-2621-4_758

13.2. Tipo B, Adrián, A., Bustamante, De la Llave, R., (2023). A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori. *Arxiv.Org*. https://arxiv.org/pdf/2303.17291

13.3. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. *Mat.Uniroma2.It*. Retrieved June 6, 2023, from http://www.mat.uniroma2.it/celletti/BCL_2023.pdf

13.4. Tipo B, Bustamante, A., Celletti, A., arXiv:2212.13960, C. L. preprint, & 2022, undefined. (n.d.). Breakdown of tori in low and high dimensional conservative and dissipative standard maps. *Arxiv.Org*. Retrieved June 6, 2023, from https://arxiv.org/abs/2212.13960

13.5. Mathematics, À. J.-P. T., and, M., & 2022, undefined. (n.d.). Computational methods in perturbation theory. *Springer*. https://doi.org/10.1007/978-1-0716-2621-4_758

13.6. Tipo B, Bustamante, A. P. (2021). *Domains of analyticity and Gevrey estimates of tori in weakly dissipative systems*. https://smartech.gatech.edu/handle/1853/66079

13.7. Tipo B, Bustamante, A. P., & la Llave, R. (2022). Gevrey estimates for asymptotic expansions of Tori in weakly dissipative systems{*}. *NONLINEARITY*, *35*(5), 2424–2473. https://doi.org/10.1088/1361-6544/ac5cd5

13.8. Andrés Parrales, E., José Larreal Barreto, O., (2022). LA ÚLTIMA CURVA INVARIANTE PARA EL STANDARD MAP. *Revistas.Utm.Edu.Ec*, *7*(3), 89–106. https://doi.org/10.33936/revbasdelaciencia.v7iESPECIAL

13.9. Mumtaz, M., Hussain, N., Salam, S., & Bilal, M. (2022). Multifunctional nanodiamonds as emerging platforms for cancer treatment, and targeted delivery of genetic factors and protein medications—a review. *Journal of Materials Science*, *57*(17), 8064–8099. https://doi.org/10.1007/s10853-022-07168-x

14. R. Calleja, E. Doedel, and C. García-Azpeitia, **Choreographies in the n-vortex problem,** Regular and Chaotic Dynamics, 2018, vol. 23,

no. 5, pp. 595-612, pdf,view only, preprint: ArXiv_1807.08212

Citado por:

14.1. Tipo B, Kevin Constantineau, Carlos García-Azpeitia, Luis C García-Naranjo, Jean-Philippe Lessard, Determination of stable branches of relative equilibria of the n-vortex problem on the sphere, arXiv preprint arXiv https://arxiv.org/abs/2309.04320, 2023 - arxiv.org

14.2. B Wembe (2021), Méthodes géométriques et numériques en contrôle optimal et problèmes de Zermelo sur les surfaces et révolution: applications https://theses.hal.science/tel-03601394/

14.3. Bonnard, B., Cots, O., & Wembe, B. (2021). A Zermelo navigation problem with a vortex singularity. *ESAIM-CONTROL OPTIMISATION AND CALCULUS OF VARIATIONS*, *27*(S). https://doi.org/10.1051/cocv/2020058

14.4. arXiv:1811.06595, Q. W. preprint, & 2018, undefined. (2018). Choreographic Holomorphic Spheres with Application to Hamiltonian Systems of -Vortex Type. *Arxiv.Org*. https://arxiv.org/abs/1811.06595

14.5. Capiński, M., Kepley, S., Equations, J. J.-J. of D., & 2023, undefined. (n.d.). Computer assisted proofs for transverse collision and near collision orbits in the restricted three body problem. *Elsevier*. Retrieved June 6, 2023, from https://www.sciencedirect.com/science/article/pii/S0022039623002486

14.6. Tipo B, Bengochea, A., … C. G.-A.-J. of D., & 2022, undefined. (n.d.). Continuation of relative equilibria in the n–body problem to spaces of constant curvature. *Elsevier*. Retrieved June 6, 2023, from https://www.sciencedirect.com/science/article/pii/S0022039621006574

14.7. Balsa, C., Cots, O., Gergaud, J., & Wembe, B. (2021). Minimum energy control of passive tracers advection in point vortices flow. *Lecture Notes in Electrical Engineering*, *695 LNEE*, 232–242. https://doi.org/10.1007/978-3-030-58653-9_22

14.8. Sokolovskiy, M. A., Koshel, K. V, Dritschel, D. G., & Reinaud, J. N. (2020). N-symmetric interaction of N hetons. I.

Analysis of the case N=2. *PHYSICS OF FLUIDS*, *32*(9). https://doi.org/10.1063/5.0019612

14.9. López, C. G. (2020). *Patterns in partial differential equations arising from fluid mechanics.* https://www.theses.fr/2020REN1S028

14.10. Tipo B, García-Azpeitia, C., & García-Naranjo, L. C. (2022). Platonic Solids and Symmetric Solutions of the N-vortex Problem on the Sphere. *Journal of Nonlinear Science*, *32*(3). https://doi.org/10.1007/S00332-022-09792-Y

14.11. Tipo B, García-Azpeitia, C. (2019). Relative periodic solutions of the n-vortex problem on the sphere. *Journal of Geometric Mechanics*, *11*(3), 427–438. https://doi.org/10.3934/jgm.2019021

14.12. D'Ambroise, J., Carretero-Gonzalez, R., Schmelcher, P., & Kevrekidis, P. G. (2022). Superfluid vortex multipoles and soliton stripes on a torus. *PHYSICAL REVIEW A*, *105*(6). https://doi.org/10.1103/PhysRevA.105.063325

14.13. Wang, Q. (2018). *Symmetric Periodic Solutions in the N-Vortex Problem.* https://tel.archives-ouvertes.fr/tel-02462245/

14.14. Tipo B, García, C. (2021). Vortex Patches Choreography for Active Scalar Equations. *Journal of Nonlinear Science*, *31*(5). https://doi.org/10.1007/S00332-021-09729-X

15. R. Calleja, E. Doedel, C. García-Azpeitia, and Carlos L. Pando, **Choreographies in the Discrete Nonlinear Schrödinger Equations,** Eur. Phys. J. Special Topics 227, 615–624 (2018), pdf, preprint: ArXiv_1801.03187

15.1. M. A. Sokolovskiy,K. V. Koshel, D. G. Dritschel, J. N. Reinaud, N-symmetric interaction of N hetons. I. Analysis of the case N = 2 Physics of Fluids 32, 096601 (2020)

16. R. Calleja, E. Doedel, and C. García-Azpeitia, **Symmetries and choreographies in families that bifurcate from the polygonal relative equilibrium of the n-body problem,** Celestial Mech. Dynam. Astronom. 130 (2018), no. 7, 130:48, pdf, preprint: **ArXiv_1702.03990, animations**

Citado por:

16.1. A., Bustamante, De la Llave, R., (2023). *A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori.* http://arxiv.org/abs/2303.17291

16.2. Tipo B, Fontaine, M., & Garcia-Azpeitia, C. (2021). Braids of the N-body problem I: cabling a body in a central configuration. *NONLINEARITY*, *34*(2), 822–851. https://doi.org/10.1088/1361-6544/abcea4

16.3. Tipo B, Barrera, C., Bengochea, A., & García-Azpeitia, C. (2021). Comet and Moon Solutions in the Time-Dependent Restricted (n+ 1) -Body Problem. *Journal of Dynamics and Differential Equations.* https://doi.org/10.1007/s10884-020-09929-1

16.4. C, G. Y.-A. de l'Institut H. P., & 2021, undefined. (2018). Connecting planar linear chains in the spatial N-body problem. *Ems.Press.* https://ems.press/journals/aihpc/articles/4077631

16.5. de la Llave, R., & Kogelbauer, F. (2019). Global persistence of Lyapunov subcenter manifolds as spectral submanifolds under dissipative perturbations. *SIAM Journal on Applied Dynamical Systems*, *18*(4), 2099–2142. https://doi.org/10.1137/18M1210344

16.6. Perdomo, O., Rivera, es, Arredondo, J. A., Casta, N., Applied Dynamical Systems, S. J., Rivera, A., & Castañeda, N. (2023). Periodic Oscillations in a -Body Problem. *SIAM*, *22*(2), 744–764. https://doi.org/10.1137/22M1484407

16.7. Tipo B, García-Azpeitia, C. (2019). Relative periodic solutions of the n-vortex problem on the sphere. *Journal of Geometric Mechanics*, *11*(3), 427–438. https://doi.org/10.3934/jgm.2019021

17. R. Calleja, A. Celletti, R. de la Llave, **Domains of analyticity of Lindstedt expansions of KAM tori in dissipative perturbations of Hamiltonian systems,** Nonlinearity 30, (2017) 3151-3202, pdf, preprint: mp_arc 15-44

Citado por:

17.1. Tipo B, AP Bustamante, R de la Llave, A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori, arXiv preprint arXiv:2303.17291, 2023

- arxiv.org

17.2. Tipo B, Bustamante, A. P., & la Llave, R. (2022). Gevrey estimates for asymptotic expansions of Tori in weakly dissipative systems{*}. *NONLINEARITY*, *35*(5), 2424–2473. https://doi.org/10.1088/1361-6544/ac5cd5

17.3. de la Llave, R., & Kogelbauer, F. (2019). Global Persistence of Lyapunov Suhcenter Manifolds as Spectral Submanifolds under Dissipative Pertarpadons. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *18*(4), 2099–2142. https://doi.org/10.1137/18M1210344

17.4. Sevryuk, M. B. (2021). Partial Preservation of Frequencies and Floquet Exponents of Invariant Tori in the Reversible KAM Context 2. *Journal of Mathematical Sciences (United States)*, *253*(5), 730–753. https://doi.org/10.1007/s10958-021-05265-x

17.5. Gentile, G., & Vaia, F. (2021). Response solutions for strongly dissipative quasi-periodically forced systems with arbitrary nonlinearities and frequencies. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *282*, 370–406. https://doi.org/10.1016/j.jde.2021.02.028

18. R. C. Calleja, A. R. Humphries and B. Krauskopf, **Resonance phenomena in a scalar delay differential equation with two state-dependent delays**, *SIAM J. Appl. Dyn. Syst.*, 16(3), 1474–1513 (2017), pdf, preprint: ArXiv_1607.02683

Citado por:

18.1. Tavakoli, Kamyar, Dynamical Complexity of Nonlinear Dynamical Systems with Multiple Delays PhD thesis, UOttawa, 2023-10-23.

18.2. Tipo B, Keane, A., Krauskopf, B., & Dijkstra, H. A. (2019). The effect of state dependence in a delay differential equation model for the El Nino Southern Oscillation. *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, *377*(2153). https://doi.org/10.1098/rsta.2018.0121

18.3. R Qesmi, JM Heffernan, J Wu, Stability Switches, Hopf Bifur-

cation and Chaotic Dynamics in Simple Epidemic Model with State-Dependent Delay International Journal of Bifurcation and ChaosVol. 33, No. 11, 2330028 (2023)

18.4. A Keane, A Neff, K Blaha, A Amann, Transitional cluster dynamics in a model for delay-coupled chemical oscillators, Chaos 33, 063133 (2023)

18.5. Tipo B, A Keane, B Krauskopf, CM Postlethwaite, (2017) Climate modelling with delay differential equations https://www.math.auckland.ac.nz/ berndk/tra

18.6. Beebe, N. H. F. (2020). A Complete Bibliography of Publications in the SIAM Journal on Applied Mathematics: 2020–2029. In *Journal on Applied Mathematics*. https://scholar.google.com/ftp://155.101.98.136/pub/tex/bib/siamjappldynsyst.pdf

18.7. Keane, A. (2016). *A dynamical systems approach to understanding the interplay between delayed feedback and seasonal forcing in the El Nino Southern Oscillation*. https://researchspace.auckland.ac.nz/handle/2292/29707

18.8. Gouari, Y., Dahmani, Z., & Ndiaye, A. (2020). A generalized sequential problem of Lane-Emden type via fractional calculus. *Moroccan Journal of Pure and Applied Analysis*, *6*(2), 168–183. https://doi.org/10.2478/MJPAA-2020-0013

18.9. Bolduc-St-Aubin, S. (2023). *Analysis and numerical analysis of periodically forced delay differential equation conceptual climate models*. https://escholarship.mcgill.ca/concern/theses/8p58pk24t

18.10. Tipo B, Krauskopf, B., & Sieber, J. (2023). Bifurcation Analysis of Systems With Delays: Methods and Their Use in Applications. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, *604*, 195–245. https://doi.org/10.1007/978-3-031-01129-0_7

18.11. Duruisseaux, V., & Humphries, A. R. (2022). BISTABILITY, BIFURCATIONS AND CHAOS IN THE MACKEY-GLASS EQUATION. *JOURNAL OF COMPUTATIONAL DYNAMICS*, *9*(3), 421–450. https://doi.org/10.3934/jcd.2022009

18.12. Duruisseaux, V., arXiv:2203.00181, A. H. preprint, & 2022, undefined. (n.d.). Bistability, bifurcations and chaos in the Mackey-Glass equation. *Arxiv.Org*. Retrieved June 6, 2023, from https://arxiv.org/abs/2203.00181

18.13. Duruisseaux, V., & Humphries, A. R. (2022). BISTABILITY, BIFURCATIONS AND CHAOS IN THE MACKEY-GLASS EQUATION. *Journal of Computational Dynamics*, *9*(3), 421–450. https://doi.org/10.3934/jcd.2022009

18.14. Tipo B, Keane, A., & Krauskopf, B. (2018). Chenciner bubbles and torus break-up in a periodically forced delay differential equation. *Nonlinearity*, *31*(6), R165–R187. https://doi.org/10.1088/1361-6544/aab8a2

18.15. Tipo B, Keane, A., Krauskopf, B., & Postlethwaite, C. M. (2017). Climate models with delay differential equations. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *27*(11), 114309. https://doi.org/10.1063/1.5006923

18.16. He, X., & Yuan, X. (2020). Construction of quasi-periodic solutions for delayed perturbation differential equations. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *268*(12), 8026–8061. https://doi.org/10.1016/j.jde.2019.11.093

18.17. He, X., & de la Llave, R. (2016). Construction of quasi-periodic solutions of state-dependent delay differential equations by the parameterization method II: Analytic case. *Journal of Differential Equations*, *261*(3), 2068–2108. https://doi.org/10.1016/j.jde.2016.04.024

18.18. Pei, L., & Wang, S. (2019). Double Hopf bifurcation of differential equation with linearly state-dependent delays via MMS. *Applied Mathematics and Computation*, *341*, 256–276. https://doi.org/10.1016/j.amc.2018.08.040

18.19. Tipo B, De Souza, D. C., & Humphries, A. R. (2019). Dynamics of a mathematical hematopoietic stem-cell population model. *SIAM Journal on Applied Dynamical Systems*, *18*(2), 808–852. https://doi.org/10.1137/18M1165086

18.20. Ndiaye, A., & Mansal, F. (2021). Existence and Uniqueness Results of Volterra-Fredholm Integro-Differential Equations via Caputo

Fractional Derivative. *JOURNAL OF MATHEMATICS*, *2021*. https://doi.org/10.1155/2021/5623388

18.21. Tipo B, M. G. Magpantay, F., & R. Humphries, A. (2020). Generalised Lyapunov-Razumikhin techniques for scalar state-dependent delay differential equations. *Discrete & Continuous Dynamical Systems - S*, *13*(1), 85–104. https://doi.org/10.3934/dcdss.2020005

18.22. Tipo B, Humphries, A., Krauskopf, B., … S. R. preprint arXiv, & 2021, undefined. (2021). Interplay between instantaneous and delayed feedback with delayed state dependence. *Arxiv.Org*. https://arxiv.org/abs/2110.01850

18.23. Keane, A., Krauskopf, B., Dynamical, C. P.-S. J. on A., & 2016, undefined. (2016). Investigating irregular behavior in a model for the El Niño Southern Oscillation with positive and negative delayed feedback. *SIAM*, *15*(3), 1656–1689. https://doi.org/10.1137/16M1063605

18.24. Sieber, J. (2017). Local bifurcations in differential equations with state-dependent delay. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *27*(11), 114326. https://doi.org/10.1063/1.5011747

18.25. Tipo B, Humphries, A. R., & Magpantay, F. M. G. (2021). Lyapunov-Razumikhin techniques for state-dependent delay differential equations. *Journal of Differential Equations*, *304*, 287–325. https://doi.org/10.1016/j.jde.2021.09.020

18.26. Terrien, S., Krauskopf, B., Broderick, N. G. R., Pammi, V. A., Braive, R., Sagnes, I., Beaudoin, G., Pantzas, K., & Barbay, S. (2023). Merging and disconnecting resonance tongues in a pulsing excitable microlaser with delayed optical feedback. *CHAOS*, *33*(2). https://doi.org/10.1063/5.0124693

18.27. Jaurigue, L., Krauskopf, B., & Lüdge, K. (2017). Multipulse dynamics of a passively mode-locked semiconductor laser with delayed optical feedback. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *27*(11), 114301. https://doi.org/10.1063/1.5006743

18.28. D Müller-Bender (2023)m Nonlinear Dynamics and Chaos in Systems with Time-Varying Delay. *Researchgate.Net*. Retrieved June

6, 2023, from https://www.researchgate.net/profile/David-Mueller-Bender/publication/345045419_Nonlinear_Dynamics_and_Chaos_in_Systems_with_Time-Varying_Delay/links/5fa29a54458515157be96323/Nonlinear-Dynamics-and-Chaos-in-Systems-with-Time-Varying-Delay.pdf

18.29. Tipo B, Humphries, A. R., Krauskopf, B., Ruschel, S., & Sieber, J. (n.d.). NONLINEAR EFFECTS OF INSTANTANEOUS AND DELAYED STATE DEPENDENCE IN A DELAYED FEEDBACK LOOP. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*. https://doi.org/10.3934/dcdsb.2022042

18.30. GOUARI Yazid, T. (n.d.). ON CERTAIN SINGULAR BOUNDARY VALUE PROBLEMS AND INTEGRAL INEQUALITIES. *E-Biblio.Univ-Mosta.Dz*. Retrieved June 6, 2023, from http://e-biblio.univ-mosta.dz/bitstream/handle/123456789/22516/Thése, GOUARI Yazid.pdf?sequence=1

18.31. Baleanu, D., Ghafarnezhad, K., Rezapour, S., & Shabibi, M. (2018). On the existence of solutions of a three steps crisis integro-differential equation. *Advances in Difference Equations*, *2018*(1). https://doi.org/10.1186/S13662-018-1583-1

18.32. Yang, J., Gimeno, J., & la Llave, R. (2021). PARAMETERIZATION METHOD FOR STATE-DEPENDENT DELAY PERTURBATION OF AN ORDINARY DIFFERENTIAL EQUATION. *SIAM JOURNAL ON MATHEMATICAL ANALYSIS*, *53*(4), 4031–4067. https://doi.org/10.1137/20M1311430

18.33. Groothedde, C., Dynamics, J. J.-J. of C., & 2017, undefined. (n.d.). Parameterization method for unstable manifolds of delay differential equations. *Aimsciences.Org*. Retrieved June 6, 2023, from https://www.aimsciences.org/article/id/c52b3493-dc73-4956-9713-38d1589eec33

18.34. Barker, B., James, J. M., & Morgan, J. (2020). Parameterization Method for Unstable Manifolds of Standing Waves on the Line. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *19*(3), 1758–1797. https://doi.org/10.1137/19M128243X

18.35. Yang, J., Gimeno, J., & de la Llave, R. (2022). Persistence and smooth dependence on parameters of periodic orbits in functional differential equations close to an ODE or an evolutionary PDE. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *338*, 76–127. https://doi.org/10.1016/j.jde.2022.07.033

18.36. Yang, J. (2021). *Persistence of Invariant Objects under Delay Perturbations*. https://smartech.gatech.edu/handle/1853/65094

18.37. Hülser, T., Köster, F., Jaurigue, L., & Lüdge, K. (2022). Role of delay-times in delay-based photonic reservoir computing. *Optical Materials Express*, *12*(3), 1214–1231. https://doi.org/10.1364/OME.451016

18.38. Lüdge, K., Jaurigue, L., Lingnau, B., … S. T.-T. E. P., & 2019, undefined. (2019). Semiconductor mode-locked laser with external feedback: emergence of multi-frequency pulse trains with an increasing number of modes. *Springer*, *92*(4). https://doi.org/10.1140/epjb/e2019-90662-4

18.39. M Sherman, G Kerr, G González-Parra, (2023) Analytic solutions of linear neutral and non-neutral delay differential equations using the Laplace transform method: higher order poles and resonance - Journal of Engineering Mathematics, https://link.springer.com/article/10.1007/s10665-023-10276-5

18.40. Shaikhet, L. (2020). Stability of Stochastic Differential Equations with Distributed and State-Dependent Delays. *Journal of Applied Mathematics and Computation*, *4*(4), 181–188. https://doi.org/10.26855/jamc.2020.12.009

18.41. Shaikhet, L. (2020). Stability of Stochastic Differential Equations with State-dependent Delays. *Researchgate.Net*. Retrieved June 6, 2023, from https://www.researchgate.net/profile/Srinivas-Thiruchinapalli/publication/369475117_Research_Highlights_in_Mathematics_and_Co
Highlights-in-Mathematics-and-Computer-Science-Vol-7.pdf#page=47

18.42. Tipo B, Keane, A., Krauskopf, B., & Dijkstra, H. A. (2019). The effect of state dependence in a delay differential equation model for the El Nino Southern Oscillation. *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, *377*(2153). https://doi.org/10.1098/rsta.2018.0121

18.43. Keane, A., Neff, A., Blaha, K., Amann, A., arXiv, P. H. preprint, & 2023, undefined. (n.d.). Transitional cluster dynamics in a model for delay-coupled chemical oscillators. *Arxiv.Org*. Retrieved June 6, 2023, from https://arxiv.org/abs/2303.05235

18.44. Church, K. E. M. (2022). Validated integration of differential equations with state-dependent delay. *COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION*, *115*. https://doi.org/10.1016/j.cnsns.2022.106762

18.45. Groothedde, C. (n.d.). VU Research Portal. *Research.vu.Nl*. Retrieved June 6, 2023, from https://research.vu.nl/files/58755325/complete dissertation.pdf

19. R. Calleja, D. del-Castillo-Negrete, D. Martínez-del-Río, and A. Olvera, **Global transport in a nonautonomous standard map**, Commun. Nonlinear Sci. Numer. Simul. 51, October 2017, Pages 198–215, pdf, preprint: ArXiv_1601.04824

Sin citas.

20. R. Calleja, A. Celletti, L. Corsi, R. de la Llave, **Response solutions for quasi-periodic forced, dissipative wave equations,** *SIAM J. Math. Anal.*, 49(4), 3161–3207 (2017), pdf, preprint: ArXiv_1501.05979

Citado por:

20.1. H Liu, B Chen, Y Gao, Response solutions for beam equations with nonlocal nonlinear damping and Liouvillean frequencies, arXiv preprint arXiv:2401.02628, 2024 ' arxiv.org

20.2. Tipo B, He, X., R. de la Llave. (2016). Construction of quasi-periodic solutions of state-dependent delay differential equations by the parameterization method II: Analytic case. *Elsevier*. Retrieved April 21, 2022, from https://www.sciencedirect.com/science/article/pii/S0022039616300584

20.3. Tipo B, de la Llave, R., & Kogelbauer, F. (2019). Global persistence of Lyapunov subcenter manifolds as spectral submanifolds under dissipative perturbations. *SIAM Journal on Applied Dynamical*

Systems, *18*(4), 2099–2142. https://doi.org/10.1137/18M1210344

20.4. N Kosovalić, Quasi-periodic self-excited travelling waves for damped beam equations. *Elsevier*. Retrieved June 6, 2023, from https://www.sciencedirect.com/science/article/pii/S0022039618302134

20.5. Chen, B., Gao, Y., & Nieto, J. J. (2022). Quasi-periodic traveling waves for a class of damped beams on rectangular tori. *Mathematical Methods in the Applied Sciences*, *45*(4), 1879–1903. https://doi.org/10.1002/MMA.7895

20.6. Chen, B, (2023), Quasi-periodic traveling waves for forced Kirchhoff equations with strong damping on flat tori. *Elsevier*. Retrieved June 6, 2023, from https://www.sciencedirect.com/science/article/pii/S0022039623002887

20.7. Chen, B., Gao, Y., Li, Y., & Yang, X. (2023). Response Solutions for Wave Equations with Variable Wave Speed and Periodic Forcing. *Journal of Dynamics and Differential Equations*, *35*(1), 811–844. https://doi.org/10.1007/S10884-021-10025-1

20.8. Tipo B, Wang, F., & de la Llave, R. (2020). RESPONSE SOLUTIONS TO QUASI-PERIODICALLY FORCED SYSTEMS, EVEN TO POSSIBLY ILL-POSED PDES, WITH STRONG DISSIPATION AND ANY FREQUENCY VECTORS. *SIAM JOURNAL ON MATHEMATICAL ANALYSIS*, *52*(4), 3149–3191. https://doi.org/10.1137/19M1272159

20.9. Tipo B, Cheng, H., de la Llave, R., & Wang, F. (2021). Response solutions to the quasi-periodically forced systems with degenerate equilibrium: a simple proof of a result of W Si and J Si and extensions. *NONLINEARITY*, *34*(1), 372–393. https://doi.org/10.1088/1361-6544/abbf33

20.10. Yu, Y., Dong, Y., & Li, X. (2022). The Existence of Almost Periodic Response Solutions for Superlinear Duffing's Equations. *Journal of Dynamics and Differential Equations*. https://doi.org/10.1007/S10884-022-10131-8

20.11. Tipo B, Xu, X., de la Llave, R., & Wang, F. (2022). The existence of solutions for nonlinear elliptic equations: Simple proofs and extensions of a paper by Y. Shi. *Journal of Differential Equations*, *318*, 20–57. https://doi.org/10.1016/j.jde.2022.02.014

20.12. Montalto, R. (2021). The Navier–Stokes Equation with Time Quasi-Periodic External Force: Existence and Stability of Quasi-Periodic Solutions. *Journal of Dynamics and Differential Equations*. https://doi.org/10.1007/s10884-021-09944-w

21. Calleja, R., Doedel, E., and García-Azpeitia, C., **Symmetry-breaking for a restricted n -body problem in the Maxwell-ring configuration**, Eur. Phys. J. Special Topics 225, 2741-2750 (2016), pdf, preprint: ArXiv_1601.06160

    Sin citas.

22. A.R. Humphries, D.A. Bernucci, R. Calleja, N. Homayounfar and M. Snarski, **Periodic Solutions of a Singularly Perturbed Delay Differential Equation With Two State-Dependent Delays,** J. Dynam. Differential Equations (2016), Volume 28, Issue 3, pp 1215-1263
    pdf, preprint: ArXiv_1411.6060

    Citado por:

22.1. Albers, T., Mueller-Bender, D., & Radons, G. (2022). Antipersistent random walks in time-delayed systems. PHYSICAL REVIEW E, 105(6). https://doi.org/10.1103/PhysRevE.105.064212

22.2. Krauskopf, B., & Sieber, J. (2023). Bifurcation Analysis of Systems With Delays: Methods and Their Use in Applications. *CISM International Centre for Mechanical Sciences, Courses and Lectures*, *604*, 195–245. https://doi.org/10.1007/978-3-031-01129-0_7

22.3. Xiao, M., Zheng, W. X., & Cao, J. (2013). Bifurcation and control in a neural network with small and large delays. Neural Networks, 44, 132–142. https://doi.org/10.1016/j.neunet.2013.03.016

22.4. He, X., & Yuan, X. (2020). Construction of quasi-periodic solutions for delayed perturbation differential equations. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *268*(12), 8026–8061. https://doi.org/10.1016/j.jde.2019.11.093

22.5. Albers, T., Mueller-Bender, D., Hille, L., & Radons, G. (2022). Chaotic Diffusion in Delay Systems: Giant Enhancement by

Time Lag Modulation. PHYSICAL REVIEW LETTERS, 128(7). https://doi.org/10.1103/PhysRevLett.128.074101

22.6. He, X., Equations, R. de la L.-J. of D., & 2016, undefined. (n.d.). Construction of quasi-periodic solutions of state-dependent delay differential equations by the parameterization method II: Analytic case. *Elsevier*. Retrieved April 21, 2022, from https://www.sciencedirect.com/science/article/pii/S0022039616300584

22.7. Pan, Y.-Y., & Wang, X.-Y. (2017). Existence of Solutions of a Class of Singular Perturbation Second-Order Delay Differential Equation. *Zhongbei Daxue Xuebao (Ziran Kexue Ban)/Journal of North University of China (Natural Science Edition)*, *38*(4), 404–408. https://doi.org/10.3969/j.issn.1673-3193.2017.04.002

22.8. Li, Z. (2023). Exploring complicated behaviors of a delay differential equation. MATHEMATICAL MODELLING AND CONTROL, 3(1), 1–6. https://doi.org/10.3934/mmc.2023001

22.9. Tipo B, Magpantay, F. M. G., & Humphries, A. R. (2017). *Generalised Lyapunov-Razumikhin techniques for scalar state-dependent delay differential equations*. https://doi.org/10.3934/dcdss.2020005

22.10. Tipo B, Humphries, A., Krauskopf, B., . . . S. R. preprint arXiv, & 2021, undefined. (2019). Interplay between instantaneous and delayed feedback with delayed state dependence. *Arxiv.Org*, *377*(2153), 4031–4067. https://doi.org/10.1098/rsta.2018.0121

22.11. Mueller-Bender, D., & Radons, G. (2023). Laminar chaos in systems with quasiperiodic delay. PHYSICAL REVIEW E, 107(1). https://doi.org/10.1103/PhysRevE.107.014205

22.12. Tipo B, Humphries, A. R., & Magpantay, F. M. G. (2021). Lyapunov-Razumikhin techniques for state-dependent delay differential equations. *Journal of Differential Equations*, *304*, 287–325. https://doi.org/10.1016/j.jde.2021.09.020

22.13. Tipo B, Humphries, A. R., Krauskopf, B., Ruschel, S., & Sieber, J. (n.d.). NONLINEAR EFFECTS OF INSTANTANEOUS AND DELAYED STATE DEPENDENCE IN A DELAYED FEEDBACK LOOP. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*. https://doi.org/10.3934/dcdsb.2022042

22.14. Tipo B, Humphries, A., Krauskopf, B., … S. R. preprint arXiv, & 2021, undefined. (2021). Nonlinear effects of instantaneous and delayed state dependence in a delayed feedback loop. *Arxiv.Org*. https://arxiv.org/abs/2110.01850

22.15. Yang, J., Gimeno, J., De La Llave SIAM MATH ANAL, R. J., De La Llave, R., & La Llave, R. DE. (2021). Parameterization method for state-dependent delay perturbation of an ordinary differential equation. *SIAM Journal on Mathematical Analysis*, *53*(4), 4031–4067. https://doi.org/10.1137/20M1311430

22.16. Xu, Z., Xu, L., Li, W., & Shi, S. (2023). Renormalization Group Method for Singular Perturbation Initial Value Problems with Delays. *Mediterranean Journal of Mathematics*, *20*(2). https://doi.org/10.1007/s00009-023-02281-w

22.17. Mueller-Bender, D., Otto, A., & Radons, G. (2019). Resonant Doppler effect in systems with variable delay. PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, 377(2153). https://doi.org/10.1098/rsta.2018.0119

22.18. Wattis, J. A. D. (2017). Shape of transition layers in a differential-delay equation. IMA JOURNAL OF APPLIED MATHEMATICS, 82(3), 681–696. https://doi.org/10.1093/imamat/hxx011

22.19. Shuo, S., Min, X., LiNa, R., WeiXing, Z., BinBin, T., ZunShui, C., & FengYu, X. (2019). Stability and bifurcation control of a neuron system under a novel fractional-order PD controller. SCIENCE CHINA-TECHNOLOGICAL SCIENCES, 62(12, SI), 2120–2129. https://doi.org/10.1007/s11431-018-9496-x

22.20. Shaikhet, L. (2020). Stability of Stochastic Differential Equations with Distributed and State-Dependent Delays. *Journal of Applied Mathematics and Computation*, *4*(4), 181–188. https://doi.org/10.26855/jamc.2020.12.009

22.21. Computer, L. S.-R. H. in M. and, & 2023, undefined. (n.d.). Stability of Stochastic Differential Equations with State-dependent Delays. *Researchgate.Net*, *7*. https://doi.org/10.9734/bpi/rhmcs/v7

22.22. Keane, A., Krauskopf, B., & Dijkstra, H. A. (2019). The effect

of state dependence in a delay differential equation model for the El Nino Southern Oscillation. *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*, *377*(2153). https://doi.org/10.1098/rsta.2018.0121

22.23. Zhang, F., & Liu, G. (2009). Unique Positive Periodic Solution for Hematopoiesis Model with Infinite Delay. In Y. Jiang & J. Li (Eds.), PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON MODELLING AND SIMULATION (ICMS2009), VOL 3 (pp. 50–54).

23. D. Martínez, D. del-Castillo-Negrete, A. Olvera, R. Calleja, **Self-consistent chaotic transport in a high-dimensional mean-field Hamiltonian map model,** Qual. Theory Dyn. Sys. (2015), Volume 14, Issue 2, pp 313-335, pdf, preprint: ArXiv_1601.00942

Citado por:

23.1. Li, J., & Cui, N. (2022). Dynamical behavior and control of a new hyperchaotic Hamiltonian system. *AIMS MATHEMATICS*, *7*(4), 5117–5132. https://doi.org/10.3934/math.2022285

23.2. Li, J., Wu, H., & Mei, F. (2018). Hyperchaos in constrained Hamiltonian system and its control. *Nonlinear Dynamics*, *94*(3), 1703–1720. https://doi.org/10.1007/s11071-018-4451-3

24. Calleja, R., Celletti, A., Falcolini, C., and de la Llave, R., **An Extension of Greene's Criterion for Conformally Symplectic Systems and a Partial Justification,** SIAM J. on Mathematical Analysis (2014), Vol. 46, No. 4, pp 2350-2384, pdf, preprint: mp_arc 13-60

Citado por:

24.1. Falcolini, C., & Tedeschini-Lalli, L., FAMILIES OF PERIODIC SINKS: THE QUASI-CONSERVATIVE CASE https://www.researchgate.net/profile/Laura-Tedeschini-Lalli/publication/322661946_FAMILIES_OF_PERIODIC_SINKS_THE_QUASI-CONSERVATIVE_CASE/links/5a67545eaca2720266b5c0e0/FAMILIES-

OF-PERIODIC-SINKS-THE-QUASI-CONSERVATIVE-CASE.pdf

24.2. Falcolini, C., & Tedeschini-Lalli, L. (2020). A numerical renormalization method for quasi-conservative periodic attractors. *Journal of Computational Dynamics*, *7*(2), 461–468. https://doi.org/10.3934/JCD.2020018

24.3. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

24.4. Falcolini, C., & Tedeschini-Lalli, L. (2018). DIVERGING PERIOD AND VANISHING DISSIPATION: FAMILIES OF PERIODIC SINKS IN THE QUASI-CONSERVATIVE CASE. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS*, *38*(12, SI), 6105–6122. https://doi.org/10.3934/dcds.2018263

24.5. Falcolini, C., & Tedeschini-Lalli, L. (2018). Diverging period and vanishing dissipation: Families of periodic sinks in the quasi-conservative case. *Discrete & Continuous Dynamical Systems - A*, *38*(12), 6105–6122. https://doi.org/10.3934/dcds.2018263

25. Calleja, R., Celletti, A., and de la Llave, R., **Local Behavior Near Quasi-Periodic Solutions of Conformally Symplectic Systems**, J. Dynam. Differential Equations 25 (2013), no. 3, 821-841, pdf preprint: mp_arc 12-16

Citado por:

25.1. Akingbade, S. W., Gidea, M., & M-Seara, T. (2023). Arnold Diffusion in a Model of Dissipative System. SIAM Journal on Applied Dynamical Systems, 22(3), 1983–2023. https://doi.org/10.1137/22M1525508

25.2. Massetti, J. E. (2023). Attractive Invariant Circles à la Chenciner. Regular and Chaotic Dynamics. https://doi.org/10.1134/S1560354723520052

25.3. Maro, S., & Sorrentino, A. (2017). Aubry-Mather Theory for Conformally Symplectic Systems. *COMMUNICA-*

TIONS IN MATHEMATICAL PHYSICS, *354*(2), 775–808. https://doi.org/10.1007/s00220-017-2900-3

25.4. Zhang, X., Cao, Z., Xie, J., Li, D., & Grebogi, C. (2021). Dynamics of Dissipative Systems with Hamiltonian Structures. *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, *31*(14). https://doi.org/10.1142/S0218127421502175

25.5. Caracciolo, C., & Locatelli, U. (2021). Elliptic tori in FPU non-linear chains with a small number of nodes. *Communications in Nonlinear Science and Numerical Simulation*, *97*. https://doi.org/10.1016/j.cnsns.2021.105759

25.6. Fleurantin, E. (2021). *Formation, Evolution, and Breakdown of Invariant Tori in Dissipative Systems: From Visualization to Computer Assisted Proofs*. https://search.proquest.com/openview/481524f189cdb3ae350664e4 origsite=gscholar&cbl=18750&diss=y

25.7. James, J. D. M. (2017). Fourier–Taylor Approximation of Unstable Manifolds for Compact Maps: Numerical Implementation and Computer-Assisted Error Bounds. *Foundations of Computational Mathematics*, *17*(6), 1467–1523. https://doi.org/10.1007/s10208-016-9325-9

25.8. Murray, M. (2021). *Homoclinic dynamics in a spatial restricted four body problem*. https://search.proquest.com/openview/6db6a2c6b779fe2ab0cfd84986630e51 origsite=gscholar&cbl=18750&diss=y

25.9. Murray, M., & James, J. D. M. (2020). Homoclinic dynamics in a spatial restricted four-body problem: blue skies into Smale horseshoes for vertical Lyapunov families. *CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY*, *132*(6–7). https://doi.org/10.1007/s10569-020-09977-1

25.10. Zhang, X., Li, D., Cao, Z., Xie, J., & Grebogi, C. (2021). Institute for Complex Systems and Mathematical Biology King's College, University of Aberdeen, Aberdeen AB24 3UE, UK Received; Revised. *Researchgate.Net*, *31*(14), 2150217. https://doi.org/10.1142/S0218127421502175

25.11. Arnaud, M., arXiv:2110.05062, J. F. preprint, & 2021, undefined. (2021). Invariant submanifolds of conformal symplectic dynamics.

Arxiv.Org. https://arxiv.org/abs/2110.05062

25.12. LOCATELLI, U., arXiv:1401.0681, L. S. preprint, & 2014, undefined. (n.d.). On a pair of methods detecting quasi-periodic solutions of some special dynamical equations including dissipative effects. Citeseer. Retrieved December 6, 2018, from http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.753.6532&rep=rep1&type=pd

25.13. Jin, L., & Yan, J. (2021). On the dynamics of contact Hamiltonian systems: I. Monotone systems. *NONLINEARITY*, *34*(5), 3314–3336. https://doi.org/10.1088/1361-6544/abe833

25.14. Locatelli, U., & Stefanelli, L. (2015). QUASI-PERIODIC MOTIONS IN A SPECIAL CLASS OF DYNAMICAL EQUATIONS WITH DISSIPATIVE EFFECTS: A PAIR OF DETECTION METHODS. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, *20*(4), 1155–1187. https://doi.org/10.3934/dcdsb.2015.20.1155

25.15. Stefanelli, L., & Locatelli, U. (2015). Quasi-periodic motions in a special class of dynamical equations with dissipative effects: A pair of detection methods. *Discrete and Continuous Dynamical Systems - Series B*, *20*(4), 1155–1187. https://doi.org/10.3934/dcdsb.2015.20.1155

25.16. Fleurantin, E., Simulation, J. J. N. S. and N., & 2020, undefined. (n.d.). Resonant tori, transport barriers, and chaos in a vector field with a Neimark–Sacker bifurcation. *Elsevier*. Retrieved April 21, 2022, from https://www.sciencedirect.com/science/article/pii/S1007570420300605

25.17. Tipo B Celletti, A., & Lhotka, C. (2014). Transient times, resonances and drifts of attractors in dissipative rotational dynamics. *Communications in Nonlinear Science and Numerical Simulation*, *19*(9), 3399–3411. https://doi.org/10.1016/j.cnsns.2014.01.013

25.18. Mireles James, J., Fleurantin, E., & Mireles James, J. (2020). Transport barriers, resonant tori, and chaos in a vector field with a Neimark-Sacker bifurcation. *Researchgate.Net*. https://doi.org/10.1016/j.cnsns.2020.105226

25.19. James, J. D. M. (2018). Validated numerics for equilibria

of analytic vector fields: Invariant manifolds and connecting orbits. In VanDenBerg, JB and Lessard, JP (Ed.), *RIGOROUS NUMERICS IN DYNAMICS* (Vol. 74, pp. 27–80). https://doi.org/10.1090/psapm/074/00642

25.20. Jin, L., Zhang, J., & Zhao, K. (2020). Variational attraction of the KAM torus for the conformally symplectic system. *Arxiv.Org*. https://arxiv.org/abs/2009.12532

26. Calleja, R., Celletti, A., and de la Llave, R., **KAM theory for conformally symplectic systems: Efficient algorithms and their validation**, J. Differential Equations 255 (2013), no. 5, 978-1049, pdf preprint: mp_arc 11-188

Citado por:

26.1. Tipo B, Alessandra Celletti, From infinite to finite time stability in Celestial Mechanics and Astrodynamics, Astrophysics and Space Science, Volume 368, article number 106, (2023).

26.2. Koch, H. (n.d.). Attracting invariant tori and analytic conjugacies. Ma.Utexas.Edu. Retrieved September 27, 2023, from https://web.ma.utexas.edu/users/koch/papers/hypertori.pdf

26.3. Akingbade, S. W., Gidea, M., & M-Seara, T. (2023). Arnold Diffusion in a Model of Dissipative System. SIAM Journal on Applied Dynamical Systems, 22(3), 1983–2023. https://doi.org/10.1137/22M1525508

26.4. R. Simile Baroni, R. Egydio de Carvalho, I. L. Caldas, R. L. Viana, and P. J. Morrison, Chaotic saddles and interior crises in a dissipative nontwist system, Phys. Rev. E 107, 024216 – Published 24 February 2023

26.5. Tipo B, Su, X., & de la Llave, R. (2017). A Continuous Family of Equilibria in Ferromagnetic Media are Ground States. *Communications in Mathematical Physics*, *354*(2), 459–475. https://doi.org/10.1007/s00220-017-2913-y

26.6. Villanueva, J. (2017). A New Approach to the Parameterization Method for Lagrangian Tori of Hamiltonian Systems. *Journal of Nonlinear Science*, *27*(2), 495–530.

https://doi.org/10.1007/s00332-016-9342-5

26.7. Massetti, J. E. (2018). A normal form à la Moser for diffeomorphisms and a generalization of Rüssmann's translated curve theorem to higher dimensions. *Analysis & PDE*, *11*(1), 149–170. https://doi.org/10.2140/apde.2018.11.149

26.8. Villanueva, J. (2018). A Parameterization Method for Lagrangian Tori of Exact Symplectic Maps of R-2r. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *17*(3), 2289–2331. https://doi.org/10.1137/18M1168789

26.9. Tipo B, A., Bustamante, De la Llave, R., (2023). *A simple proof of Gevrey estimates for expansions of quasi-periodic orbits: dissipative models and lower dimensional tori*. http://arxiv.org/abs/2303.17291

26.10. Gonzalez, J. (2020). *Accurate High Order Computation of Invariant Manifolds for Long Periodic Orbits of Maps and Equilibrium States of PDE*. https://search.proquest.com/openview/b6ac672e86e1c57fc1e4e63295a4dc0 origsite=gscholar&cbl=18750&diss=y

26.11. Zhang, L. (2017). *Analysis and numerical methods in solid state physics and chemistry*. https://smartech.gatech.edu/handle/1853/58675

26.12. Haro, A., & Luque, A. (2019). A-posteriori KAM theory with optimal estimates for partially integrable systems. *Journal of Differential Equations*, *266*(2–3), 1605–1674. https://doi.org/10.1016/j.jde.2018.08.003

26.13. Akingbade, S. W., Gidea, M., & M-Seara, T. (2023). Arnold Diffusion in a Model of Dissipative System. SIAM Journal on Applied Dynamical Systems, 22(3), 1983–2023. https://doi.org/10.1137/22M1525508

26.14. Maro, S., & Sorrentino, A. (2017). Aubry-Mather Theory for Conformally Symplectic Systems. *COMMUNICATIONS IN MATHEMATICAL PHYSICS*, *354*(2), 775–808. https://doi.org/10.1007/s00220-017-2900-3

26.15. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D

AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. *Mat.Uniroma2.It.* Retrieved June 7, 2023, from http://www.mat.uniroma2.it/celletti/BCL_2023.pdf

26.16. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (2022). *Breakdown of rotational tori in 2D and 4D conservative and dissipative standard maps.* http://arxiv.org/abs/2212.13960

26.17. Simile Baroni, R., De Carvalho, R. E., Caldas, I. L., Viana, R. L., & Morrison, P. J. (2023). Chaotic saddles and interior crises in a dissipative nontwist system. *Physical Review E*, *107*(2). https://doi.org/10.1103/PhysRevE.107.024216

26.18. Canadell, M., & Haro, A. (2017). Computation of Quasiperiodic Normally Hyperbolic Invariant Tori: Rigorous Results. *JOURNAL OF NONLINEAR SCIENCE*, *27*(6), 1869–1904. https://doi.org/10.1007/s00332-017-9389-y

26.19. Jorba, À. (n.d.). Computational methods in perturbation theory. *Wai.Maia.Ub.Es.* Retrieved April 21, 2022, from https://wai.maia.ub.es/dsg/2021/2107jorba.pdf

26.20. Tipo B, Yao, Y., & De La Llave, R. (2021). *Computing the Invariant Circle and its Stable Manifolds for a 2-D Map by the Parameterization Method: Effective Algorithms and Rigorous Proofs of Convergence.* http://arxiv.org/abs/2110.15882

26.21. Tipo B, de la Llave, R., & Mireles James, J. D. (2016). Connecting Orbits for Compact Infinite Dimensional Maps: Computer Assisted Proofs of Existence. *SIAM Journal on Applied Dynamical Systems*, *15*(2), 1268–1323. https://doi.org/10.1137/15M1053608

26.22. Wang, K., Miao, X.-Q., Wang, Y.-N., & Qin, W.-X. (2018). Continuity of depinning force. *ADVANCES IN MATHEMATICS*, *335*, 276–306. https://doi.org/10.1016/j.aim.2018.07.014

26.23. Wang, Y.-N., Yan, J., & Zhang, J. (2021). Convergence of Viscosity Solutions of Generalized Contact Hamilton-Jacobi Equations. *ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS*, *241*(2), 885–902. https://doi.org/10.1007/s00205-021-01667-y

26.24. Bustamante, A. P. (2021). *Domains of analyticity and*

Gevrey estimates of tori in weakly dissipative systems. https://smartech.gatech.edu/handle/1853/66079

26.25. Zhang, X., Cao, Z., Xie, J., Li, D., & Grebogi, C. (2021). Dynamics of Dissipative Systems with Hamiltonian Structures. *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, *31*(14). https://doi.org/10.1142/S0218127421502175

26.26. Figueras, J. L., Haro, A., & Luque, A. (2020). Effective bounds for the measure of rotations. *Nonlinearity*, *33*(2), 700–741. https://doi.org/10.1088/1361-6544/ab500d

26.27. Cuneo, N., Eckmann, J.-P., & Wayne, C. E. (2017). Energy dissipation in Hamiltonian chains of rotators. *Nonlinearity*, *30*(11), R81–R117. https://doi.org/10.1088/1361-6544/aa85d6

26.28. Bauer, S., & Petrov, N. P. (2020). Existence of kam tori for presymplectic vector fields. *Electronic Journal of Differential Equations*, *2020*, 1–26. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098861085&partnerID=40&md5=5f25d36c8e906b96f7814805dd562b10

26.29. Casal, A., Corsi, L., & de la Llave, R. (2020). Expansions in the delay of quasi-periodic solutions for state dependent delay equations{*}. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, *53*(23). https://doi.org/10.1088/1751-8121/ab7b9e

26.30. Yao, Y. (2021). *Fast Algorithm for Invariant Circle and their Stable Manifolds: Rigorous Results and Efficient Implementations.* https://smartech.gatech.edu/handle/1853/65032

26.31. Gonzalez, J., James, J. D. M., & Tuncer, N. (2022). Finite element approximation of invariant manifolds by the parameterization method. *Partial Differential Equations and Applications*, *3*(6). https://doi.org/10.1007/S42985-022-00214-Y

26.32. Margheri, A., Ortega, R., & Rebelo, C. (2017). First integrals for the Kepler problem with linear drag. *Celestial Mechanics and Dynamical Astronomy*, *127*(1), 35–48. https://doi.org/10.1007/s10569-016-9715-y

26.33. Haro, A., & Mondelo, J. M. (2021). Flow map parameterization methods for invariant tori in Hamiltonian systems. *Communications in Nonlinear Science and Numerical Simulation*, *101*. https://doi.org/10.1016/j.cnsns.2021.105859

26.34. A. Fernandez, A. Haro, & J.M. Mondelo, (2022). *Flow map parameterization methods for invariant tori in quasi-periodic Hamiltonian systems*. http://arxiv.org/abs/2212.00412

26.35. Fleurantin, E. (2021). *Formation, Evolution, and Breakdown of Invariant Tori in Dissipative Systems: From Visualization to Computer Assisted Proofs*. https://search.proquest.com/openview/481524f189cdb3ae350664e4 origsite=gscholar&cbl=18750&diss=y

26.36. James, J. D. M. (2017). Fourier–Taylor Approximation of Unstable Manifolds for Compact Maps: Numerical Implementation and Computer-Assisted Error Bounds. *Foundations of Computational Mathematics*, *17*(6), 1467–1523. https://doi.org/10.1007/s10208-016-9325-9

26.37. Capinski, M. J., & Zgliczynski, P. (2015). Geometric proof for normally hyperbolic invariant manifolds. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *259*(11), 6215–6286. https://doi.org/10.1016/j.jde.2015.07.020

26.38. Tipo B, Bustamante, A. P., & la Llave, R. (2022). Gevrey estimates for asymptotic expansions of Tori in weakly dissipative systems{*}. *NONLINEARITY*, *35*(5), 2424–2473. https://doi.org/10.1088/1361-6544/ac5cd5

26.39. Esen, O., de Leon, M., Sardon, C., & Zajsc, M. (2021). Hamilton-Jacobi formalism on locally conformally symplectic manifolds. *JOURNAL OF MATHEMATICAL PHYSICS*, *62*(3). https://doi.org/10.1063/5.0021790

26.40. Sevryuk, M. B. (2017). Herman's approach to quasi-periodic perturbations in the reversible KAM context 2. *Moscow Mathematical Journal*, *17*(4), 803–823. https://doi.org/10.17323/1609-4514-2017-17-4-803-823

26.41. Murray, M. (2021). *Homoclinic dynamics in a spatial restricted four body problem*. https://search.proquest.com/openview/6db6a2c6b779fe2ab0cfd84986630e51 origsite=gscholar&cbl=18750&diss=y

26.42. Murray, M., & James, J. D. M. (2020). Homoclinic dynamics in a spatial restricted four-body problem: blue skies into Smale horseshoes for vertical Lyapunov families. *CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY*, *132*(6–7). https://doi.org/10.1007/s10569-020-09977-1

26.43. Timsina, A. (2022). *Identifiability Analysis and Optimal Control of Infectious Diseases Epidemics and Parameterization Method for (Un) Stable Manifolds of Implicitly Defined*. https://search.proquest.com/openview/569aa695b682c1de06e122b4936512ab/1?pq-origsite=gscholar&cbl=18750&diss=y

26.44. Zhang, X., Li, D., Cao, Z., Xie, J., & Grebogi, C. (2021). Institute for Complex Systems and Mathematical Biology King's College, University of Aberdeen, Aberdeen AB24 3UE, UK Received; Revised. *Researchgate.Net*, *31*(14), 2150217. https://doi.org/10.1142/S0218127421502175

26.45. Féjoz, J. (2017). Introduction to KAM theory with a view to celestial mechanics. In *Variational Methods: In Imaging and Geometric Control*. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140662133&partnerID=40&md5=9d432c178c819a60f8a53e56cdeb8221

26.46. Granados, A. (2017). Invariant manifolds and the parameterization method in coupled energy harvesting piezoelectric oscillators. *Physica D: Nonlinear Phenomena*, *351–352*, 14–29. https://doi.org/10.1016/j.physd.2017.04.003

26.47. Celletti, A., Pucacco, G., & Stella, D. (2015). Lissajous and Halo Orbits in the Restricted Three-Body Problem. *JOURNAL OF NONLINEAR SCIENCE*, *25*(2), 343–370. https://doi.org/10.1007/s00332-015-9232-2

26.48. Celletti, A., Paita, F., & Pucacco, G. (2017). Mechanics: Twist and non-twist regimes of the oblate planet problem. *Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche e Naturali, Rendiconti Lincei Matematica e Applicazioni*, *28*(3), 535–552. https://doi.org/10.4171/RLM/775

26.49. Tipo B, Celletti, A., & Lhotka, C. (2012). Normal form construction for nearly-integrable systems with dissipation. *Regular and Chaotic Dynamics*, *17*(3–4), 273–292. https://doi.org/10.1134/S1560354712030057

26.50. Gimeno, J., Jorba, A., Jorba-Cusco, M., Miguel, N., & Zou, M. (2023). Numerical integration of high-order variational equations of ODEs. *APPLIED MATHEMATICS AND COMPUTATION*, *442*. https://doi.org/10.1016/j.amc.2022.127743

26.51. Jin, L., & Yan, J. (2021). On the dynamics of contact Hamiltonian systems: I. Monotone systems. *NONLINEARITY*, *34*(5), 3314–3336. https://doi.org/10.1088/1361-6544/abe833

26.52. Canadell, M., & Haro, A. (2014). Parameterization Method for Computing Quasi-periodic Reducible Normally Hyperbolic Invariant Tori. In Casas, F and Martinez, V (Ed.), *ADVANCES IN DIFFERENTIAL EQUATIONS AND APPLICATIONS* (Vol. 4, pp. 85–94). https://doi.org/10.1007/978-3-319-06953-1_9

26.53. Haro, A., Canadell, M., Figueras, J. L., Luque, A., & Mondelo, J. M. (2016). Parameterization Method for Invariant Manifolds: From Rigorous Results to Effective Computations. In *PARAMETERIZATION METHOD FOR INVARIANT MANIFOLDS: FROM RIGOROUS RESULTS TO EFFECTIVE COMPUTATIONS* (Vol. 195, pp. 1–267). https://doi.org/10.1007/978-3-319-29662-3

26.54. Groothedde, C. M., & James, J. D. M. (2017). Parameterization method for unstable manifolds of delay differential equations. *Journal of Computational Dynamics*, *4*(1), 2–2. https://doi.org/10.3934/jcd.2017002

26.55. Barker, B., James, J. M., & Morgan, J. (2020). Parameterization method for unstable manifolds of standing waves on the line. *SIAM Journal on Applied Dynamical Systems*, *19*(3), 1758–1797. https://doi.org/10.1137/19M128243X

26.56. Castelli, R., Lessard, J.-P., & Mireles James, J. D. (2015). Parameterization of Invariant Manifolds for Periodic Orbits I: Efficient Numerics via the Floquet Normal Form. *SIAM Journal on Applied Dynamical Systems*, *14*(1), 132–167. https://doi.org/10.1137/140960207

26.57. Timsina, A. N., & James, J. D. M. (2022). Parameterized stable/unstable manifolds for periodic solutions of implicitly defined dynamical systems? *CHAOS SOLITONS \& FRACTALS*, *161*. https://doi.org/10.1016/j.chaos.2022.112345

26.58. Wang, Y.-N., Yan, J., & Zhang, J. (2023). Parameterized Viscosity Solutions of Convex Hamiltonian Systems with Time Periodic Damping. JOURNAL OF DYNAMICAL AND CONTROL SYSTEMS. https://doi.org/10.1007/s10883-023-09654-0

26.59. Danesi, V. (2021). *Periodic and quasi-periodic orbits in nearly integrable Hamiltonian systems*. https://air.unimi.it/handle/2434/814594

26.60. Locatelli, U., & Stefanelli, L. (2015). QUASI-PERIODIC MOTIONS IN A SPECIAL CLASS OF DYNAMICAL EQUATIONS WITH DISSIPATIVE EFFECTS: A PAIR OF DETECTION METHODS. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, *20*(4), 1155–1187. https://doi.org/10.3934/dcdsb.2015.20.1155

26.61. Kumar, B., Anderson, R. L., & de la Llave, R. (2021). RAPID AND ACCURATE COMPUTATION OF INVARIANT TORI, MANIFOLDS, AND CONNECTIONS NEAR MEAN MOTION RESONANCES IN PERIODICALLY PERTURBED PLANAR CIRCULAR RESTRICTED 3-BODY PROBLEM MODELS. *Advances in the Astronautical Sciences*, *175*, 3579–3598. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126239000&partnerID=40&md5=74a328d55351c85e60e415f1a661a6b3

26.62. Tipo B, Celletti, A., & Gachet, F. (2016). Regular and Chaotic Motions in Dynamical Systems with Applications to Asteroid and Debris Dynamics. In *Asteroid and Space Debris Manipulation: Advances from the Stardust Research Network* (pp. 123–150). https://doi.org/10.2514/5.9781624103247.0123.0150

26.63. Tipo B, de la Llave, R., Su, X., & Zhang, L. (2017). Resonant Equilibrium Configurations in Quasi-Periodic Media: KAM Theory. *SIAM Journal on Mathematical Analysis*, *49*(1), 597–625. https://doi.org/10.1137/15M1048598

26.64. Fleurantin, E., & James, J. D. M. (2020). Resonant tori, transport barriers, and chaos in a vector field with a

Neimark?Sacker bifurcation? *COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION*, *85*. https://doi.org/10.1016/j.cnsns.2020.105226

26.65. Figueras, J.-L., Haro, A., & Luque, A. (2017). Rigorous Computer-Assisted Application of KAM Theory: A Modern Approach. *Foundations of Computational Mathematics*, *17*(5), 1123–1193. https://doi.org/10.1007/s10208-016-9339-3

26.66. Jin, L., Zhang, J., arXiv:2007.10687, K. Z. preprint, & 2020, undefined. (2020). Smooth subsolutions of the discounted Hamilton-Jacobi equations. *Arxiv.Org*. https://arxiv.org/abs/2007.10687

26.67. Tipo B, Celletti, A. (2012). Some Aspects of Conservative and Dissipative KAM Theorems. *Milan Journal of Mathematics*, *80*(1), 25–46. https://doi.org/10.1007/s00032-012-0176-9

26.68. Tipo B, Misquero, M., Celletti Università degli Studi di Roma, A., Vergata, T., & Ortega, R. (2020). *Some dissipative problems in celestial mechanics*. http://www.ugr.es/~ecuadif/files/thesisMisquero.pdf

26.69. Cenedese, M., & Haller, G. (2020). Stability of forced-damped response in mechanical systems from a Melnikov analysis. *CHAOS*, *30*(8). https://doi.org/10.1063/5.0012480

26.70. Lhotka, C., & Celletti, A. (2013). STABILITY OF NEARLY-INTEGRABLE SYSTEMS WITH DISSIPATION. *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, *23*(2). https://doi.org/10.1142/S0218127413500363

26.71. García-Naranjo, L., arXiv:2008.07222, M. V. preprint, & 2020, undefined. (n.d.). Structure preserving discretization of time-reparametrized Hamiltonian systems with application to nonholonomic mechanics. *Arxiv.Org*. Retrieved April 21, 2022, from https://arxiv.org/abs/2008.07222

26.72. García-Naranjo, L. C., & Vermeeren, M. (2021). STRUCTURE PRESERVING DISCRETIZATION OF TIME-REPARAMETRIZED HAMILTONIAN SYSTEMS WITH APPLICATION TO NONHOLONOMIC MECHANICS. *Journal of Computational Dynamics*, *8*(3), 241–271. https://doi.org/10.3934/jcd.2021011

26.73. Misquero, M. (2021). The spin-spin model and the capture into the double synchronous resonance. *NONLINEARITY*, *34*(4), 2191–2219. https://doi.org/10.1088/1361-6544/abc4d8

26.74. Ragnisco, O., Sardon, C., arXiv:2104.02636, M. Z. preprint, & 2021, undefined. (2021). Time-dependent Hamiltonian mechanics on a locally conformal symplectic manifold. *Arxiv.Org*. https://arxiv.org/abs/2104.02636

26.75. Tipo B, Celletti, A., & Lhotka, C. (2014). Transient times, resonances and drifts of attractors in dissipative rotational dynamics. *Communications in Nonlinear Science and Numerical Simulation*, *19*(9), 3399–3411. https://doi.org/10.1016/j.cnsns.2014.01.013

26.76. Mireles James, J., Fleurantin, E., & Mireles James, J. (2020). Transport barriers, resonant tori, and chaos in a vector field with a Neimark-Sacker bifurcation. *Researchgate.Net*. https://doi.org/10.1016/j.cnsns.2020.105226

26.77. Tipo B, Celletti, A., Paita, F., & Pucacco, G. (2017). Twist and non-twist regimes of the oblate planet problem. *RENDICONTI LINCEI-MATEMATICA E APPLICAZIONI*, *28*(3), 535–552. https://doi.org/10.4171/RLM/775

26.78. James, J. D. M. (2018). Validated numerics for equilibria of analytic vector fields: Invariant manifolds and connecting orbits. In VanDenBerg, JB and Lessard, JP (Ed.), *RIGOROUS NUMERICS IN DYNAMICS* (Vol. 74, pp. 27–80). https://doi.org/10.1090/psapm/074/00642

26.79. Jin, L., Zhang, J., arXiv:2009.12532, K. Z. preprint, & 2020, undefined. (n.d.). Variational attraction of the KAM torus for the conformally symplectic system. *Arxiv.Org*. Retrieved April 21, 2022, from https://arxiv.org/abs/2009.12532

26.80. Groothedde, C. (n.d.). VU Research Portal. *Research.vu.Nl*. Retrieved April 21, 2022, from https://research.vu.nl/files/58755325/complete dissertation.pdf

26.81. de la Llave, R., & Xu, L. (2021). Whiskered Tori for Presymplectic Dynamical Systems. *Journal of Dynamics and Differential Equations*, *33*(1). https://doi.org/10.1007/s10884-020-09823-w

27. Calleja, R., Celletti, A., and de la Llave, R., **Construction of response functions in forced strongly dissipative systems**, DCDS-A, Vol. 33 (2013), No. 10, p. 4411-4433, pdf preprint: mp_arc 12-79

Citado por:

27.1. H Liu, B Chen, Y Gao, Response solutions for beam equations with nonlocal nonlinear damping and Liouvillean frequencies, - arXiv preprint arXiv:2401.02628, 2024 - arxiv.org

27.2. Giraldo, A., Krauskopf, B., & Osinga, H. M. (2018). Cascades of Global Bifurcations and Chaos near a Homoclinic Flip Bifurcation: A Case Study. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *17*(4), 2784–2829. https://doi.org/10.1137/17M1149675

27.3. Giraldo, A., Broderick, N. G. R., & Krauskopf, B. (n.d.). CHAOTIC SWITCHING IN DRIVEN-DISSIPATIVE BOSE-HUBBARD DIMERS: WHEN A FLIP BIFURCATION MEETS A T-POINT IN R. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*. https://doi.org/10.3934/dcdsb.2021217

27.4. Tiwary, R. D., & Kushvah, B. S. (2015). Computation of halo orbits in the photogravitational Sun-Earth system with oblateness. *Astrophysics and Space Science*, *357*(1), 73. https://doi.org/10.1007/s10509-015-2243-5

27.5. Bonasera, S., & Bosanac, N. (2023). Computing Natural Transitions Between Tori Near Resonances in the Earth-Moon System. *JOURNAL OF GUIDANCE CONTROL AND DYNAMICS*. https://doi.org/10.2514/1.G006941

27.6. Si, W., & Si, J. (2017). Construction of response solutions for two classes of quasi-periodically forced four-dimensional nonlinear systems with degenerate equilibrium point under small perturbations. *Journal of Differential Equations*, *262*(9), 4771–4822. https://doi.org/10.1016/j.jde.2016.12.019

27.7. Corsi, L., Feola, R., & Gentile, G. (2014). Convergent series for quasi-periodically forced strongly dissipative systems. *Communications in Contemporary Mathematics*, *16*(3). https://doi.org/10.1142/S0219199713500223

27.8. Corsi, L., Feola, R., & Gentile, G. (2013). Domains of analyticity for response solutions in strongly dissipative forced systems. *JOURNAL OF MATHEMATICAL PHYSICS*, *54*(12). https://doi.org/10.1063/1.4836777

27.9. Verrier, P., Waters, T., & Sieber, J. (2014). Evolution of the (Formula presented). halo family in the radial solar sail circular restricted three-body problem. *Celestial Mechanics and Dynamical Astronomy*, *120*(4), 373–400. https://doi.org/10.1007/s10569-014-9575-2

27.10. Gentile, G., Mazzoccoli, A., & Vaia, F. (2019). Forced quasi-periodic oscillations in strongly dissipative systems of any finite dimension. *Communications in Contemporary Mathematics*, *21*(7), 1350022. https://doi.org/10.1142/S0219199718500645

27.11. Pal, A. K., & Kushvah, B. S. (2015). Geometry of halo and Lissajous orbits in the circular restricted three-body problem with drag forces. *Monthly Notices of the Royal Astronomical Society*, *446*(1), 959–972. https://doi.org/10.1093/mnras/stu2100

27.12. Tipo B de la Llave, R., & Kogelbauer, F. (2019). Global Persistence of Lyapunov Suhcenter Manifolds as Spectral Submanifolds under Dissipative Pertarpadons. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *18*(4), 2099–2142. https://doi.org/10.1137/18M1210344

27.13. Dankowicz, H., … Y. W.-J. of, & 2020, undefined. (n.d.). Multidimensional manifold continuation for adaptive boundary-value problems. *Asmedigitalcollection.Asme.Org*. Retrieved April 22, 2022, from https://asmedigitalcollection.asme.org/computationalnonlinear/article-abstract/15/5/051002/1075023

27.14. Zotos, E. E., Papadakis, K. E., Suraj, M. S., Mittal, A., & Aggarwal, R. (2019). Networks of periodic orbits in the circular restricted three-body problem with first order post-Newtonian terms. *MECCANICA*, *54*(15), 2339–2365. https://doi.org/10.1007/s11012-019-01095-z

27.15. Burgos-Garcia, J., & Delgado, J. (2013). On the "blue sky catastrophe{''} termination in the restricted four-body problem. *CE-*

LESTIAL MECHANICS & DYNAMICAL ASTRONOMY, *117*(2), 113–136. https://doi.org/10.1007/s10569-013-9498-3

27.16. Castelli, R., Lessard, J., Applied, J. M. J.-S. J. on, & 2015, undefined. (n.d.). Parameterization of invariant manifolds for periodic orbits I: Efficient numerics via the Floquet normal form. *SIAM*. Retrieved December 6, 2018, from https://epubs.siam.org/doi/abs/10.1137/140960207

27.17. Romanov, V. A., & Doedel, E. J. (2014). Periodic Orbits Associated with the Libration Points of the Massive Rotating Straight Segment. *International Journal of Bifurcation and Chaos*, *24*(04), 1430012. https://doi.org/10.1142/S0218127414300122

27.18. Verrier, P. E., & McInnes, C. R. (2014). Periodic orbits for three and four co-orbital bodies. *Monthly Notices of the Royal Astronomical Society*, *442*(4), 3179–3191. https://doi.org/10.1093/mnras/stu1056

27.19. Chen, B. (2023). Quasi-periodic traveling waves for forced Kirchhoff equations with strong damping on flat tori. *Journal of Differential Equations*, *365*, 465–485. https://doi.org/10.1016/j.jde.2023.04.023

27.20. Fleurantin, E., Simulation, J. J. N. S. and N., & 2020, undefined. (n.d.). Resonant tori, transport barriers, and chaos in a vector field with a Neimark–Sacker bifurcation. *Elsevier*. Retrieved April 21, 2022, from https://www.sciencedirect.com/science/article/pii/S1007570420300605

27.21. Si, W., & Si, J. (2018). Response solutions and quasi-periodic degenerate bifurcations for quasi-periodically forced systems. *NONLINEARITY*, *31*(6), 2361–2418. https://doi.org/10.1088/1361-6544/aaa7b9

27.22. Gentile, G., & Vaia, F. (2017). Response solutions for forced systems with large dissipation and arbitrary frequency vectors. *Journal of Mathematical Physics*, *58*(2), 022703. https://doi.org/10.1063/1.4976500

27.23. VAIA, F. (2020). *Response solutions for quasi-periodically forced systems with arbitrary nonlinearities and frequencies in the presence of strong dissipation*. https://arcadia.sba.uniroma3.it/handle/2307/40833

27.24. Gentile, G., Equations, F. V.-J. of D., & 2021, undefined. (n.d.). Response solutions for strongly dissipative quasi-periodically forced systems with arbitrary nonlinearities and frequencies. *Elsevier*. Retrieved June 7, 2023, from https://www.sciencedirect.com/science/article/pii/S002203962100098X

27.25. Chen, B., Gao, Y., Li, Y., & Yang, X. (n.d.). Response Solutions for Wave Wquations with Variable Wave Speed and Periodic Forcing. *JOURNAL OF DYNAMICS AND DIFFERENTIAL EQUATIONS*. https://doi.org/10.1007/s10884-021-10025-1

27.26. Wang, F., & de la Llave, R. (2020). Response solutions to quasi-periodically forced systems, even to possibly ill-posed pdes, with strong dissipation and any frequency vectors. *SIAM Journal on Mathematical Analysis*, *52*(4), 3149–3191. https://doi.org/10.1137/19M1272159

27.27. Cheng, H., de la Llave, R., & Wang, F. (2021). Response solutions to the quasi-periodically forced systems with degenerate equilibrium: a simple proof of a result of W Si and J Si and extensions. *NONLINEARITY*, *34*(1), 372–393. https://doi.org/10.1088/1361-6544/abbf33

27.28. Giraldo, A., Krauskopf, B., Dynamical, H. O.-S. J. on A., & 2017, undefined. (n.d.). Saddle invariant objects and their global manifolds in a neighborhood of a homoclinic flip bifurcation of case B. *SIAM*. Retrieved December 6, 2018, from https://epubs.siam.org/doi/abs/10.1137/16M1097419

27.29. Burgos-Garcia, J., Lessard, J.-P., & James, J. D. M. (2019). Spatial periodic orbits in the equilateral circular restricted four-body problem: computer-assisted proofs of existence. *CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY*, *131*(1). https://doi.org/10.1007/s10569-018-9879-8

27.30. Zhang, X. (2017). The existence of response solution for strongly dissipative nonlinear differential equations. *2017 6th Data Driven Control and Learning Systems (DDCLS)*, 312–317. https://doi.org/10.1109/DDCLS.2017.8068089

27.31. Tipo B, Xu, X., de la Llave, R., & Wang, F. (2022). The existence

of solutions for nonlinear elliptic equations: Simple proofs and extensions of a paper by Y. Shi. *Journal of Differential Equations*, *318*, 20–57. https://doi.org/10.1016/j.jde.2022.02.014

28. Calleja, R., Doedel, E. J., Humphries, A. R., Lemus-Rodriguez, A., and Oldeman, B. E., **Boundary-value problem formulations for computing invariant manifolds and connecting orbits in the circular restricted three body problem**, Celestial Mechanics and Dynamical Astronomy, Volume 114 (2012), Issue 1-2, pp 77-106
pdf, preprint: ArXiv 1111.0032

Citado por:

28.1. C Du, OL Starinova, AY Demina, Methodology of Optimal Control of Low-Thrust Spacecraft Transfer Between Halo Orbits Around the Earth-Moon L2 Libration Point, Gyroscopy and Navigation, 2023 - Springer

28.2. D Jain, Transfer trajectory design strategies informed by quasi-periodic orbits, - 2023 - hammer.purdue.edu

28.3. DB Henry, DJ Scheeres, Fully numerical computation of heteroclinic connection families in the spatial three-body problem, Communications in Nonlinear Science and Numerical Simulation, Volume 130, March 2024, 107780

28.4. D Owen, N Baresi, DETECTING HETEROCLINIC CONNECTIONS BETWEEN QUASI-PERIODIC INVARIANT TORI USING KNOT THEORY,AAS/AIAA Space Flight Mechanics Meeting, - openresearch.surrey.ac.uk

28.5. B McCarthy, K Howell, Construction of Heteroclinic Connections Between Quasi-Periodic Orbits in the Three-Body Problem, The Journal of the Astronautical Sciences, 2023 - Springer

28.6. Henry, D., Henry, D. B., & Scheeres, D. J. (2022). A Survey of Heteroclinic Connections in the Earth-Moon System. *Researchgate.Net*. https://www.researchgate.net/profile/Damennick-Henry/publication/364758332_A_Survey_of_Heteroclinic_Connections_in_the_Earth-Moon_System/links/63b5bc79097c7832ca8d543d/A-Survey-of-Heteroclinic-Connections-in-the-Earth-Moon-System.pdf

28.7. Manuel, J., García, M., Vázquez, R., & Director, V. (2018). *AUTO-based numerical study of three body problem orbits and trajectories with applications to the Lunar Deep Space Gateway.* https://idus.us.es/handle/11441/85479

28.8. Fotsch, E. (2016). *Bifurcation analysis near the cessation of complete chatter and Shilnikov homoclinic trajectories in a pressure relief valve model.* https://www.ideals.illinois.edu/handle/2142/90709

28.9. Giraldo, A., Krauskopf, B., & Osinga, H. M. (2018). Cascades of Global Bifurcations and Chaos near a Homoclinic Flip Bifurcation: A Case Study. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *17*(4), 2784–2829. https://doi.org/10.1137/17M1149675

28.10. Giraldo, A., Broderick, N., arXiv:2105.04694, B. K. preprint, & 2021, undefined. (2021). Chaotic switching in driven-dissipative Bose-Hubbard dimers: when a flip bifurcation meets a T-point in. *Arxiv.Org.* https://arxiv.org/abs/2105.04694

28.11. Giraldo, A., Broderick, N. G. R., & Krauskopf, B. (n.d.). CHAOTIC SWITCHING IN DRIVEN-DISSIPATIVE BOSE-HUBBARD DIMERS: WHEN A FLIP BIFURCATION MEETS A T-POINT IN R. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B.* https://doi.org/10.3934/dcdsb.2021217

28.12. Tiwary, R. D., & Kushvah, B. S. (2015). Computation of halo orbits in the photogravitational Sun-Earth system with oblateness. *Astrophysics and Space Science*, *357*(1), 73. https://doi.org/10.1007/s10509-015-2243-5

28.13. Olikara, Z. P. (2016). *COMPUTATION OF QUASI-PERIODIC TORI AND HETEROCLINIC CONNECTIONS IN ASTRODYNAMICS USING COLLOCATION TECHNIQUES by Zubin P . Olikara B . S ., Purdue University , 2007 M . S ., Purdue University , 2010 A thesis submitted to the Faculty of the Graduate School.* 1–113. https://search.proquest.com/openview/dea27b1b1a560902605b90b488fbce76/1?pq-origsite=gscholar&cbl=18750

28.14. Capiński, M. J., Kepley, S., & Mireles James, J. D. (2023). Computer assisted proofs for transverse collision and near collision orbits in the restricted three body problem. *Journal of Differential Equations*, *366*, 132–191. https://doi.org/10.1016/j.jde.2023.03.053

28.15. Bonasera, S., & Bosanac, N. (2023). Computing Natural Transitions Between Tori Near Resonances in the Earth-Moon System. *JOURNAL OF GUIDANCE CONTROL AND DYNAMICS*. https://doi.org/10.2514/1.G006941

28.16. Hetebrij, W., arXiv:2007.12531, J. J. preprint, & 2020, undefined. (n.d.). Critical homoclinics in a restricted four body problem. *Academia.Edu*. Retrieved June 7, 2023, from https://www.academia.edu/download/91084321/2007.12531.pdf

28.17. Hetebrij, W., & Mireles James, J. D. (2021). Critical homoclinics in a restricted four-body problem: numerical continuation and center manifold computations. *Celestial Mechanics and Dynamical Astronomy*, *133*(2). https://doi.org/10.1007/s10569-021-10002-2

28.18. Verrier, P., Waters, T., & Sieber, J. (2014). Evolution of the (Formula presented). halo family in the radial solar sail circular restricted three-body problem. *Celestial Mechanics and Dynamical Astronomy*, *120*(4), 373–400. https://doi.org/10.1007/s10569-014-9575-2

28.19. Verrier, P., Waters, T., & Sieber, J. (2014). Evolution of the halo family in the radial solar sail circular restricted three-body problem. *CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY*, *120*(4), 373–400. https://doi.org/10.1007/s10569-014-9575-2

28.20. Verrier, P., Waters, T., & Sieber, J. (2014). Families of Periodic Orbits for Solar Sails in the CRBTP. *Advances in Solar Sailing*, 871–884. https://doi.org/10.1007/978-3-642-34907-2_52

28.21. Fleurantin, E. (2021). *Formation, Evolution, and Breakdown of Invariant Tori in Dissipative Systems: From Visualization to Computer Assisted Proofs*. https://search.proquest.com/openview/481524f189cdb3ae350664e4 origsite=gscholar&cbl=18750&diss=y

28.22. Pal, A. K., & Kushvah, B. S. (2015). Geometry of halo and Lissajous orbits in the circular restricted three-body problem with drag forces. *Monthly Notices of the Royal Astronomical Society*, *446*(1), 959–972. https://doi.org/10.1093/mnras/stu2100

28.23. Sotirofski, K., Sokoli, L., Tartari, A., Mukli, L., Sota, J., Metalla, O., Csaba, D., Nisanci, E., Albiac, J., Roland, S., Bonneau, M., Scalera, F., Meçe, D., Sana, M., Halili, A., Golemi, E., & Enver Bytyçi, A. (2018). INVESTIGATION OF MANIFOLDS IN THE CR3BP. *Uamd.Edu.Al*, *5*(3). https://www.uamd.edu.al/wp-content/uploads/2017/11/Revista-Durres-nr.3.pdf#page=13

28.24. M. G. Shirobokov (n.d.). Libration point orbits and manifolds: Design and station-keeping. *Mathnet.Ru*. Retrieved April 22, 2022, from http://www.mathnet.ru/eng/ipmp1942

28.25. Dankowicz, H., Wang, Y., Schilder, F., & Henderson, M. E. (2020). Multidimensional Manifold Continuation for Adaptive Boundary-Value Problems. *JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS*, *15*(5). https://doi.org/10.1115/1.4046498

28.26. Zotos, E. E., Papadakis, K. E., Suraj, M. S., Mittal, A., & Aggarwal, R. (2019). Networks of periodic orbits in the circular restricted three-body problem with first order post-Newtonian terms. *MECCANICA*, *54*(15), 2339–2365. https://doi.org/10.1007/s11012-019-01095-z

28.27. Burgos-García, J., & Delgado, J. (2013). On the "blue sky catastrophe" termination in the restricted four-body problem. *Celestial Mechanics and Dynamical Astronomy*, *117*(2), 113–136. https://doi.org/10.1007/S10569-013-9498-3

28.28. Chongrui, D., & Starinova Olga, L. (2022). Optimal Control of Transfer to Vertical Orbits from Lyapunov Orbits Using Low-Thrust Engine *Mekhatronika, Avtomatizatsiya, Upravlenie*, *23*(3), 158–167. https://doi.org/10.17587/mau.23.158-167

28.29. Castelli, R., Lessard, J.-P., & Mireles James, J. D. (2015). Parameterization of Invariant Manifolds for Periodic Orbits I: Efficient Numerics via the Floquet Normal Form. *SIAM Journal on Applied Dynamical Systems*, *14*(1), 132–167. https://doi.org/10.1137/140960207

28.30. Romanov, V., and, E. D.-I. J. of B., & 2012, undefined. (2012).

Periodic orbits associated with the libration points of the homogeneous rotating gravitating triaxial ellipsoid. *World Scientific*, *22*(10), 1230035. https://doi.org/10.1142/S0218127412300352

28.31. Romanov, V. A., & Doedel, E. J. (2014). Periodic Orbits Associated with the Libration Points of the Massive Rotating Straight Segment. *International Journal of Bifurcation and Chaos*, *24*(04), 1430012. https://doi.org/10.1142/S0218127414300122

28.32. Verrier, P. E., & McInnes, C. R. (2014). Periodic orbits for three and four co-orbital bodies. *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*, *442*(4), 3179–3191. https://doi.org/10.1093/mnras/stu1056

28.33. Henry, D., Henry, D. B., & Scheeres, D. J. (2022). *Relative Dynamics and Shape-based Methods for Guidance in the Restricted Three-Body Problem*. https://www.researchgate.net/profile/Sergio-Cuevas-Del-Valle/publication/368242352_Relative_Dynamics_and_Shape-based_Methods_for_Guidance_in_the_Restricted_Three-Body_Problem/links/63dd536862d2a24f92f5803b/Relative-Dynamics-and-Shape-based-Methods-for-Guidance-in-the-Restricted-Three-Body-Problem.pdf

28.34. Fleurantin, E., Simulation, J. J. N. S. and N., & 2020, undefined. (n.d.). Resonant tori, transport barriers, and chaos in a vector field with a Neimark–Sacker bifurcation. *Elsevier*. Retrieved April 21, 2022, from https://www.sciencedirect.com/science/article/pii/S1007570420300605

28.35. Giraldo, A., Krauskopf, B., & Osinga, H. M. (2017). Saddle Invariant Objects and Their Global Manifolds in a Neighborhood of a Homoclinic Flip Bifurcation of Case B. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *16*(1), 640–686. https://doi.org/10.1137/16M1097419

28.36. Burgos-Garcia, J., Lessard, J.-P., & James, J. D. M. (2019). Spatial periodic orbits in the equilateral circular restricted four-body problem: computer-assisted proofs of existence. *CELESTIAL MECHANICS & DYNAMICAL ASTRONOMY*, *131*(1). https://doi.org/10.1007/s10569-018-9879-8

28.37. W. Hetebrij (2015). VU Research Portal. *Journals.Sagepub.Com*, *47*(3), 220–243. https://research.vu.nl/files/135308569/- thesis.pdf

28.38. Du Chongrui, Starinova O.L. Optimal Control of Transfer to Vertical Orbits from Lyapunov Orbits Using Low-Thrust Engine. Mekhatronika, Avtomatizatsiya, Upravlenie. 2022;23(3):158-167. (In Russ.) https://doi.org/10.17587/mau.23.158-167

29. Calleja, R. and Figueras, J.-Ll., **Collision of invariant bundles of quasi-periodic attractors in the dissipative standard map**, Chaos 22, 033114 (2012)
pdf, preprint: mp_arc 11-182

Citado por:

29.1. D Blessing, JD James, Weighted Birkhoff Averages and the Parameterization Method, arXiv preprint arXiv:2306.16597, 2023 - arxiv.org

29.2. V Linroth, Computer assisted proofs for hyperbolic quasi-periodic invariant tori in dissipative twist maps, arXiv preprint arXiv:2305.04640, 2023 - arxiv.org

29.3. Su, X., & de la Llave, R. (2017). A Continuous Family of Equilibria in Ferromagnetic Media are Ground States. *Communications in Mathematical Physics*, *354*(2), 459–475. https://doi.org/10.1007/s00220-017-2913-y

29.4. Canadell, M., & Haro, À. (2016). A newton-like method for computing normally hyperbolic invariant tori. In *Applied Mathematical Sciences (Switzerland)* (Vol. 195, pp. 187–238). https://doi.org/10.1007/978-3-319-29662-3_5

29.5. Zhang, L. (2017). *Analysis and numerical methods in solid state physics and chemistry.* https://smartech.gatech.edu/handle/1853/58675

29.6. Zhao, H., & Tian, L. (2017). Analytic invariant curves for an iterative equation related to dissipative standard map. *Mathematical Methods in the Applied Sciences*, *40*(10), 3733–3740. https://doi.org/10.1002/mma.4260

29.7. Capiński, M., Equations, P. Z.-J. of D., & 2017, undefined. (n.d.). Beyond the Melnikov method: a computer

assisted approach. *Elsevier*. Retrieved April 22, 2022, from https://www.sciencedirect.com/science/article/pii/S0022039616303059

29.8. Sousa-Silva, P. A., & Terra, M. O. (2018). Biparametric investigation of the general standard map: multistability and global bifurcations. *COMPUTATIONAL & APPLIED MATHEMATICS*, *37*(3), 3726–3743. https://doi.org/10.1007/s40314-017-0544-8

29.9. Victor Linroth, (2021). Breakdown of hyperbolicity for quasiperiodic attracting invariant circles in a family of three-dimensional Henon-like maps. *Arxiv.Org*. https://arxiv.org/abs/1906.07515

29.10. Celletti, A., Gales, C., Rodriguez-Fernandez, V., & Vasile, M. (2022). Classification of regular and chaotic motions in Hamiltonian systems with deep learning. *Scientific Reports*, *12*(1). https://doi.org/10.1038/s41598-022-05696-9

29.11. Canadell Cano, M. (2014). *Computation of Normally Hyperbolic Invariant Manifolds*. http://diposit.ub.edu/dspace/handle/2445/56844

29.12. Canadell, M., & Haro, À. (2017). Computation of Quasi-Periodic Normally Hyperbolic Invariant Tori: Algorithms, Numerical Explorations and Mechanisms of Breakdown. *Journal of Nonlinear Science*, *27*(6), 1829–1868. https://doi.org/10.1007/S00332-017-9388-Z

29.13. Canadell, M., & Haro, A. (2017). Computation of Quasiperiodic Normally Hyperbolic Invariant Tori: Rigorous Results. *JOURNAL OF NONLINEAR SCIENCE*, *27*(6), 1869–1904. https://doi.org/10.1007/s00332-017-9389-y

29.14. Huguet, G., Llave, R. de la, ArXiv:1004.5231, Y. S. preprint, & 2010, U. (2010). Computation of whiskered invariant tori and their associated manifolds: new fast algorithms. *Arxiv.Org*. https://arxiv.org/abs/1004.5231

29.15. Lessard, J., Analysis, J. M. J.-S. J. on M., & 2017, undefined. (2017). Computer assisted Fourier analysis in sequence spaces of varying regularity. *SIAM*, *49*(1), 530–561. https://doi.org/10.1137/16M1056006

29.16. Linroth, V. (2023). *Computer assisted proofs for hyperbolic* *quasi-periodic invariant tori in dissipative twist maps. 8.* http://arxiv.org/abs/2305.04640

29.17. Yao, Y., arXiv:2110.15882, R. D. L. L. preprint, & 2021, undefined. (n.d.). Computing the Invariant Circle and its Stable Manifolds for a 2-D Map by the Parameterization Method: Effective Algorithms and Rigorous Proofs of Convergence. *Arxiv.Org*. Retrieved April 22, 2022, from https://arxiv.org/abs/2110.15882

29.18. Yao, Y., arXiv:2110.15893, R. D. L. L. preprint, & 2021, undefined. (2021). Computing the Invariant Circle and the Foliation by Stable Manifolds for a 2-D Map by the Parameterization Method: Numerical Implementation and Results. *Arxiv.Org*. https://arxiv.org/abs/2110.15893

29.19. Fox, A., Numerical, J. M.-C. in N. S. and, & 2014, undefined. (n.d.). Critical invariant circles in asymmetric and multiharmonic generalized standard maps. *Elsevier*. Retrieved April 22, 2022, from https://www.sciencedirect.com/science/article/pii/S1007570413003481

29.20. Tipo B, J. Ll. Figueras &A. Haro, 2015, Different scenarios for hyperbolicity breakdown in quasiperiodic area preserving twist maps. *Aip.Scitation.Org*. Retrieved April 22, 2022, from https://aip.scitation.org/doi/abs/10.1063/1.4938185

29.21. Bustamante, A. P. (2021). *Domains of analyticity and Gevrey estimates of tori in weakly dissipative systems.* https://smartech.gatech.edu/handle/1853/66079

29.22. Tipo B, Figueras, J., Haro, A., Nonlinearity, A. L.-, & 2019, undefined. (n.d.). Effective bounds for the measure of rotations. *Iopscience.Iop.Org*. Retrieved June 7, 2023, from https://iopscience.iop.org/article/10.1088/1361-6544/ab500d/meta

29.23. Su, X., Zhang, L., De La Llave, R., De, R., & Llave, L. A. (2015). EQUILIBRIUM QUASI-PERIODIC CONFIGURATIONS WITH RESONANT FREQUENCIES IN QUASI-PERIODIC MEDIA I: PERTURBATIVE EXPANSIONS. *Researchgate.Net*. https://www.researchgate.net/profile/Rafael-De-La-Llave/publication/273471870_Equilibrium_quasi-periodic_configurations_with_resonant_frequencies_in_quasi-periodic_media_I_perturbative_expansions/links/550c34980cf2128741601f4a/Equilibriu quasi-periodic-configurations-with-resonant-frequencies-in-quasi-periodic-media-I-perturbative-expansions.pdf

29.24. Haro, A., & Mondelo, J. M. (2021). Flow map parameterization methods for invariant tori in Hamiltonian systems. *Communications in Nonlinear Science and Numerical Simulation*, *101*. https://doi.org/10.1016/j.cnsns.2021.105859

29.25. Si, W., Si, J., Su, X., & De La Llave, R. (2012). KAM theory for quasi-periodic equilibria in 1D quasi-periodic media: II. Long-range interactions. *Iopscience.Iop.Org*, *45*, 24. https://doi.org/10.1088/1751-8113/45/45/455203

29.26. Su, X., & De La Llave, R. (2012). Kam theory for quasi-periodic equilibria in one-dimensional quasi-periodic media. *SIAM Journal on Mathematical Analysis*, *44*(6), 3901–3927. https://doi.org/10.1137/12087160X

29.27. Adrián, Bustamante, A. P., & Chandre, C. (2021). *Numerical computation of critical surfaces for the breakup of invariant tori in Hamiltonian systems*. http://arxiv.org/abs/2109.12235

29.28. Canadell, M., & Haro, A. (2014). Parameterization Method for Computing Quasi-periodic Reducible Normally Hyperbolic Invariant Tori. In Casas, F and Martinez, V (Ed.), *ADVANCES IN DIFFERENTIAL EQUATIONS AND APPLICATIONS* (Vol. 4, pp. 85–94). https://doi.org/10.1007/978-3-319-06953-1_9

29.29. Tipo B, Haro, A., Canadell, M., Figueras, J. L., Luque, A., & Mondelo, J. M. (2016). Parameterization Method for Invariant Manifolds: From Rigorous Results to Effective Computations. In *PARAMETERIZATION METHOD FOR INVARIANT MANIFOLDS: FROM RIGOROUS RESULTS TO EFFECTIVE COMPUTATIONS* (Vol. 195, pp. 1–267). https://doi.org/10.1007/978-3-319-29662-3

29.30. Van Den Berg, J. B., & Mireles James, J. D. (2016). Parameterization of slow-stable manifolds and their invariant vector bundles: Theory and numerical implementation. *Discrete and*

Continuous Dynamical Systems- Series A, *36*(9), 4637–4664. https://doi.org/10.3934/dcds.2016002

29.31. van den Berg, J. B., & James, J. D. M. (2016). PARAMETERIZATION OF SLOW-STABLE MANIFOLDS AND THEIR INVARIANT VECTOR BUNDLES: THEORY AND NUMERICAL IMPLEMENTATION. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS*, *36*(9), 4637–4664. https://doi.org/10.3934/dcds.2016002

29.32. Ohlson Timoudas, T. (2017). Power law asymptotics in the creation of strange attractors in the quasi-periodically forced quadratic family. *Nonlinearity*, *30*(12), 4483–4522. https://doi.org/10.1088/1361-6544/aa8c9e

29.33. Tipo B, Figueras, J.-L., Haro, A., & Luque, A. (2017). Rigorous Computer-Assisted Application of KAM Theory: A Modern Approach. *Foundations of Computational Mathematics*, *17*(5), 1123–1193. https://doi.org/10.1007/s10208-016-9339-3

29.34. Tipo B, Figueras, J.-L., & Timoudas, T. O. (2020). SHARP 1/2-HOLDER CONTINUITY OF THE LYAPUNOV EXPONENT AT THE BOTTOM OF THE SPECTRUM FOR A CLASS OF SCHRODINGER COCYCLES. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS*, *40*(7), 4519–4531. https://doi.org/10.3934/dcds.2020189

29.35. Simó, C. (2018). Some questions looking for answers in dynamical systems. *Discrete and Continuous Dynamical Systems- Series A*, *38*(12), 6215–6239. https://doi.org/10.3934/dcds.2018267

29.36. Blass, T., & de la Llave, R. (2013). The Analyticity Breakdown for Frenkel-Kontorova Models in Quasi-periodic Media: Numerical Explorations. *Journal of Statistical Physics*, *150*(6), 1183–1200. https://doi.org/10.1007/s10955-013-0718-8

29.37. Cabré, X., Fontich, E., & de la Llave, R. (2005). The parameterization method for invariant manifolds III: Overview and applications. *Journal of Differential Equations*, *218*(2), 444–515. https://doi.org/10.1016/j.jde.2004.12.003

29.38. Zhang, L., & de la Llave, R. (2018). Transition state theory

with quasi-periodic forcing. *COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION*, *62*, 229–243. https://doi.org/10.1016/j.cnsns.2018.02.014

29.39. Tipo B, Figueras, J. L., & Haro, À. (2013). Triple collisions of invariant bundles. *Discrete and Continuous Dynamical Systems - Series B*, *18*(8), 2069–2082. https://doi.org/10.3934/dcdsb.2013.18.2069

29.40. Tipo B, Figueras, J.-L., & Haro, A. (2013). TRIPLE COLLISIONS OF INVARIANT BUNDLES. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, *18*(8), 2069–2082. https://doi.org/10.3934/dcdsb.2013.18.2069

29.41. James, J. D. M. (2018). Validated numerics for equilibria of analytic vector fields: Invariant manifolds and connecting orbits. In VanDenBerg, JB and Lessard, JP (Ed.), *RIGOROUS NUMERICS IN DYNAMICS* (Vol. 74, pp. 27–80). https://doi.org/10.1090/psapm/074/00642

30. Calleja, R. and de la Llave, R., **Computation of the breakdown of analyticity in statistical mechanics models: numerical results and a renormalization group explanation,** Journal of Statistical Physics (2010) 141:940-951
pdf, preprint: mp_arc 09-56

Citado por:

30.1. Wurm, A., & Martini, K. M. (2013). Breakup of inverse golden mean shearless tori in the two-frequency standard nontwist map. *PHYSICS LETTERS A*, *377*(8), 622–627. https://doi.org/10.1016/j.physleta.2013.01.003

30.2. Celletti, A., Gales, C., Rodriguez-Fernandez, V., & Vasile, M. (2022). Classification of regular and chaotic motions in Hamiltonian systems with deep learning. *SCIENTIFIC REPORTS*, *12*(1). https://doi.org/10.1038/s41598-022-05696-9

30.3. Tipo B, Huguet, G., De La Llave, R., & Sire, Y. (2012). Computation of whiskered invariant tori and their associated manifolds: New fast algorithms. In *Discrete and Continuous Dynamical Systems* (Vol. 32, Issue 4, pp. 1309–1353).

https://doi.org/10.3934/dcds.2012.32.1309

30.4. Lessard, J.-P., & Mireles James, J. D. (2017). Computer Assisted Fourier Analysis in Sequence Spaces of Varying Regularity. *SIAM Journal on Mathematical Analysis*, *49*(1), 530–561. https://doi.org/10.1137/16M1056006

30.5. Fox, A. M., & Meiss, J. D. (2016). Computing the Conjugacy of Invariant Tori for Volume-Preserving Maps. *SIAM Journal on Applied Dynamical Systems*, *15*(1), 557–579. https://doi.org/10.1137/15M1022859

30.6. Fox, A. M., & Meiss, J. D. (2014). Critical invariant circles in asymmetric and multiharmonic generalized standard maps. *Communications in Nonlinear Science and Numerical Simulation*, *19*(4), 1004–1026. https://doi.org/10.1016/j.cnsns.2013.07.028

30.7. Figueras, J.-L., & Haro, À. (2015). Different scenarios for hyperbolicity breakdown in quasiperiodic area preserving twist maps. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *25*(12), 123119. https://doi.org/10.1063/1.4938185

30.8. Tipo B Su, X., & de la Llave, R. (2012). KAM theory for quasi-periodic equilibria in 1D quasi-periodic media: II. Long-range interactions. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, *45*(45). https://doi.org/10.1088/1751-8113/45/45/455203

30.9. Tipo B, Su, X., & de la Llave, R. (2012). KAM Theory for Quasi-periodic Equilibria in One-Dimensional Quasi-periodic Media. *SIAM Journal on Mathematical Analysis*, *44*(6), 3901–3927. https://doi.org/10.1137/12087160X

30.10. Bustamante, A. P., & Chandre, C. (2023). Numerical Computation of Critical Surfaces for the Breakup of Invariant Tori in Hamiltonian Systems. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *22*(1), 483–500. https://doi.org/10.1137/21M1448501

30.11. Tipo B, de la Llave, R., Su, X., & Zhang, L. (2017). Resonant Equilibrium Configurations in Quasi-Periodic Media: KAM Theory. *SIAM Journal on Mathematical Analysis*, *49*(1), 597–625. https://doi.org/10.1137/15M1048598

30.12. Tipo B, Blass, T., de la Llave, R., 2013, The analyticity breakdown for Frenkel-Kontorova models in quasi-periodic media: numerical explorations. *Springer*. Retrieved December 6, 2018, from https://link.springer.com/article/10.1007/s10955-013-0718-8

31. Calleja, R. and de la Llave, R., **A numerically accessible criterion for the breakdown of quasi-periodic solutions and its rigorous justificaition,** Nonlinearity 23, (2010) 2029-2058
pdf, preprint: mp_arc 09-150

Citado por:

31.1. D Blessing, JD James, Weighted Birkhoff Averages and the Parameterization Method, arXiv preprint arXiv:2306.16597, 2023 - arxiv.org

31.2. Tipo B, B Kumar, RL Anderson, R de la Llave, Transfers between Jupiter-Ganymede and Jupiter-Europa resonant tori in a concentric circular restricted 4-body model, Acta Astronautica, 2023 - Elsevier

31.3. Villanueva, J. (2017). A New Approach to the Parameterization Method for Lagrangian Tori of Hamiltonian Systems. *JOURNAL OF NONLINEAR SCIENCE*, *27*(2), 495–530. https://doi.org/10.1007/s00332-016-9342-5

31.4. Villanueva, J. (2018). A Parameterization Method for Lagrangian Tori of Exact Symplectic Maps of R-2r. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *17*(3), 2289–2331. https://doi.org/10.1137/18M1168789

31.5. Tipo B, de la Llave, R., & Sire, Y. (2019). An A Posteriori KAM Theorem for Whiskered Tori in Hamiltonian Partial Differential Equations with Applications to some Ill-Posed Equations. *ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS*, *231*(2), 971–1044. https://doi.org/10.1007/s00205-018-1293-6

31.6. Bustamante, A. P. (2017). *Analysis and numerical methods in solid state physics and chemistry.* https://smartech.gatech.edu/handle/1853/58675

31.7. Haro, A., & Luque, A. (2019). A-posteriori KAM theory with optimal estimates for partially integrable systems. *JOURNAL OF DIFFERENTIAL EQUATIONS*, *266*(2–3), 1605–1674.

https://doi.org/10.1016/j.jde.2018.08.003

31.8. Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

31.9. Tipo B, Huguet, G., & de la Llave, R. (2013). Computation of Limit Cycles and Their Isochrons: Fast Algorithms and Their Convergence. *SIAM Journal on Applied Dynamical Systems*, *12*(4), 1763–1802. https://doi.org/10.1137/120901210

31.10. Canadell, M., & Haro, À. (2017). Computation of Quasiperiodic Normally Hyperbolic Invariant Tori: Rigorous Results. *Journal of Nonlinear Science*, *27*(6), 1869–1904. https://doi.org/10.1007/s00332-017-9389-y

31.11. Tipo B, Huguet, G., De La Llave, R., & Sire, Y. (2012). Computation of whiskered invariant tori and their associated manifolds: New fast algorithms. In *Discrete and Continuous Dynamical Systems* (Vol. 32, Issue 4, pp. 1309–1353). https://doi.org/10.3934/dcds.2012.32.1309

31.12. Mireles James, J. D. (2015). Computer assisted error bounds for linear approximation of (un)stable manifolds and rigorous validation of higher dimensional transverse connecting orbits. *Communications in Nonlinear Science and Numerical Simulation*, *22*(1–3), 1102–1133. https://doi.org/10.1016/j.cnsns.2014.08.010

31.13. Lessard, J.-P., & Mireles James, J. D. (2017). Computer Assisted Fourier Analysis in Sequence Spaces of Varying Regularity. *SIAM Journal on Mathematical Analysis*, *49*(1), 530–561. https://doi.org/10.1137/16M1056006

31.14. Fox, A. M., & Meiss, J. D. (2016). Computing the conjugacy of invariant tori for volume-preserving maps. *SIAM Journal on Applied Dynamical Systems*, *15*(1), 557–579. https://doi.org/10.1137/15M1022859

31.15. Tipo B, Yao, Y., & De La Llave, R. (2021). *Computing the Invariant Circle and its Stable Manifolds for a 2-D Map by the Parameterization Method: Effective Algorithms and Rigorous Proofs* *of Convergence*. http://arxiv.org/abs/2110.15882

31.16. MRAMOR, B., & RINK, B. (2015). Continuity of the Peierls barrier and robustness of laminations. *Ergodic Theory and Dynamical Systems*, *35*(04), 1263–1288. https://doi.org/10.1017/etds.2013.101

31.17. Fox, A. M., & Meiss, J. D. (2014). Critical invariant circles in asymmetric and multiharmonic generalized standard maps. *Communications in Nonlinear Science and Numerical Simulation*, *19*(4), 1004–1026. https://doi.org/10.1016/j.cnsns.2013.07.028

31.18. Figueras, J.-L., & Haro, À. (2015). Different scenarios for hyperbolicity breakdown in quasiperiodic area preserving twist maps. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *25*(12), 123119. https://doi.org/10.1063/1.4938185

31.19. Bustamante, A. P. (2021). *Domains of analyticity and Gevrey estimates of tori in weakly dissipative systems*. https://smartech.gatech.edu/handle/1853/66079

31.20. Tipo B, Gonzalez, A., Haro, A., & de la Llave, R. (n.d.). Efficient and Reliable Algorithms for the Computation of Non-Twist Invariant Circles. *FOUNDATIONS OF COMPUTATIONAL MATHEMATICS*. https://doi.org/10.1007/s10208-021-09517-9

31.21. Tipo B, González, A., Haro, À., & de la Llave, R. (2022). Efficient and Reliable Algorithms for the Computation of Non-Twist Invariant Circles. *Foundations of Computational Mathematics*, *22*(3), 791–847. https://doi.org/10.1007/S10208-021-09517-9

31.22. Miguel, N., Simo, C., & Vieiro, A. (2022). Escape Times Across the Golden Cantorus of the Standard Map. *REGULAR \& CHAOTIC DYNAMICS*, *27*(3, SI), 281–306. https://doi.org/10.1134/S1560354722030029

31.23. Bauer, S., & Petrov, N. P. (2020). Existence of kam tori for presymplectic vector fields. *Electronic Journal of Differential Equations*, *2020*, 1–26. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098861085&partnerID=40&md5=5f25d36c8e906b96f7814805dd562b10

31.24. Simo, C. (2016). Experiments looking for theoretical predictions. *INDAGATIONES MATHEMATICAE-NEW SERIES*, *27*(5, SI), 1068–1080. https://doi.org/10.1016/j.indag.2015.11.013

31.25. Yao, Y. (2021). *Fast Algorithm for Invariant Circle and their Stable Manifolds: Rigorous Results and Efficient Implementations.* https://smartech.gatech.edu/handle/1853/65032

31.26. Tipo B, Huguet, G., De La Llave, R., & Sire, Y. (2013). Fast iteration of cocycles over rotations and Computation of hyperbolic bundles. *Discrete and Continuous Dynamical Systems - Series S*, *SUPPL.*, 323–333. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84901393127&partnerID=40&md5=961dee662e57725d3281380ff3c27a32

31.27. Reinhardt, C., Mathematicae, J. J.-I., & 2019, undefined. (n.d.). Fourier–Taylor parameterization of unstable manifolds for parabolic partial differential equations: Formalism, implementation and rigorous validation. *Elsevier*. Retrieved April 22, 2022, from https://www.sciencedirect.com/science/article/pii/S0019357718301976

31.28. Qin, W.-X., & Wang, Y.-N. (2018). Invariant circles and depinning transition. *ERGODIC THEORY AND DYNAMICAL SYSTEMS*, *38*(2), 761–787. https://doi.org/10.1017/etds.2016.42

31.29. Tipo B, Su, X., & de la Llave, R. (2012). KAM theory for quasi-periodic equilibria in 1D quasi-periodic media: II. Long-range interactions. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, *45*(45). https://doi.org/10.1088/1751-8113/45/45/455203

31.30. Tipo B, Su, X., & de la Llave, R. (2012). KAM Theory for Quasi-periodic Equilibria in One-Dimensional Quasi-periodic Media. *SIAM Journal on Mathematical Analysis*, *44*(6), 3901–3927. https://doi.org/10.1137/12087160X

31.31. Petrisor, E. (2014). Monotone gradient dynamics and the location of stationary (p , q)-configurations. *Journal of Physics A: Mathematical and Theoretical*, *47*(4), 045102. https://doi.org/10.1088/1751-8113/47/4/045102

31.32. Soga, K. (2016). More on stochastic and variational approach to the Lax-Friedrichs scheme. *Mathematics of Computation*, *85*(301), 2161–2193. https://doi.org/10.1090/mcom/3061

31.33. Fiedler, R. (2021). *Numerical analysis of invariant manifolds characterized by quasi-periodic oscillations of nonlinear systems*. https://kobra.uni-kassel.de/handle/123456789/12932

31.34. Mramor, B., & Rink, B. W. (2014). On the destruction of minimal foliations. *Proceedings of the London Mathematical Society*, *108*(3), 704–737. https://doi.org/10.1112/plms/pdt045

31.35. Haro, A., Canadell, M., Figueras, J. L., Luque, A., & Mondelo, J. M. (2016). Parameterization Method for Invariant Manifolds: From Rigorous Results to Effective Computations. In *PARAMETERIZATION METHOD FOR INVARIANT MANIFOLDS: FROM RIGOROUS RESULTS TO EFFECTIVE COMPUTATIONS* (Vol. 195, pp. 1–267). https://doi.org/10.1007/978-3-319-29662-3

31.36. Castelli, R., Lessard, J.-P., & Mireles James, J. D. (2015). Parameterization of Invariant Manifolds for Periodic Orbits I: Efficient Numerics via the Floquet Normal Form. *SIAM Journal on Applied Dynamical Systems*, *14*(1), 132–167. https://doi.org/10.1137/140960207

31.37. Mireles James, J. D. (2015). Polynomial approximation of one parameter families of (un)stable manifolds with rigorous computer assisted error bounds. *Indagationes Mathematicae*, *26*(1), 225–265. https://doi.org/10.1016/j.indag.2014.10.002

31.38. Stefanelli, L., & Locatelli, U. (2015). Quasi-periodic motions in a special class of dynamical equations with dissipative effects: A pair of detection methods. *Discrete and Continuous Dynamical Systems - Series B*, *20*(4), 1155–1187. https://doi.org/10.3934/dcdsb.2015.20.1155

31.39. Tipo B, de la Llave, R., Su, X., & Zhang, L. (2017). Resonant Equilibrium Configurations in Quasi-Periodic Media: KAM Theory. *SIAM Journal on Mathematical Analysis*, *49*(1), 597–625. https://doi.org/10.1137/15M1048598

31.40. Wang, F., Analysis, R. de la L.-S. J. on M., & 2020, undefined. (2020). Response solutions to quasi-periodically forced systems, even to possibly ill-posed PDEs, with strong dissipation and any frequency vectors. *SIAM*, *52*(4), 3149–3191.

https://doi.org/10.1137/19M1272159

31.41. Mireles James, J. D., & Mischaikow, K. (2013). Rigorous A Posteriori Computation of (Un)Stable Manifolds and Connecting Orbits for Analytic Maps. *SIAM Journal on Applied Dynamical Systems*, *12*(2), 957–1006. https://doi.org/10.1137/12088224X

31.42. Figueras, J.-L., Haro, A., & Luque, A. (2017). Rigorous Computer-Assisted Application of KAM Theory: A Modern Approach. *Foundations of Computational Mathematics*, *17*(5), 1123–1193. https://doi.org/10.1007/s10208-016-9339-3

31.43. Tipo B, de la Llave, R. (2017). Simple proofs and extensions of a result of L. D. Pustylnikov on the nonautonomous Siegel theorem. *REGULAR & CHAOTIC DYNAMICS*, *22*(6), 650–676. https://doi.org/10.1134/S1560354717060053

31.44. Simó, C. (2018). Some questions looking for answers in dynamical systems. *Discrete & Continuous Dynamical Systems - A*, *38*(12), 6215–6239. https://doi.org/10.3934/dcds.2018267

31.45. Blass, T., Physics, R. de la L.-J. of S., & 2013, undefined. (n.d.). The analyticity breakdown for Frenkel-Kontorova models in quasi-periodic media: numerical explorations. *Springer*. Retrieved December 6, 2018, from https://link.springer.com/article/10.1007/s10955-013-0718-8

31.46. Tipo B, Alishah, H. N., & de la Llave, R. (2012). Tracing KAM Tori in Presymplectic Dynamical Systems. *JOURNAL OF DYNAMICS AND DIFFERENTIAL EQUATIONS*, *24*(4), 685–711. https://doi.org/10.1007/s10884-012-9265-2

32. Calleja, R. and Celletti, A., **Breakdown of invariant attractors for the dissipative standard map,** Chaos 20, 013121 (2010) pdf, preprint: mp_arc 09-124

Citado por:

32.1. V Linroth, Computer assisted proofs for hyperbolic quasi-periodic invariant tori in dissipative twist maps, arXiv preprint arXiv:2305.04640, 2023 - arxiv.org

32.2. Su, X., & de la Llave, R. (2017). A Continuous Family of Equilibria in Ferromagnetic Media are Ground States. *Communications in Mathematical Physics*, *354*(2), 459–475. https://doi.org/10.1007/s00220-017-2913-y

32.3. CHEN, C., CORLESS, R. M., MAZA, M. M., YU, P., & ZHANG, Y. (2013). AN APPLICATION OF REGULAR CHAIN THEORY TO THE STUDY OF LIMIT CYCLES. *International Journal of Bifurcation and Chaos*, *23*(09), 1350154. https://doi.org/10.1142/S021812741350154X

32.4. Zhao, H., & Tian, L. (2017). Analytic invariant curves for an iterative equation related to dissipative standard map. *Mathematical Methods in the Applied Sciences*, *40*(10), 3733–3740. https://doi.org/10.1002/mma.4260

32.5. Sousa-Silva, P., Mathematics, M. T.-C. and A., & 2018, undefined. (n.d.). Biparametric investigation of the general standard map: multistability and global bifurcations. *Springer*. Retrieved December 6, 2018, from https://link.springer.com/article/10.1007/s40314-017-0544-8

32.6. Sousa-Silva, P. A., & Terra, M. O. (2018). Biparametric investigation of the general standard map: multistability and global bifurcations. *COMPUTATIONAL & APPLIED MATHEMATICS*, *37*(3), 3726–3743. https://doi.org/10.1007/s40314-017-0544-8

32.7. Tipo B, Bustamante, A. P., Celletti, A., & Lhotka, C. (n.d.). BREAKDOWN OF ROTATIONAL TORI IN 2D AND 4D CONSERVATIVE AND DISSIPATIVE STANDARD MAPS. Physica D: Nonlinear Phenomena, Volume 453, November 2023, 133790

32.8. V. Linroth 2023, (2023). Computer assisted proofs for hyperbolic quasi-periodic invariant tori in dissipative twist maps. *Arxiv.Org*, *8*. https://arxiv.org/abs/2305.04640

32.9. Falcolini, C., & Tedeschini-Lalli, L. (2018). DIVERGING PERIOD AND VANISHING DISSIPATION: FAMILIES OF PERIODIC SINKS IN THE QUASI-CONSERVATIVE CASE. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS*, *38*(12, SI), 6105–6122. https://doi.org/10.3934/dcds.2018263

32.10. FALCOLINI, C., & TEDESCHINI-LALLI, L. (2013). HÉNON MAP: SIMPLE SINKS GAINING COEXISTENCE AS b $\to$ 1. *International Journal of Bifurcation and Chaos*, *23*(09), 1330030. https://doi.org/10.1142/S0218127413300309

32.11. Tipo B, Celletti, A., Di Ruzza, S., Lhotka, C., & Stefanelli, L. (2010). Nearly-integrable dissipative systems and celestial mechanics. *EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS*, *186*(1), 33–66. https://doi.org/10.1140/epjst/e2010-01259-2

32.12. Tipo B, Celletti, A., & Di Ruzza, S. (2011). PERIODIC AND QUASI-PERIODIC ORBITS OF THE DISSIPATIVE STANDARD MAP. *DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B*, *16*(1), 151–171. https://doi.org/10.3934/dcdsb.2011.16.151

32.13. Stefanelli, L., & Locatelli, U. (2015). Quasi-periodic motions in a special class of dynamical equations with dissipative effects: A pair of detection methods. *Discrete and Continuous Dynamical Systems - Series B*, *20*(4), 1155–1187. https://doi.org/10.3934/dcdsb.2015.20.1155

32.14. Tipo B, Celletti, A., & Gachet, F. (2016). Regular and Chaotic Motions in Dynamical Systems with Applications to Asteroid and Debris Dynamics. In *Asteroid and Space Debris Manipulation: Advances from the Stardust Research Network* (pp. 123–150). https://doi.org/10.2514/5.9781624103247.0123.0150

32.15. Tipo B, Celletti, A. (2012). Some Aspects of Conservative and Dissipative KAM Theorems. *Milan Journal of Mathematics*, *80*(1), 25–46. https://doi.org/10.1007/s00032-012-0176-9

32.16. Blass, T., Physics, R. de la L.-J. of S., & 2013, undefined. (n.d.). The analyticity breakdown for Frenkel-Kontorova models in quasi-periodic media: numerical explorations. *Springer*. Retrieved December 6, 2018, from https://link.springer.com/article/10.1007/s10955-013-0718-8

33. Calleja, R. and Sire, Y., **Travelling waves in discrete nonlinear systems with non-nearest neighbour interactions,** Nonlinearity 22, (2009) 2583-2605

pdf , preprint: mp_arc 08-188

Citado por:

33.1. Issa, S., Jazar, M., & Monneau, R. (2013). Existence of supersonic traveling waves for the frenkel-kontorova model. *Differential and Integral Equations*, *26*(3–4), 321–353. https://projecteuclid.org/euclid.die/1360092827

33.2. Faver, T. E., & Hupkes, H. J. (2023). Mass and spring dimer Fermi-Pasta-Ulam-Tsingou nanopterons with exponentially small, nonvanishing ripples. *STUDIES IN APPLIED MATHEMATICS*, *150*(4), 1046–1153. https://doi.org/10.1111/sapm.12564

33.3. Venney, C. R., & Zimmer, J. (2011). Persistence of supersonic periodic solutions for chains with anharmonic interaction potentials between neighbours and next to nearest neighbours. *Dynamical Systems*, *26*(4), 503–518. https://doi.org/10.1080/14689367.2011.620565

33.4. Cheng, H., & de la Llave, R. (2020). Stable manifolds to bounded solutions in possibly ill-posed PDEs. *Journal of Differential Equations*, *268*(8), 4830–4899. https://doi.org/10.1016/j.jde.2019.10.042

33.5. Innocenti, G., & Paoletti, P. (2011). Traveling waves propagation on networks of dynamical systems. *IFAC Proceedings Volumes*, *44*(1), 8445–8450. https://doi.org/10.3182/20110828-6-IT-1002.02238

33.6. Venney, C. R., & Zimmer, J. (2014). TRAVELLING LATTICE WAVES IN A TOY MODEL OF LENNARD-JONES INTERACTION. *QUARTERLY OF APPLIED MATHEMATICS*, *72*(1), 65–84.

33.7. Venney, C., Mathematics, J. Z.-Q. of A., & 2014, undefined. (n.d.). Travelling lattice waves in a toy model of Lennard-Jones interaction. *Opus.Bath.Ac.Uk*. Retrieved December 6, 2018, from http://opus.bath.ac.uk/38905/

33.8. Buffoni, B., Schwetlick, H., & Zimmer, J. (2017). Travelling waves for a Frenkel–Kontorova chain. *Journal of Differential Equations*, *263*(4), 2317–2342. https://doi.org/10.1016/j.jde.2017.03.046

34. Calleja, R. and de la Llave, R., **Fast numerical computation of quasi-periodic equilibrium states in 1-D statistical mechanics, including twist maps,** Nonlinearity 22, (2009) 1311-1336 pdf, preprint: mp_arc 08-189

Citado por:

34.1. D Blessing, JD James, Weighted Birkhoff Averages and the Parameterization Method, arXiv preprint arXiv:2306.16597, 2023 - arxiv.org

34.2. Bustamante, A. P., & Chandre, C. (2023). Numerical Computation of Critical Surfaces for the Breakup of Invariant Tori in Hamiltonian Systems. *SIAM JOURNAL ON APPLIED DYNAMICAL SYSTEMS*, *22*(1), 483–500. https://doi.org/10.1137/21M1448501

34.3. Luque, A., & Villanueva, J. (2011). A KAM theorem without action-angle variables for elliptic lower dimensional tori. *NONLINEARITY*, *24*(4), 1033–1080. https://doi.org/10.1088/0951-7715/24/4/003

34.4. Bustamante, A. P. (2017). *Analysis and numerical methods in solid state physics and chemistry.* https://smartech.gatech.edu/handle/1853/58675

34.5. Canadell, M., & Haro, À. (2017). Computation of Quasi-Periodic Normally Hyperbolic Invariant Tori: Algorithms, Numerical Explorations and Mechanisms of Breakdown. *Journal of Nonlinear Science*, *27*(6), 1829–1868. https://doi.org/10.1007/S00332-017-9388-Z

34.6. Tipo B, Huguet, G., De La Llave, R., & Sire, Y. (2012). Computation of whiskered invariant tori and their associated manifolds: New fast algorithms. In *Discrete and Continuous Dynamical Systems* (Vol. 32, Issue 4, pp. 1309–1353). https://doi.org/10.3934/dcds.2012.32.1309

34.7. Mireles James, J. D. (2015). Computer assisted error bounds for linear approximation of (un)stable manifolds and rigorous validation of higher dimensional transverse connecting orbits. *Communications in Nonlinear Science and Numerical Simulation*, *22*(1–3), 1102–1133. https://doi.org/10.1016/j.cnsns.2014.08.010

34.8. Figueras, J.-L., & Haro, À. (2015). Different scenarios for hyperbolicity breakdown in quasiperiodic area preserving twist maps. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, *25*(12), 123119. https://doi.org/10.1063/1.4938185

34.9. Tipo B, de la Llave, R., & Luque, A. (2011). Differentiability at the Tip of Arnold Tongues for Diophantine Rotations: Numerical Studies and Renormalization Group Explanations. *JOURNAL OF STATISTICAL PHYSICS*, *143*(6), 1154–1188. https://doi.org/10.1007/s10955-011-0233-8

34.10. Bustamante, A. P. (2021). *Domains of analyticity and Gevrey estimates of tori in weakly dissipative systems.* https://smartech.gatech.edu/handle/1853/66079

34.11. Figueras, J. L., Haro, A., & Luque, A. (2020). Effective bounds for the measure of rotations. *Nonlinearity*, *33*(2), 700–741. https://doi.org/10.1088/1361-6544/ab500d

34.12. Haro, A., & Mondelo, J. M. (2021). Flow map parameterization methods for invariant tori in Hamiltonian systems. *Communications in Nonlinear Science and Numerical Simulation*, *101*. https://doi.org/10.1016/j.cnsns.2021.105859

34.13. Haller, G., & Beron-Vera, F. J. (2012). Geodesic theory of transport barriers in two-dimensional flows. *PHYSICA D-NONLINEAR PHENOMENA*, *241*(20), 1680–1702. https://doi.org/10.1016/j.physd.2012.06.012

34.14. Tipo B, de la Llave, R., & Valdinoci, E. (2010). Ground States and Critical Points for Aubry-Mather Theory in Statistical Mechanics. *JOURNAL OF NONLINEAR SCIENCE*, *20*(2), 153–218. https://doi.org/10.1007/s00332-009-9055-0

34.15. Murray, M. (2021). *Homoclinic dynamics in a spatial restricted four body problem.* https://search.proquest.com/openview/6db6a2c6b779fe2ab0cfd84986630e51 origsite=gscholar&cbl=18750&diss=y

34.16. Murray, M., & Mireles James, J. D. (2020). Homoclinic dynamics in a spatial restricted four-body problem: blue skies into Smale horseshoes for vertical Lyapunov families. *Celestial Mechanics and*

Dynamical Astronomy, *132*(6–7). https://doi.org/10.1007/s10569-020-09977-1

34.17. Tipo B, Su, X., & de la Llave, R. (2012). KAM theory for quasi-periodic equilibria in 1D quasi-periodic media: II. Long-range interactions. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, *45*(45). https://doi.org/10.1088/1751-8113/45/45/455203

34.18. Bustamante, A., Systems, C. C.-S. J. on A. D., & 2023, undefined. (2023). Numerical computation of critical surfaces for the breakup of invariant tori in Hamiltonian systems. *SIAM*, *22*(1), 483–500. https://doi.org/10.1137/21M1448501

34.19. Haro, A., Canadell, M., Figueras, J. L., Luque, A., & Mondelo, J. M. (2016). Parameterization Method for Invariant Manifolds: From Rigorous Results to Effective Computations. In *PARAMETERIZATION METHOD FOR INVARIANT MANIFOLDS: FROM RIGOROUS RESULTS TO EFFECTIVE COMPUTATIONS* (Vol. 195, pp. 1–267). https://doi.org/10.1007/978-3-319-29662-3

34.20. Castelli, R., Lessard, J.-P., & Mireles James, J. D. (2015). Parameterization of Invariant Manifolds for Periodic Orbits I: Efficient Numerics via the Floquet Normal Form. *SIAM Journal on Applied Dynamical Systems*, *14*(1), 132–167. https://doi.org/10.1137/140960207

34.21. Tipo B, Su, X., & de la Llave, R. (2012). Percival Lagrangian approach to the Aubry-Mather theory. *EXPOSITIONES MATHEMATICAE*, *30*(2), 182–208. https://doi.org/10.1016/j.exmath.2012.01.003

34.22. James, J. D. M. (2015). Polynomial approximation of one parameter families of (un)stable manifolds with rigorous computer assisted error bounds. *INDAGATIONES MATHEMATICAE-NEW SERIES*, *26*(1), 225–265.

34.23. Tipo B, de la Llave, R., Su, X., & Zhang, L. (2017). Resonant Equilibrium Configurations in Quasi-Periodic Media: KAM Theory. *SIAM Journal on Mathematical Analysis*, *49*(1), 597–625. https://doi.org/10.1137/15M1048598

34.24. Mireles James, J. D., & Mischaikow, K. (2013). Rigorous A

Posteriori Computation of (Un)Stable Manifolds and Connecting Orbits for Analytic Maps. *SIAM Journal on Applied Dynamical Systems*, *12*(2), 957–1006. https://doi.org/10.1137/12088224X

34.25. Blass, T., Physics, R. de la L.-J. of S., & 2013, undefined. (n.d.). The analyticity breakdown for Frenkel-Kontorova models in quasi-periodic media: numerical explorations. *Springer*. Retrieved December 6, 2018, from https://link.springer.com/article/10.1007/s10955-013-0718-8

34.26. Su, X., Physics, L. W.-J. of M., & 2012, undefined. (n.d.). Total destruction of invariant tori for the generalized Frenkel–Kontorova model. *Aip.Scitation.Org*. Retrieved December 6, 2018, from https://aip.scitation.org/doi/abs/10.1063/1.3683233

35. Lomelí, H.E. and Calleja, R., **Heteroclinic bifurcations and chaotic transport in the two-harmonic Standard-Map,** Chaos 16, 023117 (2006)
pdf

Citado por:

35.1. M Mugnaine, BB Leal, AMO de Almeida, Isochronous bifurcations in a two-parameter twist map, arXiv preprint arXiv …, 2023 - arxiv.org

35.2. Wurm, A., & Martini, K. M. (2013). Breakup of inverse golden mean shearless tori in the two-frequency standard nontwist map. *PHYSICS LETTERS A*, *377*(8), 622–627. https://doi.org/10.1016/j.physleta.2013.01.003

35.3. Fox, A. M., & Meiss, J. D. (2014). Critical invariant circles in asymmetric and multiharmonic generalized standard maps. *Communications in Nonlinear Science and Numerical Simulation*, *19*(4), 1004–1026. https://doi.org/10.1016/j.cnsns.2013.07.028

35.4. Enríquez, A. G., Haro, À., -, R. L., 2021, undefined, 22, vol., 791-847, p., & 2021, undefined. (n.d.). Efficient and reliable algorithms for the computation of non-twist invariant circles. *Diposit.Ub.Edu*. Retrieved June 7, 2023, from http://diposit.ub.edu/dspace/handle/2445/190706

35.5. Simo, C. (2016). Experiments looking for theoretical predictions. *INDAGATIONES MATHEMATICAE-NEW SERIES*, *27*(5, SI), 1068–1080. https://doi.org/10.1016/j.indag.2015.11.013

35.6. Tipo B, de la Llave, R., & Lomelí, H. E. (2012). Invariant Manifolds for Analytic Difference Equations. *SIAM Journal on Applied Dynamical Systems*, *11*(4), 1614–1651. https://doi.org/10.1137/110858574

35.7. Simó, C. (2018). Some questions looking for answers in dynamical systems. *Discrete & Continuous Dynamical Systems - A*, *38*(12), 6215–6239. https://doi.org/10.3934/dcds.2018267