

ALLEGATO B

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Marco Sansottera

CURRICULUM VITAE

INFORMAZIONI PERSONALI

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|------------------------|------------|
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| Data Di Nascita | 29/03/1983 |

CURRICULUM VITAE

MARCO SANSOTTERA

Personal Information

Name and surname: Marco Sansottera

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Research experiences

2024.10.07–2024.12.13 Senior Consultant (AI - Data Sciences) at SDG, Milan, Italy.

2023.02.20–2024.05.31 Research Scientist (Machine Learning & Artificial Intelligence) at Rocketloop GMBH, Frankfurt, Germany.

<https://rocketloop.de/en/solutions/rocketloop-labs/>

2017.03.01–2022.03.01 Postdoctoral Researcher (RTD-A), University of Milan.

2013.09.01–2017.02.28 Postdoctoral Researcher at the University of Milan, “*Construction of Invariant Manifolds via Normal Forms: from Celestial Mechanics to Hamiltonian PDE*”. Supervisor: Prof. A. Giorgilli.

2011.10.01–2013.08.31 FSR Postdoctoral Researcher at the University of Namur (“FSR Incoming Post-doctoral Fellowship of the Académie universitaire Louvain, co-funded by the Marie Curie Actions of the European Commission”), “*Dynamics near invariant manifolds (DyNeInMa)*”. Supervisor: Prof. A. Lemaître.

2010.11.01–2011.04.30 Postdoctoral Researcher at the University of Rome “Tor Vergata”, “*Stabilità dei sistemi planetari, aspetti teorici e computazionali*”. Supervisor: Prof. U. Locatelli.

2007.11.05–2011.02.11 Ph.D. in Mathematics at the University of Milan with full marks and honors. Title of the thesis: “*Effective Stability of Hamiltonian Planetary Systems*”. Supervisors: Prof. A. Giorgilli and Prof. U. Locatelli.

Awards and Habilitation

2023 CELMEC prize for the collection “Variational and perturbative methods in Celestial Mechanics”. Paper: V. Danesi, U. Locatelli & M. Sansottera. *Existence proof of librational invariant tori in an averaged model of HD60532 planetary system*. Selection committee: Angel Jorba, Gabriella Pinzari, Susanna Terracini, Alessandra Celletti.

2018 Italian National Scientific Habilitation as Associate Professor in “01/A4 - Fisica Matematica” (unanimous vote) — from 2018.07.03 to 2029.07.13 .

2011 Awarded of a “INdAM-COFUND Fellowships in Mathematics and/or Applications for Experienced Researchers cofunded by Marie Curie” (outgoing type).

(not accepted because already beneficiary of a “FSR Incoming Post-doctoral Fellowship of the Académie universitaire Louvain, cofunded by the Marie Curie Actions”)

Research Projects

2019–2022 Unit Coordinator of the Milan Research Unit for the PRIN research project “New frontiers of Celestial Mechanics: theory and applications” (PI: Prof. Guzzo).

2019–2020 PI of the Progetto Giovani 2019 — INdAM-GNFM research project: “Low-dimensional invariant tori in FPU-like lattices via normal forms”.

2018–2019 PI of the Progetto Giovani 2018 — INdAM-GNFM research project: “Resonant Normal Forms in Hamiltonian Systems”.

2017–2018 Member of the Progetto Giovani 2017 — INdAM-GNFM research project: “Normal form techniques in Lattice Dynamics and Celestial Mechanics: perturbed dynamics via resonant normal forms” (PI: Dr. Penati).

2013–2016 Member of the PRIN research project “Teorie geometriche e analitiche dei sistemi Hamiltoniani in dimensioni finite e infinite” (PI: Prof. Dubrovin).

2014–now Member of the INdAM-GNFM research group.

2009–2011 Member of the INdAM-GNFM research group.

Organizing Experiences

2021 Editor for *Springer Proceedings in Mathematics & Statistics*, Proceedings of the “I-CELMECH Training School — New frontiers of Celestial Mechanics: theory and applications”. DOI:[10.1007/978-3-031-13115-8](https://doi.org/10.1007/978-3-031-13115-8)

2020 Guest Editor for *Mathematics in Engineering*, Special Issue “Modern methods in Hamiltonian perturbation theory” in honour of Prof. Antonio Giorgilli.

2020 Organization of the “I-CELMECH Seminars” (online seminars).

2020 Local & Scientific Organizing Committee for the “I-CELMECH Training School”, 3–7 February 2020, Milan, Italy.

2014 Local Organizing Committee for the “International Astronomical Union (IAU) Symposium 310: Complex planetary systems”, 7–11 July 2014, Namur, Belgium.

2013–2022 Member of the “Commissione Informatica”, Dipartimento di Matematica, Università degli Studi di Milano.

2008–2011 Member of the “Commissione Informatica”, Dipartimento di Matematica, Università degli Studi di Milano.

Education

2005.07.22–2007.07.16 M.Sc. Mathematics at the University of Milano-Bicocca with full marks and honors (110/110 cum laude). Title of the thesis: “*Stabilità nel senso di Nekhoroshev di tori KAM*”. Supervisors: Prof. D. Noja, Prof. A. Giorgilli and Prof. U. Locatelli.

2002.09.17–2005.07.18 B.Sc. in Mathematics at the University of Milano-Bicocca with full marks and honors (110/110 cum laude). Title of the thesis: “*Funzioni a variazione limitata*”. Supervisor: Prof. A. Cellina.

Lectures at Schools

2019 “*KAM theory in Celestial Mechanics*”, Master *Mathematical and physical methods for space science*, University of Turin, Turin, Italy.

2016 “*Programmazione su schede grafiche (GPU) in CUDA*”, Infrastrutture di Calcolo a Basso Costo (INCA-ABACO), Università di Roma “Tor Vergata”, Roma, Italia.

2011 “*Methods of algebraic manipulation in perturbation theory*”, LAPIS 2011: Third La Plata International School on Astronomy and Geophysics, La Plata, Argentina.

Third Mission

2021 “*Alla scoperta delle leggi di Keplero*”, Centro Scolastico La Traccia, Bergamo.

2015 “*I moti planetari: orologi perfetti o sistemi caotici?*”, Scuole Parrocchiali San Biagio, Scuola secondaria di I grado, Monza.

2014 “*I moti planetari: orologi perfetti o sistemi caotici?*”, Liceo Scientifico Santa Dorotea, Arcore.

Graduate Teaching

2020–2021 Professor of the course: “*Celestial Mechanics*”, Dept. of Mathematics, University of Milan.

2017–2020 Teaching assistant of the course: “*Sistemi Hamiltoniani 1*”, charged by Prof. A. Giorgilli, Dept. of Mathematics, University of Milan.

2015–2016 Teaching assistant of the course: “*Laboratorio di Modellistica Matematica*”, charged by Dr. F. Ieva, Dept. of Mathematics, University of Milan.

2014–2016 Teaching assistant of the course: “*Laboratorio di programmazione in CUDA*”, charged by Prof. A. Giorgilli, Dept. of Mathematics, University of Milan.

2013–2016 Teaching assistant of the course: “*Laboratorio di Modellistica Matematica*”, charged by Prof. G. Aletti, Dept. of Mathematics, University of Milan.

2012/13 Professor in charge of the course: “*Applications des systèmes dynamique*”, Master in Mathematics, University of Namur.

Undergraduate Teaching

2018–2020 Teaching assistant of the course: “*Metodi e Modelli Matematici per le Applicazioni*”, charged by Prof. S. Paleari, Dept. of Mathematics, University of Milan.

2013–2018 Teaching assistant of the course: “*Fisica Matematica 1*”, charged by Prof. A. Giorgilli, Dept. of Mathematics, University of Milan.

2009/10 Teaching assistant of the course: “*Metodi e Modelli Matematici per le Applicazioni*”, charged by Prof. S. Paleari, Dept. of Mathematics, University of Milan.

2008–2010 Teaching assistant of the course: “*Progetto MiniMat*”, Facoltà di Scienze e Tecnologie, University of Milan.

Theses supervision

Member of the steering committee of the Ph.D. thesis of Mara Volpi, *Analysis of the long-term stability of multi-planetary extrasolar systems and implications on their orbital characteristics*, University of Namur. Supervisor: Prof. A.-S. Libert.

Advisor of three Master Thesis in Mathematics at the University of Milan:

- M. Assolari: “Sulla eliminazione iterativa di armoniche perturbative” (2022).
- M. Bellan: “Chaos Classification: A Machine Learning Approach” (2021).
- C. Grassi: “On the long-term dynamics of the Galilean moons: an analytic study” (2020).

Advisor of a Bachelor Thesis in Physics at the University of Milan:

- M. Orazi: “An Integrable Model for the Dynamics of Planetary Mean-motion Resonances” (2020).

Co-advisor of 7 Master Thesis in Mathematics at the University of Milan:

- V. Danesi: “Continuazione di orbite periodiche su tori risonanti” (2017).
- M. Nicoletti: “Ricerca di Orbite Periodiche nel Problema di Sitnikov” (2016).
- G. Pichierri: “Expansions in elliptic functions for highly eccentric planetary orbits” (2015).
- P. Corazza: “Evoluzione di sistemi extrasolari in risonanza” (2015).
- S. Boiani: “Stabilità dei sistemi extrasolari: analisi della dipendenza dai parametri orbitali” (2015).
- G.F. Pontoni: “Costruzione di funzioni invarianti per mappe simplettiche” (2014).
- L. Grassi: “Classical and Relativistic dynamics of extrasolar planetary systems” (2013).

Referee experiences

Referee for the journals: *Astronomical Journal*, *Astronomy & Astrophysics*, *Astrophysics and Space Science*, *Celestial Mechanics and Dynamical Astronomy*, *Discrete & Continuous Dynamical Systems — Series A*, *Frontiers*, *International Journal of Bifurcation and Chaos*, *Journal of Differential Equations*, *Journal of Nonlinear Mathematical Physics*,

Mathematics in Computer Science, Physical Review E. *Reviewer* for Mathematical Reviews. Registered in the Register of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE), Section Ricerca di Base.

References

Prof. Timoteo Carletti

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Prof. Alessandra Celletti

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Prof. Carles Simó

Departament de Matemàtica Aplicada i Anàlisi, Universitat de Barcelona,
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Book

A. Giorgilli, U. Locatelli, M. Sansottera: “*Celestial Mechanics: Classical and Modern Methods*”, Accepted for publication in *London Mathematical Society Student Texts*, published by Cambridge University Press (2024).

Papers

- [1] C. Caracciolo, U. Locatelli, M. Sansottera, M. Volpi: “*3D Orbital Architecture of Exoplanetary Systems: KAMStability Analysis*”, *Regular and Chaotic Dynamics* **29**, 565–582 (2024).
[DOI:10.1134/S1560354724040038](#)
- [2] V. Danesi, U. Locatelli, M. Sansottera: “*Existence proof of librational invariant tori in an averaged model of HD60532 planetary system*”, *CeMDA* **135**, 24 (2023).
[DOI:10.1007/s10569-023-10132-9](#) [arXiv:2303.06702](#)
- [3] M. Sansottera, V. Danesi: “*Kolmogorov variation: KAM with knobs (la Kolmogorov)*”, *Mathematics in Engineering* **5**(5), 1–19 (2023).
[DOI:10.3934/mine.2023089](#) [arXiv:2109.06345](#)
- [4] U. Locatelli, C. Caracciolo, M. Sansottera, M. Volpi: “*Invariant KAM tori: from theory to applications to exoplanetary systems*”, *PROMS*. In: Baù, Di Ruzza, Páez, Penati, Sansottera (eds) “*New Frontiers of Celestial Mechanics: Theory and Applications. I-CELMech 2020*”. Springer Proceedings in Mathematics & Statistics, **399**, 1–45 (2022). [DOI:10.1007/978-3-031-13115-8_1](#) [arXiv:2202.06572](#)
- [5] U. Locatelli, C. Caracciolo, M. Sansottera, M. Volpi: *A numerical criterion evaluating the robustness of planetary architectures; applications to the ν Andromedæ system*, Proceedings of the International Astronomical Union, 15(S364), 65-84 (2022).
[DOI:10.1017/S1743921322000461](#) [arXiv:2202.08616](#)
- [6] C. Caracciolo, U. Locatelli, M. Sansottera, M. Volpi: “*Librational KAM tori in the secular dynamics of ν Andromedæ planetary system*”, *MNRAS*, **510**, 2147–2166 (2022).
[DOI:10.1093/mnras/stab3514](#) [arXiv:2108.11834](#)
- [7] M. Sansottera, V. Danesi, T. Penati, S. Paleari, : “*Continuation of spatially localized periodic solutions in discrete NLS lattice via normal forms.*”, *CNSNS*, **108**, 106266 (2022).
[DOI:10.1016/j.cnsns.2022.106266](#) [arXiv:2109.06066](#)
- [8] M. Sansottera, T. Penati, S. Paleari, V. Danesi: “*On the continuation of degenerate periodic orbits via normal form: lower dimensional resonant tori*”, *CNSNS*, **90**, 105360 (2020).
[DOI:10.1016/j.cnsns.2020.105360](#) [arXiv:2005.11859](#)
- [9] M. Sansottera, A.-S. Libert: “*Resonant Laplace-Lagrange theory for extrasolar systems in mean-motion resonance*”, *CeMDA*, **131**:38 (2019).
[DOI:10.1007/s10569-019-9913-5](#) [arXiv:1909.09462](#)
- [10] T. Penati, V. Koukouloyannis, M. Sansottera, S. Paleari, P. Kevrekidis: “*On the nonexistence of degenerate phase-shift multibreathers in Klein-Gordon models with interactions beyond nearest neighbors*”, *Physica-D*, **398**, 92–114 (2019).
[DOI:10.1016/j.physd.2019.06.002](#) [arXiv:1803.03037](#)

- [11] D. Bambusi, A. Fusè, M. Sansottera: “*Exponential stability in the perturbed central motion*”, RCD, **23** 821–841 (2018).
[DOI:10.1134/S156035471807002X](#) [arXiv:1705.00576](#)
- [12] M. Volpi, U. Locatelli, M. Sansottera: “*A reverse KAM method to estimate unknown mutual inclinations in exoplanetary systems*”, CeMDA, **130**:36 (2018).
[DOI:10.1007/s10569-018-9829-5](#) [arXiv:1712.07390](#)
- [13] T. Penati, M. Sansottera, V. Danesi: “*On the continuation of degenerate periodic orbits via normal form: full dimensional resonant tori*”, CNSNS, **61**, 198–224 (2018).
[DOI:10.1016/j.cnsns.2018.02.003](#) [arXiv:1709.07824](#)
- [14] T. Penati, M. Sansottera, S. Paleari, V. Koukouloyannis, P. Kevrekidis: “*On the nonexistence of degenerate phase-shift discrete solitons in a dNLS nonlocal lattice*”, Physica-D, **370**, 1–13 (2018).
[DOI:10.1016/j.physd.2017.12.012](#) [arXiv:1707.01679](#)
- [15] A. Giorgilli, U. Locatelli, M. Sansottera: “*Secular dynamics of a planar model of the Sun-Jupiter-Saturn-Uranus system; effective stability into the light of Kolmogorov and Nekhoroshev theories*”, RCD, **22**, 54–77 (2017).
[DOI:10.1134/S156035471701004X](#) [arXiv:1702.04894](#)
- [16] M. Sansottera, M. Ceccaroni: “*Rigorous estimates for the relegation algorithm*”, CeMDA, **127**, 1–18 (2017).
[DOI:10.1007/s10569-016-9711-2](#) [arXiv:1709.07830](#)
- [17] M. Sansottera, A. Giorgilli, T. Carletti: “*High-order control for symplectic maps*”, Physica-D, **316**, 1–15 (2016).
[DOI:10.1016/j.physd.2015.10.012](#) [arXiv:1510.06561](#)
- [18] M. Sansottera, C. Lhotka, A. Lemaître: “*Effective resonant stability of Mercury*”, MNRAS, **452**, 4145–4152 (2015).
[DOI:10.1093/mnras/stv1429](#) [arXiv:1510.06543](#)
- [19] M. Sansottera, L. Grassi, A. Giorgilli: “*On the relativistic Lagrange-Laplace secular dynamics for extrasolar systems*”, Proc. IAU Symposium S310, 74–77 (2015).
[DOI:10.1017/S174392131400787X](#) [arXiv:1510.06523](#)
- [20] A. Giorgilli, U. Locatelli, M. Sansottera: “*Improved convergence estimates for the Schroder-Siegel problem*”, Ann. di Mat. Pura ed Appl., **194**, 995–1013 (2015).
[DOI:10.1007/s10231-014-0408-4](#) [arXiv:1712.08927](#)
- [21] A. Giorgilli, U. Locatelli, M. Sansottera: “*On the convergence of an algorithm constructing the normal form for lower dimensional elliptic tori in planetary systems*”, CeMDA, **119**, 397–424 (2014).
[DOI:10.1007/s10569-014-9562-7](#) [arXiv:1401.6529](#)
- [22] M. Sansottera, C. Lhotka, A. Lemaître: “*Effective stability around the Cassini state in the spin-orbit problem*”, CeMDA, **119**, 75–89 (2014).
[DOI:10.1007/s10569-014-9547-6](#) [arXiv:1510.06521](#)
- [23] A.-S. Libert, M. Sansottera: “*On the extension of the Laplace-Lagrange secular theory to order two in the masses for extrasolar systems*”, CeMDA, **117**, 149–168 (2013).
[DOI:10.1007/s10569-013-9501-z](#) [arXiv:1306.5624](#)

- [24] M. Sansottera, U. Locatelli, A. Giorgilli: “*On the stability of the secular evolution of the planar Sun-Jupiter-Saturn-Uranus system*”, Math. and Comp. in Sim., **88**, 1–14 (2013).
[DOI:10.1016/j.matcom.2010.11.018](https://doi.org/10.1016/j.matcom.2010.11.018) [arXiv:1010.2609](https://arxiv.org/abs/1010.2609)
- [25] A. Giorgilli, M. Sansottera: “*Methods of algebraic manipulation in perturbation theory*”, Asociacion Argentina de Astronomia, **3**, 147–183 (2011).
<http://adsabs.harvard.edu/abs/2011WSAAA...3..147G> [arXiv:1303.7398](https://arxiv.org/abs/1303.7398)
- [26] M. Sansottera, U. Locatelli, A. Giorgilli: “*A Semi-Analytic Algorithm for Constructing Lower Dimensional Elliptic Tori in Planetary Systems*”, CeMDA, **111**, 337–361 (2011).
[DOI:10.1007/s10569-011-9375-x](https://doi.org/10.1007/s10569-011-9375-x) [arXiv:1010.2617](https://arxiv.org/abs/1010.2617)
- [27] A. Giorgilli, U. Locatelli, M. Sansottera: “*Su un’estensione della teoria di Lagrange per i moti secolari*”, Rend. Ist. Lom., **143**, 221–238 (2010).
[arXiv:1303.7392](https://arxiv.org/abs/1303.7392)
- [28] A. Giorgilli, U. Locatelli, M. Sansottera: “*Kolmogorov and Nekhoroshev theory for the problem of three bodies*”, CeMDA, **104**, 159–173 (2009).
[DOI:10.1007/s10569-009-9192-7](https://doi.org/10.1007/s10569-009-9192-7) [arXiv:1303.7395](https://arxiv.org/abs/1303.7395)
- [29] M. Sansottera: “*Effective Stability of Hamiltonian Planetary Systems*”, Ph.D. Thesis (supervisors: A. Giorgilli and U. Locatelli), Università degli Studi di Milano (2011).
[DOI:10.13130/sansottera-marco_phd2011-02-11](https://doi.org/10.13130/sansottera-marco_phd2011-02-11)

Talks & posters

- [t1] “*Construction of secular librational invariant tori for exoplanetary systems*”, A 3-day workshop in Hamiltonian Systems and Celestial Mechanics, Turin, Italy (2022) [**invited talk**].
- [t2] “*Construction of secular librational invariant tori for exoplanetary systems*”, Theory, models and simulations in Celestial Mechanics, Pisa, Italy (2022).
- [t3] “*Analytic study of the secular dynamics of exoplanetary systems*”, DEA 2019, Kraków, Poland (2019) [**invited talk**].
- [t4] “*Long-term evolution of extrasolar systems via normal forms*”, KePASSA 2019, Logroño, Spain (2019).
- [t5] “*A reverse KAM method to estimate unknown mutual inclinations in exoplanetary systems*”, Perspectives in Hamiltonian dynamics, Venice, Italy (2018).
- [t6] “*A reverse KAM method to estimate unknown mutual inclinations in exoplanetary systems*”, Assemblea Scientifica G.N.F.M., Montecatini Terme, Italy (2018).
- [t7] “*On the continuation of degenerate periodic orbits via normal form: full dimensional resonant tori*”, naXys seminar, Namur, Belgium (2017).
- [t8] “*Analytical treatment of long-term evolution of extrasolar systems: an extension of the classical Laplace-Lagrange secular theory*”, CELMEC VII, San Martino al Cimino, Italy (2017) [**keynote speaker**].
- [t9] “*Quasi-convexity of the Hamiltonian for non Harmonic or non Keplerian central potentials*”, naXys seminar, Namur, Belgium (2017).

- [t10] “*High-order control for symplectic maps*”, Computational perturbative methods for Hamiltonian systems — Applications in physics and astronomy, Athens, Greece (2016) [**invited talk**].
- [t11] “*Rigorous Results on the Relegation Algorithm and Applications via Algebraic Manipulation*”, AstroNet-II International Final Conference, Tossa de Mar, Spain (2015) [**invited talk**].
- [t12] “*Secular dynamics of extrasolar-systems*”, Complex Planetary Systems (IAU Symposium), Namur, Belgium (2014).
- [t13] “*Improved convergence estimates for the Schröder-Siegel problem*”, Assemblée Scientifica G.N.F.M., Montecatini Terme, Italia (2014).
- [t14] “*Lower dimensional elliptic tori in planetary systems via normal form*”, CELMEC VI, San Martino al Cimino, Italia (2013).
- [t15] “*Effective stability around the Cassini state in the spin-orbit problem*”, CELMEC VI, San Martino al Cimino, Italia (2013) [e-poster].
- [t16] “*Non-linear oscillations and long-term evolution, application to planetary systems and spin-orbit problem*”, Planetary Motions, Satellite Dynamics, and Space-ship Orbits, CRM Montreal, Canada (2013) [**invited talk**].
- [t17] “*Secular Evolution of Extrasolar Planetary Systems: an Extension of the Laplace-Lagrange Secular Theory*”, American Astronomical Society Division on Dynamical Astronomy (DDA 2013), Paraty, Brazil (2013).
- [t18] “*On the secular evolution of extrasolar planetary systems*”, Tenth Workshop on Interactions Between Dynamical Systems and Partial Differential Equations (JISD2012), Barcelona, Spain (2012).
- [t19] “*On the secular evolution of extrasolar planetary systems*”, Annual Meeting Graduate School Complex, Bruxelles, Belgium (2012).
- [t20] “*Explicit Construction of Elliptic Tori for Planetary Systems*”, 8th Alexander von Humboldt Colloquium for Celestial Mechanics, Bad Hofgastein, Salzburg, Austria (2011).
- [t21] “*Effective Stability of Hamiltonian Planetary Systems*”, Sistemi dinamici nonlineari e applicazioni, Pisa, Italy, (2011).
- [t22] “*Explicit Construction of Elliptic Tori for Planetary Systems*”, Applications of Computer Algebra (ACA’10), Vlora, Albania (2010).
- [t23] “*Explicit construction of elliptic tori for planetary systems*”, Emerging Topics in Dynamical Systems and Partial Differential Equations, Barcelona, Spain (2010) [poster].
- [t24] “*Towards stability results for planetary problems with more than three bodies*”, Computer Algebra and Differential Equations (CADE 2009), Pamplona, Spain (2009) [**invited talk**].
- [t25] “*Risultati sulla stabilità per problemi planetari con più di tre corpi*”, Assemblée Scientifica G.N.F.M, Montecatini Terme, Italy (2009).
- [t26] “*Towards stability results for planetary problems with more than three bodies*”, CELMEC V, San Martino al Cimino, Italia (2009).

Additional Information

Programming languages: C, CUDA-C, FORTRAN, MPI, OpenMP, Python.

Mathematical Packages: Mathematica, Maxima, Matlab, Octave, T_EX and L^AT_EX.

Operating Systems: GNU/Linux and Windows.

Languages: Italian (mothertongue); English (fluent); French (intermediate level).

Data, 18/12/2024

Luogo, Cornaredo (MI)