

# List of publications

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## Preprint

- [103] D. BONHEURE, M. GROSSI, B. NORIS AND S. TERRACINI *Multi-layer radial solutions for a supercritical Neumann problem*, preprint 2015
- [102] N. SOAVE, H. TAVARES, S. TERRACINI AND A. ZILIO *Hölder bounds and regularity of emerging free boundaries for strongly competing Schrödinger equations with nontrivial grouping*, preprint 2015 (<http://arxiv.org/abs/1506.00800>)
- [101] M. RAMOS, H. TAVARES AND S. TERRACINI, *Existence and regularity of solutions to optimal partition problems involving Laplacian eigenvalues*, preprint 2014 (<http://arxiv.org/abs/1403.6313>)

## Accepted papers

- [100] B. NORIS, M. NYS, S. TERRACINI, *On the eigenvalues of Aharonov-Bohm operators with varying poles: pole approaching the boundary of the domain*, Communications in Mathematical Physics, to appear, preprint 2014 (<http://arxiv.org/abs/1411.5244>)
- [99] S. TERRACINI, G. VERZINI AND A. ZILIO, *Uniform Hölder bounds for strongly competing systems involving the square root of the laplacian*, J. European Mathematical Society, to appear, preprint 2012 (<http://arxiv.org/abs/1211.6087>)

## Published papers

- [98] L. ABATANGELO AND S. TERRACINI, *Harmonic functions in union of chambers*, DCDS-A 35 (2015), 5609-5629 (<http://arxiv.org/abs/1210.1070>)
- [97] N. SOAVE AND S. TERRACINI *Liouville theorems and 1-dimensional symmetry for solutions of an elliptic system modeling phase separation*, Adv. Math. 279 (2015), 29Ð66., (<http://arxiv.org/abs/1404.7288>)
- [96] V. BONNAILLIE-NOËL, B. NORIS, M. NYS, S. TERRACINI, *On the eigenvalues of Aharonov-Bohm operators with varying poles*, Analysis & PDE 7-6 (2014), 1365–1395, (<http://arxiv.org/abs/1310.1211>)
- [95] L. ABATANGELO, V. FELLI AND S. TERRACINI, *Singularity of eigenfunctions at the junction of shrinking tubes, Part II* J. Differential Equations, 256 (2014) 3301-3334, (<http://arxiv.org/abs/1302.2865>)
- [94] S. TERRACINI, N. TZVETKOV AND N. VISCIGLIA, *The Nonlinear Schrödinger equation ground states on product spaces*, Analysis & PDE 7 (2014), n. 1, 73-96 (<http://arxiv.org/abs/1205.0342>)
- [93] L. ABATANGELO, V. FELLI AND S. TERRACINI, *On the sharp effect of attaching a thin handle on the spectral rate of convergence*, Journal of Functional Analysis 266 (2014) 3632-3684 (<http://arxiv.org/abs/1307.7930>)

- [92] S. TERRACINI, G. VERZINI AND A. ZILIO, *Uniform Hölder regularity with small exponent in competition-fractional diffusion systems*, DCDS-A 33 (2014) n.6, 2669-2691 (<http://arxiv.org/abs/1303.6079>)
- [91] V. BARUTELLO, S. TERRACINI AND G. VERZINI, *Entire Parabolic Trajectories as Minimal Phase Transitions*, Calc. Var. PDE, 49 (2014), no. 1-2, 391-429, (<http://arxiv.org/abs/1105.3358>)
- [90] P. POLÁČIK AND S. TERRACINI, *Nonnegative solutions with a nontrivial nodal set for elliptic equations on smooth symmetric domain*, Proc. Amer. Math. Soc. 142 (2014), no. 4, 1249-1259 (<http://arxiv.org/abs/1205.1213>)
- [89] N. SOAVE AND S. TERRACINI, *Avoiding collisions under topological constraints in variational problems coming from celestial mechanics*, Festschrift Volume for Mme Choquet-Bruhat, Journal of Fixed Point Theory and Applications 14 n. 2 (2013), 457-501, (<http://arxiv.org/abs/1404.2490>)
- [88] M-M. BOUREANU, B. NORIS, S. TERRACINI. *Sub and supersolutions, invariant cones and multiplicity results for  $p$ -Laplace equations*, Proceedings of the *Conference on Nonlinear Partial Differential Equations*, edited by Enzo Mitidieri, Vicentiu Radulescu, and James Serrin, Honorary Editor, AMS series on Contemporary Mathematics (CONM) 595 (2013) 91-119 (<http://arxiv.org/abs/1210.2274>)
- [87] H. BERESTYCKI, S. TERRACINI, K. WANG AND J.C. WEI, *Existence and Stability of Entire Solutions of an Elliptic System Modeling Phase Separation*, Advances in Mathematics 243 (2013), 102-126, (<http://arxiv.org/abs/1204.1038>)
- [86] V. FELLI AND S. TERRACINI, *Singularities of eigenfunctions at the junction of shrinking tubes, Part I*, J. Differential Equations, 255 (2013), n.4, 633-700., (<http://arxiv.org/abs/1202.4414>),
- [85] V. BARUTELLO, S. TERRACINI AND G. VERZINI, *Entire Minimal Parabolic Trajectories: the planar anisotropic Kepler problem*, Arch. Rat. Mech. Anal., 207, n. 2 (2013), 583-609, DOI: 10.1007/s00205-012-0565-9 (<http://arxiv.org/abs/1109.5504>)
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- [80] B. NORIS, H. TAVARES TERRACINI S. AND G. VERZINI, *Convergence of minimax and continuation of critical points for singularly perturbed systems*, Journal of the European Mathematical Society 14 (2012) n.4, 1245-1273
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## Books

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- Discrete and Continuous Dynamical Systems - A Special Issue *Qualitative properties of solutions of nonlinear elliptic equations and systems.* Editors: Susanna Terracini and Jung-chen Wei, Volume 34,Number 6, June 2014

- Symmetry and Perturbation Theory: Proceedings Of The International Conference SPT 2004 Cala Genone, Italy, 30 May–5 June 2004, Editors: Giuseppe Gaeta, Barbara Prinari, Stefan Rauch-Wojciechowski, Susanna Terracini, *World Scientific* (2005)
- Analisi matematica. Dal calcolo all'analsi Vol. 1 (di M. Conti, D.L. Ferrario, S. Terracini e G. Verzini) *Apogeo* (2006).
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