

Ian SCHINDLER

Université de Toulouse 1, Capitole

CeReMath

1, Esplanade de l'Université

31080 Toulouse

email : ian.schindler@ut-capitole.fr

Born November 1, 1955 in Los Angeles

Maître de Conférence, HDR, classe exceptionnelle

Experience

1995-present	UNIVERSITY OF TOULOUSE 1, CAPITOLE. MAÎTRE DE CONFÉRENCE.
1994-95	UNIVERSITY OF TOULOUSE 1, CAPITOLE. ATACHÉ TEMPORAIRE D'ENSEIGNEMENT ET DE RECHERCHE.
1993-94	ÉCOLE NORMALE DE LYON. ATACHÉ TEMPORAIRE D'ENSEIGNEMENT ET DE RECHERCHE.
1992-93	UNIVERSITY PARIS IX, DAUPHINE. CHATEAUBRIAND FELLOW.
1978-86	TENNIS PRO.

Education

2007	UNIVERSITY OF TOULOUSE 1, CAPITOLE. HABILITATION THESIS.
1992	UNIVERSITY OF CALIFORNIA, IRVINE. PHD.
1988	UNIVERSITY OF CALIFORNIA, IRVINE. MASTERS IN APPLIED MATH.
1977	UNIVERSITY OF CALIFORNIA, LOS ANGELES. B.A. PURE MATHEMATICS.

Research Activities

2003-17	INVITED SEMINARS IN MATHEMATICS. Indian Institute of Science, Bangalore. University of Tunis. University of Pau. University of West Bohemia Czech Republic. Uppsala, Sweden. Indian Institute of Technology, Delhi. TIFR, Bangalore, India. University of Rostock, Germany. Schrödinger Institut, Vienna.
2003-2023	CONFERENCE TALKS IN MATHEMATICS. CIRM (2023), Flagstaff (2018), Orlando (AIMS 2016), Jaca (2014). Madrid (AIMS 2014). Flagstaff (2012). Jaca (2010). Boretice (2010). Dresden (2010). Jaca (2008). WCNA, Orlando (2008). AIMS Conference Poitiers (2006). The Baltic Sea Conference on Analysis and Applications (2003).
2012-20	TALKS IN BIOPHYSICAL ECONOMICS. Escuela Superior de Economía of Instituto Politécnico Nacional Mexico (keynote, 2020), ASPO France (2019, 2017). Toulouse School of Economics (2017). Écopôle de Vélignes (2016), Festival des Possibles, Fronsac (2015). Université d'été du revenu de base, Coulounieix-Chamiers (2014). Festival des Possibles, St. Germain de la Rivière (2014). The Shift Project, Paris (2012). EEM12, Florence (2012).
2006-2019	CO-CONFERENCE COORGANIZER. Conference in honor of Peter Takáč's 60th birthday Toulouse (2019). Cocompact embeddings and profile decompositions, TIFR-CAM Bangalore (2012). Conference in honor of Jacqueline Fleckinger, Toulouse (2006).
2014-2023	EDITORIAL BOARDS. Frontiers in Energy (2014-2020). Biophysical Economics and Resource Quality (since 2016). EDITOR. Proceedings of cocompact embeddings conference. REFEREE. Boundary Value Problems, Journal d'Analyse Mathématique, Journal of Mathematical Physics, Rostocker Math. Kolloq., Math. Programming (Series A), AIMS proceedings, Nonlinear Analysis, Jaca Proceedings.
2000-03	CO THESIS ADVISOR FOR NASREDDINE MEGREZ. ▷ <i>Étude de Certains Problèmes Elliptiques et Sous Elliptiques Nonlinéaires Sur Des Domaines Non Bornés.</i>

Affiliations

since 2017 ASPO FRANCE.
since 2007 INSTITUT DE MATHÉMATIQUE DE TOULOUSE.
since 2007 TOULOUSE SCHOOL OF ECONOMICS.
since 1977 FRIENDS OF THE SCHINDLER HOUSE.

Publications

In economics:

1. Garcia, L; Illig, A; Schindler, I; Understanding the oil cycle to design the future economy, *Biophysical Economics and Sustainability* (2020), <https://doi.org/10.1007/s41247-020-00081-4>.
2. Schindler, J.; Schindler I.; Strategies for an economy facing energy constraints. In: *Physical Limits to Economic Growth: Perspectives of Economic, Social, and Complexity Science* (2018). Routledge, London.
3. Schindler, I.; An improved empirical model for oil prices, *Peak Oil Barrel* (2017), <http://peakoilbarrel.com/an-improved-empirical-model-for-oil-prices/>.
4. Illig, A.; Schindler, I.; Oil extraction, economic growth and oil price dynamics, *BioPhysical Economics and Resource Quality* **2** (2017) 1, <http://dx.doi.org/10.1007/s41247-016-0016-6>.
5. Schindler, I.; An empirical model for oil prices and some implications, *Peak Oil Barrel* (2016), <http://peakoilbarrel.com/empirical-model-oil-prices-implications/>.
6. Schindler, I.; Dysfunctional oil markets increase the probability of a deflationary debt spiral, *TSE debate forum* (2015).
7. Schindler, I.; Tendances économiques et espoir pour le climat, *TSE debate forum* (2015).
8. Schindler, I., Implications of the Ayres Warr model of economic production: an introduction, *The Oil Drum*, (2008) <http://www.theoil Drum.com/node/5378>.

In mathematics:

1. Schindler, I., Tintarev, C. Existence in the nonlinear Schrödinger equation with bounded magnetic field. *Nonlinear Differ. Equ. Appl.* **29**, 33 (2022), <https://doi.org/10.1007/s00030-022-00763-6>.
2. Bégout P.; Schindler I.; On a Stationary Schrödinger Equation with Periodic Magnetic Potential, *RACSAM*, **115:72** (2021), <https://rdcu.be/cgiCM>.
3. Schindler I.; Tintarev C.; Compactness and ground states for the affine p-laplacian, *PAFA* **5** (2020), pp. 1237–1247, <http://www.yokohamapublishers.jp/online2/oppafa/vol5/p1237.html>.
4. Schindler I.; Tintarev C.; Compactness and ground states for the affine laplacian, *Calc. Var. and PDE* **48** (2018).
5. Schindler I.; Tintarev C.; Compactness and ground states for the affine p-laplacian, *PAFA* to appear.
6. Schindler I.; Tintarev C.; Compactness and ground states for the affine laplacian, *Calc. Var. and PDE* **48** (2018).
7. Giacomoni J.; Schindler I.; Takáč P., Singular quasilinear elliptic systems and Hölder regularity, *Advances in Differential Equations* **20** (2015), pp. 259–298.

8. Schindler I.; Tintarev C., The limiting Sobolev-Dirac inequality. *Rostock Math. Kolloq.* **68** (2013), pp. 3–12.
9. Giacomoni J.; Schindler I.; Takáč P., Singular quasilinear elliptic systems and Hölder regularity, *C. R. Math. Sci. Paris.* **350** (2012), pp. 383–388.
10. Kaur, Batia Summit; Schindler, I.; Sreenadh, K., On uniform estimates and global multiplicity of solutions for a quasilinear elliptic equation, *Advances in Math. Sci. and App.* **21** (2011), pp. 133–154.
11. Dràbek, P.; Schindler I.; Positive solutions for the p-laplacian with Robin boundary conditions in irregular domains, *App. Math. Letters.* **24** (2011), pp. 588–591.
12. Schindler, I. Quelques contributions à l'étude de quelques problèmes à défaut de compacité. Thèse d'Habilitation à Diriger les Recherches, Université de Toulouse 1.
13. Schindler, I.; Tintarev, K., Semilinear equations on fractal blowups, *J. Math. Mod. Alg.* **352** (2009), pp. 57–64.
14. Giacomoni J.; Schindler I.; Takáč P., Sobolev versus Hölder local minimizers and existence of multiple solutions for a singular quasilinear equation, *Ann. Scuola Norm. Sup. Pisa Cl. Sci.* **VI** (2007), 117–158.
15. Schindler, I.; Tintarev, K., Mountain pass solutions to semilinear problems with critical nonlinearity, *Discrete Contin. Dyn. Syst. (2007), suppl.*
16. Schindler, I.; Tintarev, K., Semilinear subelliptic problems without compactness on Lie groups, *NoDEA Nonlinear Differential Equations Appl.* **11** (2004), 299–309.
17. Biroli, M.; Schindler, I.; Tintarev, K., Semilinear equations on Hausdorff spaces with symmetries, *Rend. Accad. Naz. Sci. XL Mem. Mat. Appl. (5)* **27** (2003), 175–189.
18. Schindler, I.; Tintarev, K., An abstract version of the concentration compactness principle, *Revista Mat. Complutense* **15** (2002), 1–20.
19. Schindler, I.; Tintarev, K., A Nonlinear Schrödinger equation with external magnetic field, *Rostocker Math. Kolloq.* **56** (2002), 49–54.
20. Schindler, I.; Tintarev, K., An abstract version of the concentration compactness principle. Proceedings of the Third World Congress of Nonlinear Analysts, Part 5 (Catania, 2000), *Nonlinear Anal.* **47** (2001), 3531–3536.
21. Schindler, I.; Tintarev, K. Abstract concentration compactness and elliptic equations on unbounded domains. Nonlinear analysis and its applications to differential equations (Lisbon, 1998), 369–380, *Progr. Nonlinear Differential Equations Appl.*, **43** Birkhäuser Boston, Boston, MA, 2001
22. Schindler, I.; Tintarev, K. Semilinear elliptic problems on unbounded domains. A. Ioffe, S. Reich, I. Shaffrir (eds), Calculus of variations and differential equations (Haifa, 1998), 210–217, *Chapman & Hall/CRC Res. Notes Math.*, **410**, Chapman & Hall/CRC, Boca Raton, FL, 2000.
23. Bokanowski, O.; Schindler, I.; Zidani, H. On the minimization of the energy of a free-electron gas with constrained density function. *Nonlinear Anal.* **35** (1999), **8**, Ser. B: Real World Applications, 1073–1090.

24. Schindler, I.; A nonlinear Schrödinger equation defined on the whole space. Reaction diffusion systems (Trieste, 1995), 319–333, *Lecture Notes in Pure and Appl. Math.*, 194, Dekker, New York, 1998
25. Schindler, I.; A critical value function and applications to semilinear elliptic equations on unbounded domains. *Nonlinear Anal*, **24** 6 947–949, 1995.
26. Schindler, I.; A critical value function and applications to translation invariant semilinear elliptic equations on unbounded domains. *Differential and Integral Eqns*, **8** 813–828, 1995.
27. Schindler, I.; Qasilinear elliptic boundary value problems on unbounded cylinders and a related mountain pass theorem. *Arch. Rat. Mech. and Anal.*, **120** 363–374, 1992.