

## CURRICULUM VITAE

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### Personal data

Born 1967.

Married, four children.

French citizenship.

### Positions held

2018 – 2019 Delegation to CNRS.

2018 John von Neumann Visiting Professorship, *Technische Universität München*.

2013 – 2017 Deputy Director of the Math. Institut of the CNRS.

2007 – : Professor, *Paris-Est Créteil University*.

2010 – 2011 Delegation to CNRS for six months (research project).

1995 – 2007 Maître de conférences, *Cergy-Pontoise University*.

2005 Delegation to CNRS (six months).

2001 – 2002 Delegation to CNRS.

### Education

2003 Habilitation, Cergy-Pontoise University.

1995 PHD, Paris-Sud University (supervisor Patrick Gérard).

1987 – 1992 École Normale Supérieure (Ulm).

### National organisation activities

- 2019– : Member of the board of the *Fonds de dotation de l'Institut Henri Poincaré*
- 2019– : Member of the board of the *Société Mathématique de France*.
- 2018– : Member of the board of the *Centre international de rencontres mathématiques* (Cirm), Luminy, France.
- 2013 – 2017 Scientific Deputy Director of the *National Institute of Mathematical Sciences and their Interactions* (Insmi), CNRS. In charge of the math laboratories (50 research and service units, 13 research federations, 25 research networks and 3 service networks), and of the communication of the Institute.
- 2011 – 2013 In charge of the finance of the French Mathematical Society, member of the Administrative Board of the SMF.
- 2001 – 2006 and 2011 – 2013 : Member of the section 25 (Mathematics) of the french National Council of University (CNU).
- 2013 Member of the national committee for bonus (PEDR) attribution.
- 1995– : Member of hiring committees.

### Local organisation activities

- 2020 - : Member of the *Conseil de laboratoire* of the CNRS unit UMR 8050. Correspondant of the UMR 8050 for international development for University Paris Est.
- 2008 – 2012 Head of the Math Department (University Paris-Est Créteil).
- 2010–2013 Elected member of the council of the Science Faculty (University Paris-Est Créteil).
- Elected member of the department council : 1999-2001 (Cergy-Pontoise University).
- Elected member of the lab council : 1998-2003 and 2005-2007 in Cergy-Pontoise University, 2010-2014 in University Paris-Est Créteil.
- 2009 – 2010 In charge of the first year of the Math-Info cursus (University Paris-Est Créteil).
- 1995 – 2000 In charge of the preparation to the Capes, the national hiring exam for secondary school teachers (Cergy-Pontoise University).

## Supervision activities

- PhD Thesis.  
2017 – : Sami Siraj-Dine, with Éric Cancès and Antoine Levitt.  
2013 – 2016 Victor Chabu (now post-doc in Sao Paulo).  
2010 – 2014 Lysianne Hari, with Thomas Duyckaerts (now Maître de Conférence at the University of Besançon).
- Master Thesis.  
2013 Chieh-Lei Wong, *On the lack of compactness on stratified Lie groups* (arXiv:1401.1978v2).  
2010 Lysianne Hari, *Autour de l'existence de solutions pour une équation de Schrödinger non linéaire non autonome*, with Thomas Duyckaerts.  
2010 Cong Tai Dinh, *Microlocal analysis on the Heisenberg group*, with Sandrine Grellier.  
2007 Dimbiniaina Rakotovo, *Estimations de résolvante pour des opérateurs de Schrödinger semi-classiques*.  
2001 Anne-Cécile Dirheimer, *Opérateurs pseudodifférentiels et mesures semi-classiques*.

## Editorial activities

- 2019 – : Member of the Editorial board of the *Bulletin & Mémoires de la SMF*
- 2018 – : Member of the Editorial board of *Documenta Mathematica*.

## Grants, awards and expertise activities

- Nominated as TUM Ambassador in 2019 by the Technische Universität München.
- 2020 : co-PI of the project *Quantum limits for sub-elliptic operators* funded by the Leverhulme Trust (PI Véronique Fischer).
- 2019 & 2020 : PI du projet 80—Prime *Algorithms in Quantum Molecular Dynamics* (link to webpage).
- Expert for Foundations: *L'Oreal* (2020), *Sephora Berribi price* (2019), *Initiative Paris Seine* (2019), *Labex Cimi* (2020).
- Expert for national agencies: DFG (2017), EPSRC (2016), Croatian Science Foundation (2011).

## Teaching activities

- Master and undergraduate courses for students in Mathematics at the University of Cergy-Pontoise and the University Paris-Est Créteil.
- Mathematics for students in other sciences (Biology, Chemistry, Physics, Economics) at the University Paris-Est Créteil.
- Training courses for preparation to the French national exams – Capes and Agrégation – for recruiting secondary schools teachers (University of Cergy-Pontoise).
- Participation to the animation cell of the orientation program for first year students in Sciences (University Paris-Est Créteil).
- Doctoral Course at Ritsumeikan University Ritsumeikan, Kyoto (October 2010).
- Participation to a lifelong training session for professors of *classes préparatoires* (April 2014).
- Master lecture at Technische Universität München (Oct.-Dec. 2018).
- Master class in the summer school *MasterKesm* of the Henri Lebesgue Semester “Mathematical Physics and Geometry” June 29 - July 1 (cancelled).

## Popularisation activities

- 2019– : Head of the *Scientific Culture Committee* of the Institut Henri Poincaré.
- 2018 – : Head of one of the scientific advisory groups in charge of the realization of the permanent math exhibition to be held in the *Institut Henri Poincaré*.
- 2013 – 2017 : In charge of the *Scientific News* section of the *Letter of Insmi* (CNRS).
- 2016 : *Les mille paysages de la géométrie algébrique*, diffusion article published in *CNRS Le Journal*, with Pétronille Danchin and François Charles.
- 2010–2012 : Membre of the committee *Faites de la Science*, Paris-Est Créteil University.
- 2007–2013 : Introduction conference for secondary school students before they attend conferences of the SMF - BNF cycle “Un texte, un mathématicien” (talks of J.-Y. Chemin about Leray in 2007, C. Soulé about Pascal’s triangle in 2008 and P. Gérard about d’Alembert in 2013).
- 2011 : Conference for high school students of the Academy of Créteil, *From chemistry to mathematics through quantum mechanics : a walk in the world of molecules*.

### Organisation of research events and seminars

- 2019 – : Member of the Scientific committee of the AMS-EMS-SMF Conference (Grenoble July 2021).
- 2018 – : Member of the Program Committee of the *Forum des jeunes mathématiciennes*.
- 2016 : Member of the scientific committee of the *Congrès de la SMF* (national event), member of the organisation committee of two sessions, June 6-10, 2016.
- 2013 : Organisation with Frédéric Charve and Raphaël Danchin of a conference in honor of Colette Guillopé.
- 2007 – 2016 : Organisation with S. Nonnenmacher of the Seminar *Spectral Problems in Mathematical Physics* at the Henri Poincaré Institut (three talks each month), *link to the website of the seminar*.
- 2008 – 2012 : Organisation of the P.D.E.'s workshop of Créteil University (monthly).
- 2008 : Organisation with Mathieu Lewin of a conference at Cergy-Pontoise University in the honor of Vladimir Georgescu.
- 2006 – 2007 : Organisation of the *Thematic Days of Cergy* (4 talks in one day, four times a year) and of the Mathematical-Physice workhop of Cergy-Pontoise University with Mathieu Lewin (weekly).
- 2003 – 2004 : Organisation with Zindine Djadli of the *Séminaire Jeunes* of Cergy-Pontoise University for master and Phd students.

# Publications

## Publications in peer-reviewed journals

- [1] C. Fermanian Kammerer, A. Joye. Nonlinear quantum adiabatic, to appear in *Nonlinearity*.
- [2] V. Chabu, C. Fermanian Kammerer, F. Macia. Wigner measures and effective mass theorems, to appear in *Annales Henri Lebesgue*.
- [3] C. Fermanian Kammerer, V. Fischer. Semi-classical analysis on H-type groups, *Sci. China Math.* **62** (2019), p. 1057-108.
- [4] C. Fermanian Kammerer, V. Fischer. Defect measures on graded lie groups, to appear in the *Annali della Scuola Normale Superiore di Pisa*.
- [5] C. Fermanian Kammerer, C. Lasser: An Egorov Theorem for avoided crossings of eigenvalue surfaces, *Comm. in Math. Physics*, **353** (2017), p. 1011-1057.
- [6] C. Fermanian Kammerer, F. Méhats: A kinetic model for the transport of electrons in a graphen layer, *Journal of Computational Physics* **327** (2016).
- [7] H. Bahouri, C. Fermanian Kammerer, I. Gallagher: Dispersive estimates for the Schrödinger operator on step 2 stratified Lie Groups, *Analysis and PDEs*, **9** (2016), no. 3, p. 545-574.
- [8] N. Anantharaman, C. Fermanian Kammerer, F. Macià: Long-time dynamics of completely integrable Schrodinger flows on the torus, *Amer. J. Math.* **137** (2015), no. 3, p. 577-638.
- [9] A. Atallah, C. Fermanian Kammerer: Microlocal defect measures for a degenerate thermoelasticity systems, *Journal of the Institute of Mathematics of Jussieu*, **13** (2014), p. 145-181.
- [10] C. Fermanian Kammerer, P. Gérard, C. Lasser: Wigner measure propagation and Lipschitz conical singularity for general initial data, *Arch. Ration. Mech. Anal.* **209** (2013), 1, p. 209-236.
- [11] R. Carles, C. Fermanian Kammerer: A nonlinear Landau-Zener formula, *J. Stat. Phys.* **152** (2013), 4, p. 619-656.
- [12] H. Bahouri, C. Fermanian Kammerer, I. Gallagher: Refined Inequalities on Graded Lie Groups. *C. R. Acad. Sci. Paris.* **350**, Série 1, p. 393-397 (2012).
- [13] C. Fermanian Kammerer, C. Lasser: Single switch surface hopping for molecular dynamics. *J Math. Chem.* (2012) **50**: 620–635.
- [14] H. Bahouri, C. Fermanian Kammerer, I. Gallagher: Phase space analysis on the Heisenberg group. *Astérisque*, **345** (2012).
- [15] R. Carles, C. Fermanian Kammerer: A Nonlinear Adiabatic Theorem for Coherent States. *Nonlinearity*, **24** (2011) p. 1-22.
- [16] R. Carles, C. Fermanian Kammerer: Nonlinear coherent states and Ehrenfest time for Schrodinger equation. *Comm. Math. Phys.*, **301**, 2 (2011), p. 443-471.
- [17] C. Fermanian Kammerer, V. Rousse: Semi-classical analysis of a conjoint crossing of three symmetric modes. *Methods Appl. Anal.*, **17**, 2 (2010), p. 137–163.
- [18] T. Duyckaerts, T. Jecko, C. Fermanian Kammerer: Degenerated codimension 1 crossings and resolvent estimates, *Asympt. Analysis*, **3-4**, p. 147-174 (2009) .
- [19] R. Carles, C. Fermanian Kammerer, N. Mauser, H.-P. Stimming: On the time evolution of Wigner measures for Schrödinger equations. *CPAA*, **8**, 2, p. 559-585 (2009).
- [20] H. Bahouri, I. Gallagher, C. Fermanian Kammerer: Analyse de l'espace des phases et calcul pseudodifférentiel sur le groupe de Heisenberg. *C. R. Acad. Sci. Paris.* **347**, Série 1, p. 1021-1024 (2009).
- [21] C. Fermanian Kammerer, C. Lasser: Propagation through generic level crossings: a surface hopping semigroup. *SIAM J. of Math. Anal.* , **140**, 1, p. 103-133 (2008).

- [22] C. Fermanian Kammerer, C. Lasser: Single switch surface hopping for molecular dynamics with transitions. *Journal of Chemical Physics*, **128**, 144102 (2008).
- [23] C. Fermanian Kammerer, V. Rousse: Resolvent estimates for a Schrödinger operator with matrix-valued potential presenting eigenvalue crossings. Application to Strichartz estimates, *Comm. in Part. Diff. Eq.* **33**, 1, p. 19-44 (2008).
- [24] C. Fermanian Kammerer: Normal forms for conical intersections in quantum chemistry, *Math. Phys. Elect. Jour.*, **13**, N° 4 (2007).
- [25] C. Fermanian Kammerer: Analyse à deux échelles d'une suite bornée de  $L^2$  sur une sous-variété du cotangent. *C. R. Acad. Sci. Paris.* **340**, Série 1, p. 269-274 (2005).
- [26] C. Fermanian Kammerer: Semiclassical analysis of generic codimension 3 crossings. *Int. Math. Res. Not.* **45**, p.2391-2435 (2004).
- [27] A. Atallah-Baraket, C. Fermanian Kammerer : High frequency analysis of solutions to the equation of viscoelasticity of Kelvin-Voigt. *J. Hyperbolic. Differ. Equ.* **1**, 4, p.789-812 (2004).
- [28] C. Fermanian Kammerer: A non commutative Landau-Zener formula, *Math. Nach.* 271, p. 22-50 (2004).
- [29] C. Fermanian Kammerer: Semi-classical analysis of a Dirac equation without adiabatic decoupling, *Monat. fur Math.* **142**, 4, p. 281-313 (2004).
- [30] C. Fermanian Kammerer, P. Gérard: A Landau-Zener formula for non-degenerated involutive codimension three crossings, *Ann. Henri Poincaré*, **4**, p. 513-552 (2003).
- [31] C. Fermanian Kammerer: Wigner measures and molecular propagation through generic energy level crossings, *Reviews in Mathematical Physics*, **15**, p. 1285-1317 (2003).
- [32] R. Carles, C. Fermanian Kammerer, I. Gallagher: On the role of quadratic oscillations in non linear Schrödinger equation. *J.F.A.*, **203**, 2, p.453-493 (2003).
- [33] C. Fermanian Kammerer, C. Lasser: Wigner measures and codimension two crossings. *Jour. Math. Phys.* **44**, 2, p. 507-527 (2003).
- [34] C. Fermanian Kammerer, P. Gérard: Mesures semi-classiques et croisements de modes. *Bull. Soc. math. France*, **130**, 1, p. 145-190 (2002).
- [35] C. Fermanian Kammerer, P. Gérard: Une formule de Landau-Zener pour un croisement non dégénéré et involutif de codimension 3. *C. R. Acad. Sci. Paris.* **335**, Série 1, p. 915-920 (2002).
- [36] C. Fermanian Kammerer: Propagation of concentration effects near shock hypersurfaces for the heat equation. *Asymptotic Analysis*, **24**, p. 107-141 (2000).
- [37] C. Fermanian Kammerer, F. Merle, H. Zaag: Stability of the blow-up profile of non-linear heat equations from the dynamical system point of view. *Math. Ann.* **317**, p. 347-387 (2000).
- [38] C. Fermanian Kammerer, H. Zaag: Boundedness till blow-up of the difference of two given solutions of non linear heat equation. *Nonlinearity*, **13**, p. 1189-1216 (2000).
- [39] C. Fermanian Kammerer: Mesures semi-classiques deux-microlocales, *C. R. Acad. Sci. Paris*, **331**, Série 1, p. 515-518 (2000).

## Books or chapter of books

- [41] V. Chabu, C. Fermanian Kammerer and F. Maci. Semiclassical analysis of dispersion phenomena (arXiv:1803.08771), Analysis in Developing Countries, Springer.
- [42] N. Anantharaman, F. Faure, C. Fermanian Kammerer: Le chaos quantique. Actes des journées X-UPS 2014, Éditions de l'Ecole Polytechnique.
- [43] C. Fermanian Kammerer, P. Gérard: Two scale Wigner measures and the Landau-Zener formulas. *Multiscale Methods in Quantum Mechanics*, 59–68, Trends Math., Birkhäuser Boston, Boston, MA, 2004.

## Proceedings

- [44] C. Fermanian Kammerer: Propagation des mesures de Wigner à travers un croisement de codimension 1 dégénéré. Séminaire Equations aux Dérivées Partielles 2008–2009, Mai 2009, Ecole Polytechnique.
- [45] C. Fermanian Kammerer, C. Lasser: An algorithm for quantum propagation through electron level crossings. Exposé au colloque EDP de Forges-les-Eaux, juin 2005.
- [46] C. Fermanian Kammerer, P. Gérard: Une formule de Landau-Zener pour un croisement générique de codimension 2. Séminaire Equations aux Dérivées Partielles 2001–2002, Exposé N°21, Ecole Polytechnique.
- [47] C. Fermanian Kammerer, P. Gérard: Mesures semi-classiques et croisements de modes. Séminaire Equations aux Dérivées Partielles 1999–2000, Exposé N°21, Ecole Polytechnique.
- [48] C. Fermanian Kammerer, P. Gérard: Landau-Zener formula for semi-classical measures. *Dispersive Transport Equations and Multiscale Models, The IMA Volumes in Mathematics and its Applications*, vol.136, N. BenAbdallah, A. Arnold, P. Degond, I. Gamba, R.T. Glassey, C.D. Levermore, Springer, p. 167-178, 2004.

## Preprint

- [49] E. Cancès, C. Fermanian Kammerer, A. Levitt, S. Siraj-Dine. Coherent electronic transport in periodic crystals (arXiv: 2002.01990).
- [50] C. Fermanian Kammerer, C. Lasser, D. Robert. Herman-Kluk propagator for systems presenting codimension 1 crossings (arXiv:2001.07484).
- [51] C. Fermanian Kammerer, V. Fischer. Quantum evolution and sub-laplacian operators on groups of Heisenberg type (arXiv:1910.14486).



# Invitations

## Collaboration visits

- Invitation as Research Member for the programm *Microlocal Analysis* of the MSRI (Berkeley) during the fall of 2019 (1 month stay - talk).
- Australian National University (Camberra), March 10-23. 2018.
- Technische Universität, München, November 2-4, 2016.
- University of Leicester, February 17-19, 2016.
- Madison University, May 2-8, 2016.
- Invitation at the University of Bath, June 2016.
- Polytechnic University of Madrid, ETSI Navales, December 9-12, 2014.
- Bistol University, March 2-4, 2012.
- Wolfgang Pauli Institute, Vienne, Oct. 17-21, 2011.
- Poncelet Institut, Moscou, Nov. 21-25, 2011.
- Ritsumeikan University, Kyoto and Tokyo University, Oct. 18-31, 2010.
- Technische Universität, München, 28 February – 5 March 2011.
- Faculté des Sciences, Tunis University, March 2009 (1 week).
- Freie Universität Berlin, August 2007 (1 week).
- Faculté des Sicences, Tunis University, April 2006 (10 days).
- Freie Universität Berlin, Sept 2005 (1 week).
- M.S.R.I., Berkeley, 2003 (1 week).
- Tech. Institut Munchen, 2002 (1 week).
- Faculté des Sciences, Tunis University, 2001 (1 week).

## Invited conferences

- “Semi-classical analysis meets Numerical analysis (SCA mets NA)”, Bath, June 14-18, 2021 (to be hold).
- “Solid Math 2020”, Marne-la-Valle on July 1-3, 2020 - cancelled.
- “On nonlinear PDEs: from physical to abstract framework”, Institut Mittag-Leffler, June 22-26, 2020 - cancelled.
- “Journes EDP”, Obernai on June 8-12, 2020 - cancelled.
- “Multi-scale Problems in Mathematical Physics”, Angers, May 11-15, 2020 - cancelled.
- “Mathematics of topological insulators”, AIM Workshop, Columbia University (New-York), March 16-20, 2020 - cancelled.

- “Mathematical and Numerical Analysis of Electronic Structure Models”, Suzhou (China) on June 10-16, 2019.
- “Fudan Conference on Microlocal Analysis and Applications”, Fudan University (China) on June 17-21, 2019.
- “Mathematical Physics at the Crossings”, Virginia Tech (US), May 20-24, 2019.
- “Mathematical Methods in Quantum Molecular Dynamic”, Oberwolfach, April 21-27, 2019.
- “Workshop on microlocal analysis and its applications in spectral theory, dynamical systems, inverse problems, and PDE”. Murramarang, Australia, March 18-23, 2018.
- “Noncommutative Analysis and Partial Differential Equations”, Imperial College London, April 11-15, 2016.
- “Spectral Theory and Mathematical Physics”, Cergy-Pontoise University, June 21-24, 2016.
- “Mathematical Methods in Quantum Molecular Dynamics”, Oberwolfach, May 31-st - June 6-th, 2015.
- “Asymptotic analysis of dispersive partial differential equation”, Pienza, Oct. 27-31, 2014.
- “Microlocal Days 4, Noncommutative Harmonic Analysis and Probability”, Imperial College London, March 5-th, 2014.
- “Journées X-UPS”, Ecole Polytechnique, April 28-29, 2014.
- “Rencontres Nosevol 3”, April 7-9, 2014, Rennes.
- “*Conical Intersections in Mathematical Physics*”, IHP, May 29-31, 2013.
- “*Régimes Asymptotiques pour l'équation de Schrödinger*”, CIRM, Sept. 2012.
- “*Mathematical Methods in Quantum Molecular Dynamics*”, Banff (Canada) April 28th – May 3rd, 2013.
- Workshop RAS, CIRM, Sept. 20 - 24, 2010.
- “Journées PEPS”, Université de Bordeaux 1, Nov. 16-17, 2010.
- *Microlocal Methods in Mathematical Physics and Global Analysis*, Tübingen, June 14-18, 2011.
- Conference of the GDR “Dynamique Quantique”, Institut de Physique Nucléaire, Lyon, Sept. 7-9, 2009.
- “Math.Methods for Ab Initio Quantum Chemistry”, Nice, Oct. 15-16, 2008.
- “Journées Semi-Classiques”, Cergy-Pontoise, Jan. 2008.
- “Partial Differential Equations and Applications”, Hammamet, March 2008.
- Conference in honor of Professor Buslaev, Saint-Petersbourg, June 29th. - July 2nd, 2007.
- “Classical and Quantum Mechanical Models of Many-Particle Systems”, Obervolfach, Dec. 3 - 9, 2006.
- Conference “Equations aux Dérivées partielles”, Forges-les Eaux, June 6-10, 2005.
- “Journée mécanique quantique et analyse semi-classique”, Lille, Dec. 5th, 2003.
- “Phase Space Analysis of Partial Differential Equations”, Bertinoro, Nov. 12-15, 2003.

- “Classical and Quantum Mechanical Models of Many-Particle Systems”, Oberwolfach, Nov 23-29, 2003.
- “Journées d’Orléans en Homogénéisation”, Oct. 2003.
- Conference “WKB versus Wigner”, Erwin Schrödinger Institut, Vienne, Nov. 2001.
- Workshop “Plasmas et Tokamak à la Trappe” organised by Gilles Lebeau, 2001.
- Workshop “Mesures de Wigner”, Erwin Schrödinger Institut, Vienne, Feb. 2001.
- “High-frequency analysis in non-linear PDE’s”, CIRM, Luminy, April 2001.
- “Mesures de Wigner”, Cirm, Luminy, Feb. 1999.

### Other seminars and talks

- PDEs Seminar, Université de Rennes, June 18th, 2020 (visio).
- PDEs Workshop, Université Paris Nord, May 25th, 2020 (visio).
- Analysis seminar of the Institut Fourier, Université Grenoble Alpes, January 21st, 2020.
- PDEs seminar of the University Paris Saclay, November 7th, 2019.
- Analysis seminar of the Mathematical Institut of Toulouse, February 19th, 2019.
- Colloquium, Technische Universität München, February 6th, 2019.
- Colloquium, Tübingen Universität, November 30th, 2018.
- Seminar on Mathematical Physics, Tübingen Universität, November 29th, 2018.
- Oberseminar Analysis und Zufall, Ludwig Maximilian Universität & Technische Universität München, November 20th, 2018.
- Analysis seminar, Université d’Orléans, May 24th 2018.
- Betty B. Seminar (preparatory session to Bourbaki seminar), March 30th, 2018.
- Colloquium, Australian National University (Camberra), March 15th. 2018.
- Colloquium, Université de Nantes, October 5th 2017.
- PDE-s seminar, Université de Nantes, October 5th 2017.
- Presentation at the workshop *Analyse non-linéaire et EDP* (ENS and UPMC), Oct. 8th, 2016.
- French-Tunisian Seminar of P.D.E.s, Feb. 5-th, 2015.
- P.D.E.-s Seminar, University of Savoie, Feb. 12-th, 2015.
- Mathematical-Physics Seminar of the Institut Fourier, Grenoble, Jan. 28-th, 2014.
- Seminar in the PDE’s workshop, Créteil, Octobre 11th, 2012 and the PDE’s seminar of Paris 13, Jan. 25th, 2013.
- *Séminaire d’Analyse Paris-Londres*, Oct. 14th, 2011.
- Presentation at the *Steklov Institute*, Moscou, Nov. 22nd, 2011.
- Presentation at the *Journée de la recherche de l’UFR des Sciences*, UPEC, Dec. 8th, 2011.

- Presentation at Bristol University, March 2nd, 2012.
- Presentation at the Cermics, Ecole des Ponts et Chaussées, March 19th, 2012.
- PDE's seminar of Paris 13 and Paris 6-Paris 7, during the academic year 2010-11.
- PDE's seminar of Paris 11 University, Paris 13 and Institut Fourier (Grenoble) during the academic year 2009-10.
- X-EDP Seminar, Ecole Polytechnique, May 25th. 2009.
- Analysis Seminar of Nice, PDEs seminar of Rennes, Mathematical Physics and Geometry seminar of Paris 7 during the academic year 2006-07.
- PDEs seminar of Rennes, Bordeaux, of the Institut Fourier (Grenoble), and of the University of Lille, Seminar EPM (Orléans), seminar of PDEs and Numerical Analysis (Orsay) during the academic year 2005-06.
- PDEs seminar of Institut Fourier (Grenoble), 2004.
- PDEs seminar of Nantes University and of the Institut Fourier (Grenoble) during the academic year 2002-03.
- X-EDP Seminar, Ecole Polytechnique, 2002.
- Semi-classical Analysis seminar, l'Université Paris 11, 2002.
- Talks at the PDEs seminar of Rennes University and of Reims University during the academic year 2001-02.
- PDE's seminar of the LAGA (Paris XIII), 2001.
- X-EDP Seminar, Ecole Polytechnique, 2000.
- PDE's seminar of the Universities of Rennes and Paris-Sud, 1996-1997.