

CURRICULUM VITAE OF FRANÇOIS GOLSE

PROFESSIONAL EXPERIENCE

2006- Professor of mathematics at École polytechnique
2010-2016 Chairman of the Department of Mathematics
and 2021- at École polytechnique
2003- Distinguished University Professor
1994-1995 Member, Institute for Advanced Study, Princeton
1993-2006 Professor at Université Paris-Diderot (Paris 7)
1989-1993 Associate Professor at Université Paris-Diderot
1987-1989 Junior Researcher at CNRS

EDUCATION

1981-1986 Student at École normale supérieure (Paris)
1986 PhD at Université Paris 13 (Sorbonne Paris-Nord,
 advisor: C. Bardos)
1988 Habilitation (HDR) at Université Paris 7 (Paris-Cité)

HONORS/AWARDS

- Louis Armand Prize (Académie des Sciences, Paris, 1988)
- Claude-Antoine Peccot Lectures (Collège de France, 1993)
- Member of Institut Universitaire de France (1999-2004)
- SIAM Analysis of Partial Differential Equations Prize
(corecipient: Laure Saint-Raymond, Boston, 2006)
- Mme Victor Noury Prize (Académie des Sciences, 2006)

SELECTED ADDRESSES

07/2004 Plenary speaker at the European Congress of
 Mathematics (ECM04, Stockholm)
03/2006 Plenary speaker at the GAMM Annual Meeting
 (Gesellschaft für Angewandte Math & Mechanik)
07/2006 Plenary speaker at the SIAM Annual Meeting
 (SIAG PDE Prize lecture, Boston 2006)
08/2006 Invited speaker (PDE section) at the International
 Congress of Mathematicians (ICM06, Madrid)
06/2008 Plenary speaker, 12th International Conference on
 Hyperbolic Problems (HYP2008, Maryland)
07/2010 Harold Grad Lecture (27th International Symposium
 on Rarefied Gas Dynamics, Pacific Grove, California)
09/2018 Plenary speaker at the 50th Anniversary Symposium
 of the Japan Society of Fluid Mechanics (Osaka)

SELECTED ARTICLES

- [1] F. Golse, P.-L. Lions, B. Perthame, R. Sentis: Regularity of the Moments of the Solution of a Transport Equation. *J. of Funct. Anal.* **76**, (1988), 434–460.
- [2] F. Coron, F. Golse, C. Sulem: A Classification of Well-Posed Kinetic Layer Problems. *Comm. on Pure and Appl. Math.* **41**, (1988), 409–435.
- [3] C. Bardos, F. Golse, C.D. Levermore: Fluid Dynamic Limits of Kinetic Theory I: Formal Asymptotics Leading to Incompressible Hydrodynamics. *J. Stat. Phys.* **63**, (1991), 323–344.
- [4] C. Bardos, F. Golse, C.D. Levermore: Fluid Dynamic Limits of Kinetic Theory II: Convergence Proofs for the Boltzmann Equation. *Comm. on Pure and Appl. Math.* **46**, (1993), 667–753.
- [5] J. Bourgain, F. Golse, B. Wennberg: On the Distribution of Free Path Lengths for the Periodic Lorentz Gas. *Commun. Math. Phys.* **190**, (1998), 491–508.
- [6] C. Bardos, F. Golse, A. Gottlieb, N. Mauser: Mean Field Dynamics of Fermions and the Time-Dependent Hartree-Fock Equation. *J. de Math. Pures et Appl.* **82**, (2003), 665–683.
- [7] F. Golse, L. Saint-Raymond: The Navier-Stokes limit of the Boltzmann equation for bounded collision kernels. *Invent. Math.* **155**, (2004), 81–161.
- [8] F. Golse, C. Mouhot, T. Paul: On the Mean-Field and Classical Limits of Quantum Mechanics. *Commun. Math. Phys.*, **343**, (2016), 165–205.
- [9] F. Golse, T. Paul: The Schrödinger Equation in the Mean Field and Semiclassical Regime. *Arch. Rational Mech. Anal.*, **223** (2017), 57–94.
- [10] F. Golse, C. Imbert, C. Mouhot, A. Vasseur: Harnack Inequality for Kinetic Fokker-Planck Equations with Rough Coefficients and Application to the Landau Equation. *Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)* **XIX** (2019), 253–295.

EDITORIAL BOARDS

- Bulletin des Sciences Mathématiques (2001-; editor in chief 2013-)
- Communications in Mathematical Sciences (2002-)
- SIAM Journal on Mathematical Analysis (2003-2009)
- Czechoslovak Mathematical Journal (2006-2014)
- Kinetic and Related Models (2006-)
- Asymptotic Analysis (2012-)
- Journal de l'École polytechnique (2013-2024)
- EMS Surveys in Mathematical Sciences (2013-)

PHD SUPERVISIONS

- Laurent Desvillettes (1990, co-advisor: C. Bardos)
- Abdelghani Bellouquid (1995, co-advisor: C. Bardos)
- Laurent Dumas (1995)
- Stéphane Dellacherie (1998, co-advisor: R. Sentis)
- Christian Dogbé (1998)
- Laure Saint-Raymond (2000)
- Marie Doumic (2004, co-advisor: R. Sentis)
- Christophe Pallard (2004, co-advisor: F. Bouchut)
- Etienne Bernard (2009)
- Timofey Zakrevskiy (2015)
- Mikaela Iacobelli (2015, co-advisor: E. Caglioti)
- Laurent Lafèche (2019, co-advisor: S. Mischler)
- Nicolas Brigouleix (2021, co-advisor: D. Han-Kwan)
- Yuzhe Zhu (2022, co-advisor: C. Imbert)
- Immanuel Ben Porat (2022)