

Curriculum vitae

François RINCON

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◆ Personal details

- Born in Barbezieux (France) 11.12.1978
- Nationality: French

◆ Present Position

- CNRS research staff in astrophysics, Laboratoire d'Astrophysique de Toulouse-Tarbes, University of Toulouse (France).

◆ Research interests

- Computational astrophysical fluid dynamics, turbulence in fluids and plasmas, dynamo theory, solar and stellar physics, turbulence in accretion disks and galaxy clusters.

◆ Education and academic timeline

- *2007-* **CNRS research staff**, Laboratoire d'Astrophysique de Toulouse-Tarbes, University of Toulouse (France).
- *2005-07* **Postdoctoral research associate** in DAMTP, University of Cambridge (Leverhulme and Newton trusts).
- *2004* **PhD** in astrophysics and solar physics, Toulouse III University, defended on December 10th 2004. Supervisor: Prof M. Rieutord.
- *2001* **DEA** (Part three) in Astrophysics and Planetology, Paul Sabatier University of Toulouse, France (ranked 1st).
- *1998-00* **Graduate studies** with major in physics as *normalien* at École Normale Supérieure de Lyon, France.
- *1996-98* Classes préparatoires aux grandes écoles with major in physics and chemistry (PC*), Lycée Montaigne, Bordeaux, France.

◆ Publications

- See attached list.
- Peer-reviewing: *Astronomy & Astrophysics*, *Astrophysical Journal*, *New Journal of Physics*, *Physics of Fluids*, *Physical Review Letters*, *Physical Review E*, *Journal of Fluid Mechanics*.

◆ Invited scientist positions

- Institut Henri Poincaré program on dynamos, Paris, France (March 2009)
- KITP program on dynamo theory, UCSB, USA (June-July 2008)
- Academic visitor at Imperial College, London, UK (from September 2007)
- Academic visitor at NORDITA, Copenhagen, Denmark (November 2002).

◆ International Conferences, schools and workshops

- Wolfgang Pauli Institute workshop on astrophysical plasmas (Vienna, Austria, February 2009).
- Winter school on astrophysical and fusion plasmas (UCLA, USA, January 2009).
- International Newton Institute conference on "Structures and waves in anisotropic Turbulence" (Warwick, UK, November 2008)
- International dynamo conference (KITB, Santa Barbara, July 2008)
- Solar Physics workshop (CEA, Saclay, France, April 2008)
- PNST workshop (Obernai, France, March 2008)
- MAPP ANR workshop (Grenoble, France, March 2008)
- Winter school on plasma instabilities (UCLA, USA, January 2008).
- International workshop on MHD Laboratory Experiments for Geophysics and Astrophysics (Catania, Italy, October 2007).
- International workshop on Space Plasmas and Astrophysics (Meudon, France, September 2007).
- Winter school on plasma turbulence and transport (UCLA, USA, January 2007).
- International conference "Convection in Astrophysics" of the IAU (Prague, Czech Republic, August 2006).
- Summer school on "Stellar Fluid Dynamics and Numerical Simulation" (Aussois, France, October 2004).
- International Newton Institute conference "Magnetohydrodynamics in Stellar Interiors" (Cambridge, UK, September 2004).

- Workshop on “Numerical Simulations in Astrophysics” (IDRIS, Orsay, France, December 2003).
- French Astronomy and Astrophysics annual meeting (Bordeaux, France, June 2003).
- Workshop on “Numerical Simulations of stellar convection” (Meudon Observatory, France, June 2003).
- International conference “Asteroseismology across the HR diagram” (Porto, Portugal, July 2002).
- GDR Workshop on “Turbulence” (Nice Observatory, France, January 2002).
- Summer school on “Theories of turbulence” (CISM, Udine, Italy, September 2001).

◆ Seminars

- Dynamo theory program seminars, KITP, UCSB, USA (June-July 2008).
- Applied Mathematics seminar, University of Leeds, UK (March 2008).
- Plasma physics seminar, Imperial College, London, UK (September 2007).
- Fluid dynamics seminar, LadHyX, Ecole polytechnique, Paris, France (May 2007).
- Fluid dynamics seminar, DAMTP, Cambridge, UK (March 2007).
- Turbulence seminar, Imperial College, London, UK (January 2007).
- Astrophysics seminar, LATT/CESR, Toulouse, France (December 2006).
- Physics students seminar, ENS Lyon, France (December 2006).
- Astrophysics department (CRAL) seminar, ENS Lyon, France (December 2006).
- Physics department seminar, ENS Lyon, France (December 2006).
- LUTH seminar, Meudon Observatory, France (April 2006).
- DAMTP AFD Group seminar, Cambridge, UK (October 2005).
- Turbulence and acceleration seminar at CESR, Toulouse (January 2005).
- DAMTP AFD Group seminar, Cambridge, UK (June 2004).

◆ Observation service

- One week of spectropolarimetric survey of magnetic stars with the MUSICOS spectrograph at the Telescope Bernard Lyot (2005), Pic du Midi (France).

◆ Teaching and supervision

- Supervision of Master students during their research training period.
- Teaching assistant in thermodynamics, electronics, optics and astrophysics at undergraduate and french agregation level, Paul Sabatier University of Toulouse (2002-present).

- Teaching assistant in statistical physics, École Nationale Supérieure de l'Aéronautique et de l'Espace, Toulouse (2001).

◆ Computing skills

- Advanced Fortran 90, C, PERL and IDL programming, intensive parallel computing (MPI) on various architectures.
- Administration of Debian GNU/Linux systems.

◆ Languages

- French, English, some German.

◆ Miscellaneous

- Co-organizer of DAMTP Astrophysical Fluid Dynamics seminars (2006/2007).
- Lecturer during the general audience Science week, ENS Lyon (1999).