

CURRICULUM VITAE

Frédéric MILA

Born: 19 avril 1962 in Toulouse (France)
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Summary of career

- Since 2003 Full Professor at the Swiss Federal Institute of Technology (Ecole Polytechnique Fédérale) of Lausanne (Switzerland).
- 2000–2003 Full Professor at Lausanne University (Switzerland).
- 1993–2000 Research associate, CNRS (National Center for Scientific Research), Toulouse (France).
- 1991–1993 Post-doc with Professor H. Beck, Neuchâtel University (Switzerland).
- 1989–1991 Post-doc with Professor E. Abrahams, Rutgers University (USA).
- 1987–1989 Post-doc with Professor T. M. Rice, ETH-Zürich (Switzerland).

Education

- 1984–1987 PhD in Condensed Matter Physics with Professor J. Szeftel.
 - Title: “Theoretical contribution to the investigation of structural and vibrational properties of surfaces and interfaces”.
 - Laboratory : Nuclear Research Center, Saclay (France).
- 1983–1984 Advanced Degree of Solid State Physics (1st year of Graduate School) from Orsay University (Paris, France).
- 1980–1983 Ecole Polytechnique (Paris).
- 1980-1981 Military service.
- 1978-1980 Preparation to competitive exam to enter top technical universities (Lycée Louis-Le-Grand, Paris).
- 1978 Baccalauréat C (High School degree in Science), Toulouse (France).

Summary of research achievements

- Conducted research in several domains of condensed matter theory, including surface physics, high-temperature superconductors, and magnetism of strongly correlated materials.
- Keywords of current research interests: Strongly correlated electrons, Hubbard model, Heisenberg model, frustrated magnetism, spin liquids, orbital degeneracy, spin chains.
- 249 publications including 1 Science, 1 Nature Physics (News and Views), 48 Phys. Rev. Lett. and 1 Phys. Rev. X, totaling more than 6500 citations (h-index: 44).
- Co-editor of a book entitled "Introduction to Frustrated Magnetism" (Springer Series in Solid-State Sciences 164, Springer, 2011).
- Supervision of 22 post-docs and 17 graduate students (12 already successfully completed).
- Regular invited talks at international conferences and workshops (on average 6 per year over the last years, 141 altogether).
- Taught several undergraduate and graduate courses in theoretical and condensed matter physics since 2000.
- Director of a National Research Group on Molecular Conductors in France from 1996 to 2000.
- Member of the steering committee of the "Highly Frustrated Magnets" program of ESF (European Science Foundation) from 2005 through 2011.
- Member of the MaNEP (swiss National Center of Competence in Research on Materials with Novel Electronic Properties) since 2001.
- Organization of several summer schools and workshops, including a 3-week program of the ICTP (International Center of Theoretical Physics supported by UNESCO), Trieste (Italy) in 2007.
- President of the Doctoral Program in Physics of the CUSO (consortium of the universities of western Switzerland) from 2010 through 2012.
- Referee for Science, Nature Physics, Physical Review Letters, Physical Review B, Physics Letters, Europhysics Letters, European Physical Journal B.
- Associate editor of "The European Physical Journal B" between 2001 and 2008.
- Co-editor of "Europhysics Letters" between 2008 and 2015.
- Member of the editorial board of "Physical Review B" since 2014.
- Awarded in 2007 a "Chaire d'Excellence Pierre de Fermat", a competitive french program for visiting scientists.