

CURRICULUM VITAE

Pascal SIMON

Nationality : French

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Languages : French (mother tongue) ; English, Italian (actively) ; German (passively)

Education

- Nov. 2003 : Habilitation thesis at Joseph Fourier university, Grenoble.
April 1998 : Ph.D. at the university Paris XI-Orsay, France (with honors)
Title of the thesis : "From 2D frustrated spin systems to coupled minimal models"
Supervisor : Prof. B. Douçot
June 1994 : Master of Science in Theoretical Physics (with honors)
at the Ecole Normale Supérieure, Paris (directed by Prof. E. Brézin)

Positions held

- Since 09/2008 Full Professor at the university Paris-Sud (now Paris-Saclay)
09/2008-08/2013 Junior member of the Institut Universitaire de France
08/2006-08/2008 Part time visiting Professor at the university of Basel (in the group of D. Loss)
01/2003-08/2008 Assistant-professor at Joseph Fourier university, Grenoble, France
08/2002-12/2002 Research Associate at the university of Basel (with D. Loss)
09/2001-08/2002 Research Associate at Boston university (with I. Affleck).
09/2000-08/2001 Research Associate at the university of British Columbia, Vancouver (with I. Affleck).
09/1998-08/2000 Postdoctoral fellow at SISSA/ISAS, Trieste, Italy (with G. Mussardo).
09/1995-08/1998 PhD student at the LPTHE, university Paris VI-VII, France (with B. Douçot)
09/1994-08/1995 Military service at the CEA Saclay in experimental particles physics
in the OPAL experiment of the CERN (Geneve)

Scientific and teaching output

- Author of more than 150 scientific publications including 1 Science, 2 Nature Physics, 3 Nature Comm, 30 Phys. Rev. Letters. > 6800 citations, H=45 (source scholar)
- More than 80 invited oral presentations at conferences and workshops
- Organizer or co-organizer of 12 international workshops and schools
- Supervisor of 14 defended PhD thesis (plus 4 under way), 1 diplom arbeit and 17 master thesis.
- Referee for major scientific journals and international grant agencies. Outstanding APS referee (2024).
- Since 2003, regular teaching activities at undergraduate, graduate and doctoral level.

Research interests

General theoretical condensed matter physics with an emphasis on new emerging states. More specifically, I am interested in :

- New topological states of matter, Majorana fermions and their transport properties.
- Light-matter interactions in Cavity QED hybrid systems.
- Transport in correlated nano-systems, hybrids systems, etc.
- Correlation and disorder effects in low dimensional many-body systems.
- Quantum Spintronics, magnonics and spin decoherence.