

Short curriculum vitae

Personal information

Family name: TASTEVIN

Birth name: Geneviève

Year of birth: 1962

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URL for web site: <http://www.lkb.science/polarisedhelium/polarised-helium-and-quantum-fluids/>

Education

1981 – 85: Scholarship at the Ecole Normale Supérieure de Jeunes filles, Paris

June 1982: Master degree in Fundamental Physics (Université Paris 6, Licence et Maîtrise de Physique)

June 1983: Advanced studies in Atomic and Molecular Physics (Université Paris 6, DEA Physique Quantique)

July 1985: Nat.^{al} competitive certification examination for teaching in Physics (Agrégation de Physique).

1987: PhD thesis in Quantum Physics (Université Paris 6), Supervisor: M. Leduc, “*Polarized Helium-3: spin waves and gas liquefaction*”, <https://tel.archives-ouvertes.fr/tel-00011862/document>

Continuing education module: 1996-97, Biological and Medical Engineering (Faculty of Medicine St Antoine, Paris).

Positions

1981-1985 Civil servant in training at the ENS Paris

1985-1987 Teaching assistant at the ENS Paris

1987-1989 Assistant professor at Paris 6 University (later called UPMC, now part of Sorbonne Université)

1989 – Present: Permanent researcher at the C.N.R.S (CR1 level).

Scientific work

Theory and experiment: equilibrium and transport properties of spin-polarized quantum fluids at low temperature.

NMR studies of spin-polarized liquid helium-3 and isotopic helium mixtures.

Theory and experiment: helium optical pumping

Metastability exchange optical pumping in extreme conditions; infrared fibre laser sources; hyperpolarised gas production schemes.

In vivo lung imaging by NMR with hyperpolarized helium-3; pre-clinical applications.

Nonlinear NMR dynamics in highly magnetised classical liquids.

NMR and MRI methodology at very low magnetic field.

Hyperpolarisation of noble gases at high magnetic field.

Publications: 58 articles or reviews, 78 conference proceedings.

Contribution to scientific meetings: 182

Patents: 3

Organization of international meetings: 1 chair, 2 scientific committees, 2 local committees.

Collaborative projects, since 2000: 17, including 9 national programs (ACI: 2; GDR: 2; RTRA: 1; ANR: 1; DIM: 1; CNRS: 1), 3 bilateral programs (MAE: 2; ANR: 1), 5 European programs (FP5, RTD: 1; FP6, TRN: 2; FP6, Access: 1; FP7, COST: 1)

Supervision: 4 PhD students, 2 co-supervised PhD students, 5 hosted PhD students, 4 post-docs, 2 engineers.

Panels

Grant evaluation panels: 2 (Japan Society for the Promotion of Science, ANR)

Appointement panels: 7 (CNRS, ENS Paris, Collège de France, Université Paris-Sud)

Award panel: 1 (European Nicholas Kurti Science Prize, 2008 – 2017)