Short curriculum vitae

Personal information

Family name: TASTEVIN **Birth name:** Geneviève **Year of birth:** 1962

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Education

1981 – 85: Scolarship 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*

1996-97: Continuing education module, 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, now CRCH).

Scientific activities

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 in gas discharges at high magnetic field.

Scientific contributions

Publications: cf my scientific CV on HAL

Patents: 3

Organization of international meetings: 6

Collaborative projects, since 2000: 20

Supervision: 19

Panels (grant evaluation/appointment/award): 10