

Pierre Védrine

Education

Ph.D, Université Pierre et Marie Curie, Paris, 1990.

MD in Mechanical Engineering (Diplôme d'ingénieur), Ecole Nationale Supérieure d'Arts et Métiers (ENSAM), Paris, France, 1986

Employment

Scientist, CEA Saclay, 1990-present.

Selected professional activities

Project Manager, 11.7T-MRI magnet system for the "Iseult/Inumac project, 2005-present

Research Scientist, R&D on Nb₃Sn magnets, 1995-present

Project Manager at CEA for ATLAS Barrel Toroid magnet, 1999-2008

Research Scientist, Design, manufacturing and tests of superconducting quadrupole magnet prototypes for LHC (collaboration CERN-CEA-CNRS) and SSC High Energy Booster, 1990-1999

Selected publications

1. P. Védrine et al., "Iseult/INUMAC Whole Body 11.7 T MRI Magnet Status", *IEEE Trans. Appl. Supercon.* Vol .20 n° 3 (2010) – pp 696-701

2. H. Felice, A. Mailfert, P. Védrine., "Magnetic and Mechanical Design of a 130 mm Aperture Nb₃Sn Dipole Magnet", *IEEE Trans. Appl. Supercon.* Vol .17 n° 2 (2007) – pp 1047-1050

3 P. Védrine et al., "Completion of the Manufacturing of the ATLAS Barrel Toroid Magnet at CERN", *IEEE Trans. Appl. Supercon.* Vol .16 n° 2 (2006) – pp 504-507.

4. P. Védrine, B; Gallet, C. Nouvel, " Measurement of Thermo-Mechanical Properties of NbTi Windings for Accelerator Magnets " *Pres. at ASC 98*, Palm Desert, Californie, Septembre 1998, *IEEE Trans. Appl. Supercon.* Vol .9 n° 2 (1999) – p 235-239.

5. P. Védrine et al. "Mechanical tests on the prototype LHC lattice quadrupole", *IEEE Trans. Magn.* : 30 (1994) - pp.2475-2478.