

# Curriculum Vitae

**Jean-Luc DUCHATEAU**

**CEA Institute for Magnetic Fusion Research (IRFM)**

**[Jean-luc.duchateau@cea.fr](mailto:Jean-luc.duchateau@cea.fr)**

## SCIENTIFIC ACTIVITY

**1969 -1975** SupElec, PhD on magnetic instabilities in superconducting composites at CEA.

**1977-1984** Scientific Activity on superconducting generators at Electricity of France

**1984-2013** Scientific Activity at IRFM in charge of Tore Supra magnet system, commissioning and supervision. ITER and JT-60SA TF preparation.

**2003** Director of Research at CEA: application of superconductors.

**2005** Entitled to monitor Researches and Thesis by University of Provence

**Since 2013** CEA/IRFM Scientific Adviser

## MAIN SCIENTIFIC CONTRIBUTIONS

- Superconducting composites and cables behaviour: electromagnetic properties, losses, stability, design, fabrication.
- Commissioning, supervision and protection of large superconducting systems
- Cable in conduit superconductor behaviour: quench, thermohydraulics, design.
- Superconducting Tokamak: general design and optimisation of the magnet system, DEMO