



**Name:** Stefania Farinon

**Affiliation:** INFN – Sezione di Genova

**Position:** Senior Researcher

**Education:** Degree in Physics at Genoa University (Italy)

**Research Interests/Areas of Expertise:**

Applied Superconductivity: Magnets for accelerators and detectors, Magnet design, Magnetic, structural and thermal analyses of magnets and related systems, AC losses of wires and cables.

**Publications:** Around 100 publications in the Applied Superconductivity field

**Approximate Number of Years in Applied Superconductivity:** 18

**Membership in Professional Societies:**

- IEEE

**Previous ASC Service:**

- Chief Editor for ASC10
- Editor for ASC06, ASC08, ASC12.

**Service to Related Conferences:**

- Chief Editor for MT19 and MT22.

**Other:** Stefania Farinon was born on May 28th, 1969 in Genova, Italy. Presently, she is Senior Staff Researcher at INFN (National Institute for Nuclear Physics) in Genova. She took her degree in Physics in February 1994, discussing a thesis on the behavior of Type-II superconductors exposed to external ac magnetic field. She then worked on the magnetic design of the 1.5 T BaBar superconducting solenoid for PEP-II at SLAC, which successfully completed its experimental run in 2008. In the period 1995-2005, she worked on the design and construction of the CMS superconducting magnet at CERN LHC. Particularly, she contributed to the choice of the reinforced conductor and to the magnetic, thermal and mechanical design of the winding. Moreover, she has been responsible of the process qualification and quality. Since 2005, she has been working on the design and construction of a curved fast ramped superconducting dipole for the FAIR SIS300 synchrotron at GSI, designing the mechanics and coordinating the mechanical test activities. The dipole has been recently tested at the LASA Laboratory (INFN-Milan), successfully reaching the full operative current. Among several other projects she was involved in, there are the development of a high performance Nb<sub>3</sub>Sn conductor for the European NED project, the design of the superconducting solenoid for the cyclotron SCENT (Superconducting Cyclotron for Exotic Nuclei and Therapy) at the LNS Laboratory of INFN and the design of a heavy ion gantry for oncologic radiotherapy at the CNAO center (Italian National Center for Oncologic Radiotherapy). Moreover, for many years she has been developing finite element modeling to simulate the ac losses of high T<sub>c</sub> superconductors.