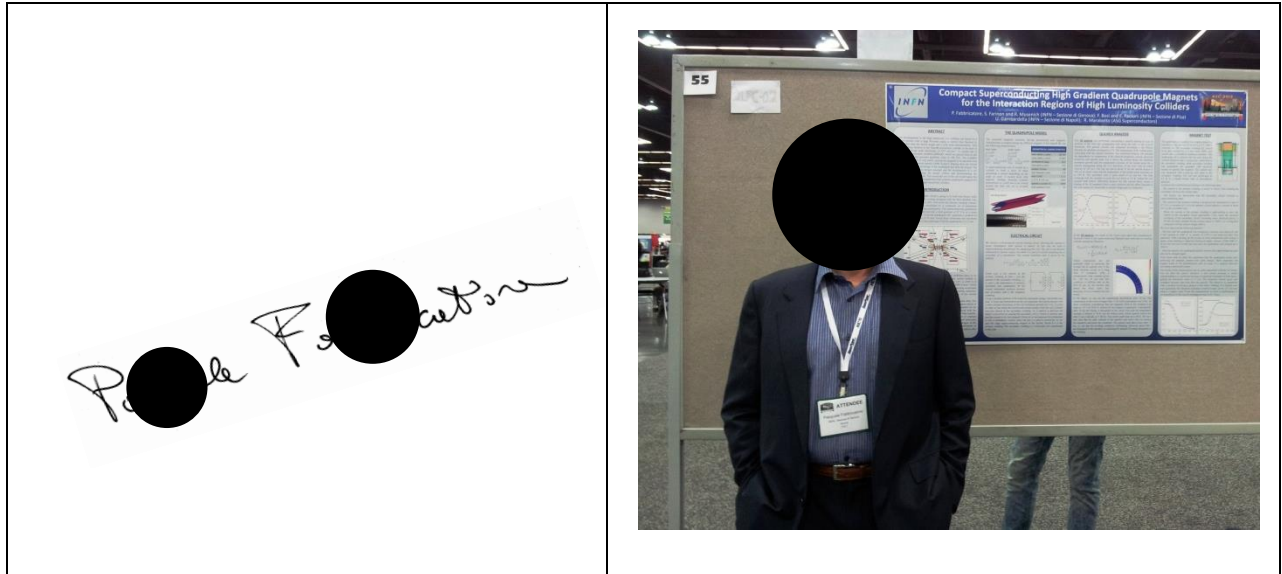


## Curriculum Vitae Et Studiorum

Pasquale Fabbriatore

Genova 10/1/ 2019



- Pasquale Fabbriatore was born in ~~XXXXXXXXXXXXXXXXXXXX~~ (Italy).
- He obtained his degree in Physics (cum laude) from the University of Salerno (Italy) in 1982, discussing a thesis on the *Design and Construction of Small Scale Superconducting Magnets*
- In 1982 he joined Ansaldo Energia (Genova) in the R&D section. During this period he carried out activities related to:
  - 1) Design and test of rotating coupling for LHe (s.c. alternator project) ;
  - 2) Design, construction and test of 0.5T whole body magnet for MRI imaging (Responsible for engineering and construction);
  - 3) Engineering design of a thin magnet for the ZEUS Detector of HERA at DESY, Germany (Responsible for the engineering).

- In 1987 he joined the Genova Unit of the Italian Institute for Nuclear Physics, (INFN), to develop superconducting devices for particle physics. Presently he is permanent staff with profile "Dirigente Tecnologo". His main activities covered:

- 1) Development of techniques for  $I_c$  characterization of high current cables for High Energy Physics applications;
- 2) Development of ac magnetic measurements for studying the electrical and magnetic properties of superconductors.
- 3) Design, follow-up and test of the superconducting coil for BABAR Detector at SLAC;
- 4) Design and construction follow-up of the superconducting coil for the CMS experiment at CERN;
- 5) Developments of fast cycled superconducting dipoles for FAIR SIS300 and future applications;
- 6) Design and test of the magnets for the delivery lines of CNAO (Center for hadron-therapy in Pavia).
- 7) Design and construction of a superconducting prototype module for Mu2e experiment at Fermilab
- 8) Design and construction of a short model and a prototype of the superconducting dipole D2 for the High Luminosity upgrade of LHC (on going activity)

- Among his responsibilities during his stay at INFN-Genova it is worth mentioning:

- 1) Principal Investigator, in the frame of CEE COPERNICUS 1994, of the project *Manufacturing techniques for electromagnet giving 0.5 T at 77 K made from bi-based high-T<sub>c</sub> superconductor* (1994-1998);
- 2) Project Leader of the winding project of CMS Magnet (1997-2006);
- 3) Member of CMS Magnet Technical Board (1994-2009);

- 4) Responsible of task 11 of the project CNAO (Italian Center for Hadron-Therapy) aimed to the construction of the magnets for the Beam Deliver Line (2005-2009);
- 5) Member (Vice Chairman for two years) of the Committee for Scientific and Technical Issues and of the Technical Advisory Committee of the facility FAIR at GSI in Darmstadt (2004-2006);
- 6) Member of the INFN Committee for Technological Transfer (2005-2008);
- 7) Local Group Leader for technological R&D (1991-1996);
- 8) Member of GEV02 (group of expert for Physical Sciences) in the Evaluation of Research Quality 2004-2010
- 9) Member of the Machine Advisory Committee of INFN (2012-2016);
- 10) Leader of the Work Package 5 (Industrialization) of the ongoing H2020 project AMICI (2017-2019);
- 11) Chairman of the Scientific Program Committee of MT-19 Conference (2005);
- 12) Co-chair of the Scientific Program Committee of EUCAS 2013 Conferences;
- 13) Member of the Scientific Program Committee of conferences ASC06, SATT13, MT20, MT21, ASC2010, ASC2012 and MT23;
- 14) Responsible of the Work Package 5 (Industrialization) of the H-2020 Project AMICI (Accelerator and Magnet Infrastructure for Cooperation and Innovation) (2017-present)

- In total he published more than 500 articles on international journals (h-index 73 as reported in WoS). In particular he contributed to the knowledge of applied superconductivity by publishing about 150 articles in the field of magnets, cryogenics and superconductivity.

- He is also active in scientific spreading and teaching as Lecturer at University of Genova. He has been 20 times tutor of thesis work for students graduating in physics and of PhD student.