



Luca Bottura has trained as a Nuclear Engineer at the Engineering Faculty of the University of Bologna (Italy), and was awarded a PhD from the University College of Swansea (Wales, UK) for the physical modeling, scaling and numerical analysis of quench in large-scale, force-flow cooled superconducting coils. After nine years of experience in the design and testing of superconducting cables and magnets for fusion (NET and ITER), he joined CERN in 1995, where he organized and supervised field mapping activities for the LHC magnets during prototyping and cryogenic series tests. The large amount of data was consolidated in the Field Description for the LHC (FiDeL), now an embedded system of the LHC controls. In July 2008 he took responsibility for superconductors (materials, cables, devices) at CERN, and initiated the conductor specification and procurement of Nb₃Sn for the CERN High-Field Magnet program, the initial step of the procurement of HEP-grade Nb₃Sn for HL-LHC. From July 2011 till December 2020 he led the Magnets Superconductors and Cryostats Group in the CERN Technology Department (CERN TE-MS), in charge of superconducting, resistive and permanent magnets for the CERN accelerator complex, the associated manufacturing and test technologies, and the cryogenic test installations. From January 2021 till February 2022 he led the High-Field Superconducting Magnets (HFM) R&D Programme at CERN.

Curriculum Vitae

Personal information

First name / Surname Stefania Farinon
address
telephone
e-mail stefania.farinon@ge.infn.it
nationality italian
date of birth
gender female

Work experience

position held from Nov. 1996 to Jan. 2001 Scientist at INFN (National Institute for Nuclear Physics)

Position held since Feb. 2001 Senior scientist at INFN

main research project and scientific collaboration

since 2019 Position: deputy project leader, project leader since June 2021
Design and construction supervision of a single aperture demonstrator of a Nb₃Sn high field dipole

since 2019 Position: design engineer
Design and construction of two prototype of high temperature superconductive CCT dipoles for the INFN experiment BISCOTTO

2015-2019 Position: responsible for INFN WP5 activities
Design of a Nb₃Sn 16 T superconducting dipole for the Future Circular Collider at CERN for the European experiment EuroCircol.

since 2014 Position: deputy project leader, project leader since June 2021
Design and construction supervision of a model, a prototype and the six magnet series of the superconducting dipole D2 for the High Luminosity upgrade of the Large Hadron Collider at CERN

2014-2016 Position: design engineer
Design and construction of a vacuum calorimeter to measure with high accuracy the heat generated by a 100kCi ¹⁴⁴Ce-¹⁴⁴Pr antineutrino generator for the SOX (Short distance neutrino Oscillations with BoreXino) experiment.

2014-2015 Position: design engineer
Design and construction of the first prototype out of 27 modules of the Transport Solenoid for the Mu2e experiment at Fermilab

since 2013 Position: design engineer
Participation to the upgrade study of the gravitational wave detector Virgo (analysis of the electromagnetic and Newtonian noise)

2013-2015 Position: design engineer
Design of a superconducting toroidal magnet for astroparticle shielding in interplanetary manned missions for the European experiment SR2S (Space Radiation Superconductive Shield).

2011-2013 Position: design engineer
Design, construction and test of a model superconducting quadrupole for the interaction region of SuperB factory.

2005-2010 Position: design engineer and responsible of the mechanical design
Design and construction of a fast ramped bent superconducting dipole for the FAIR SIS300 synchrotron.

1995-2005 Position: responsible for the quality assurance and design engineer
Design and construction of the CMS superconducting solenoid at CERN LHC.

2005-2007 Position: responsible for INFN-Genoa activities
Development of a high performance Nb₃Sn conductor for the European NED project

2003-2004 Position: responsible for INFN-Genoa activities
Design of the superconducting solenoid for the cyclotron SCENT (Superconducting Cyclotron for Exotic Nuclei and Therapy) at the LNS Laboratory of INFN.

2001-2003 Position: design engineer
Design of a heavy ion gantry for oncologic radiotherapy at the CNAO center.

1994-1996 Position: design engineer
Design and construction of the BABAR superconducting solenoid for the SLAC facility at Stanford.

Editorial tasks

since 2005 Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the Applied Superconductivity Conference and the Magnet Technology Conference.

2005 Chief Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 19th Magnet Technology Conference.

2007 Chief Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 20th Magnet Technology Conference.

2009 Lead Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 21st Magnet Technology Conference

2010 Chief Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 2010 Applied Superconductivity Conference.

2011 Chief Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 22nd Magnet Technology Conference.

2012 Lead Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 2012 Applied Superconductivity Conference.

2013 Chief Editor of the journal "IEEE Transaction on Applied Superconductivity" for the issues containing the proceeding of the 23rd Magnet Technology Conference.

2013 Chief Editor of "Journal of Physics: Conference Series" for 2013 European Conference on Applied Superconductivity

since 2019 Editor of the regular issues of the journal "IEEE Transaction on Applied Superconductivity"

Scientific committees

2013 Member of the Scientific Program Committee of the 23rd Magnet Technology Conference.

2013 Member of the Scientific Program Committee of the 2013 European Conference on Applied Superconductivity.

2014-2018 Elected member of Applied Superconductivity Conference Board Committee.

2014 Member of the Scientific Program Committee of the 2014 Applied Superconductivity Conference

2016 Member of the Scientific Program Committee of the 2016 Applied Superconductivity Conference

2018 Member of the Scientific Program Committee of the 2018 Applied Superconductivity Conference

2019 Member of the Scientific Program Committee of the 2019 European Conference on Applied Superconductivity.

Academic assignments

Since A.A. 2021-2022 Lecturer for the Master in Physics: " Physics and Technology of Superconducting Magnets" (24 hours)

A.A: 2005-2006 and 2006-2007 Lecturer for the Master in Physics: "Finite Element Computation for Applications in Physics Problems" (24 hours theory, 25 hours lab)

Since A.A. 2018-2019 Lecturer in the course of the PhD School in Physics: "Design of superconducting magnets" (20 hours)

Education and training

1990-1994 Degree in Physics from University of Genoa
Thesis about the theoretical and experimental study of the spectral response of superconducting materials exposed to varying magnetic field

Personal skills and competences

Languages Good English, in speaking and writing, poor knowledge of French

Technical skills and competences in-depth knowledge of design using finite element tools

PERSONAL INFORMATION

Massimo Sorbi



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🌐 <https://www.unimi.it/it/ugov/person/massimo-sorbi>

🌐 <https://homelasa.mi.infn.it/en/superconducting-magnets-the-group.html>

Sex M | Date of birth | Nationality Italian

POSITION

Associate Professor
 Physics Department of Milan University

WORK EXPERIENCE

From 2019 and presently

Associate Professor

Dipartimento di Fisica & LASA Lab., via Fratelli Cervi 201, Segrate - Milan

- Since 2016 coordinator and responsible at INFN - LASA of the Superconducting Magnet Group
- Professor of regular courses in the Bachelor's degree in physics and of advanced course of applied superconductivity in the Master's degree in physics.
- Local responsible for the INFN experiment FalconD – related to the construction of a Nb₃Sn superconducting dipole for the post-LHC era.

From 2004 to 2019

University Researcher

Dipartimento di Fisica & INFN Sez. di Milano, LASA Lab., via Fratelli Cervi 201, Segrate - Milan

- Professor of regular courses in the Bachelor's degree in physics and of advanced course of applied superconductivity in the Master's degree in physics.
- Design of high field Nb₃Sn superconducting dipoles (bore field up to 16 T) for the post-LHC era (NED dipole [2004-2006]).
- Design, construction and test of a 4-m-long fast ramped superconducting dipole (bore field ramp rate: 1 T/s) for SIS300 of the FAIR Facility in Darmstadt (Germany) (2007-2013)
- Quench protection study of high field Nb₃Sn superconducting “low-beta” quadrupoles for HiLuminosity LHC (2012-2016)
- Design, construction and test of High Order Corrector superconducting magnets for the High Luminosity LHC program (2016-2022)
- Design of the 16 T, Nb₃Sn, superconducting dipole for the Future Circular Collider hh program (2015-2019).

From 2002 to 2004

Contract from Florence University:

Dipartimento di Fisica – Sesto Fiorentino

- Scope of the program: design of a superconducting magnet for the deflection of cosmic rays in interplanetary missions

From 1996 to 2001

Technical engineering Contract

INFN – Sezione di Milano – LASA Lab.

- Design and construction of the Superconducting Barrel Toroid of the ATLAS magnets (CERN experiment)”

From 1994 to 1996

Fellowship

TERA Foundation.

- Scope of the program: “Design of a superconducting cyclotron for hadron therapy””

EDUCATION AND TRAINING

from Sept. 1988- to Feb. 1994

Laurea in Physics

110/110 "Magna cum Laude"

Università degli Studi di Milano, Faculty of Mathematics, Physics, Natural and Chemical Sciences

- Experimental thesis in Superconducting magnets

from Sept. 1982- to Jun. 1988

Diploma Liceo Classico

60/60

Liceo Scientifico e Classico di San Donato Milanese

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B1	B2	B2	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Highly developed communication skills, which I am able to spend in the exposition of a scientific discourse. The skill has been acquired during the professional experience in research and the academic role for teaching.

Organisational / managerial skills

- Responsible and coordinator of the Superconducting Magnet Group of INFN/Milan University at LASA (9 Researchers, 6 Technicians)
- Local responsible of national and international collaboration, including European FP7 calls (SRS2 2007-2013) and INFN calls ("MAGIX", CSN-5, 2014-2018)

Job-related skills

- Tutors of 8 magistral laurea thesis, 8 bachelor laurea thesis and of 3 PhD students
- Good attitude for teaching and training for students new researchers
- Good quality for new problem solving
- Predisposition for team working

Digital skills

Os: Windows (advanced), Linux (basic)

Programming languages: FORTRAN, BASIC

Data processing: Excel

Other specific software: OPERA-2D/3D, ROXIE, QLASA

Driving licence

Italian A, B

ADDITIONAL INFORMATION

Publications

- 1) R.U. Valente, G. Bellomo, S. Burioli, E. De Matteis, P. Fabricatore, S. Farinon, F. Lackner, F. Levi, S. Mariotto, R. Musenich, A. Pampaloni, M. Prioli, **M. Sorbi**, M. Statera, D. Tommasini "Study of Superconducting Magnetization Effects and 3D Electromagnetic Analysis of the Nb Short Model for FCC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 31 5 (2021) 9356105
- 2) M. Statera, F. Alessandria, F. Broggi, G. Bellomo, L. Imeri, A. Leone, S. Mariotto, A. Paccalini, A. Pasini, D. Pedrini, M. Prioli, **M. Sorbi**, M. Todero, C. Uva, R.U. Valente, A. Musso, E. Todesco, M.

Campaniello, M. Canetti, F. Gangini, P. Manini, C. Santini, A. Zanichelli "Optimization of the high order correctors for HL-LHC toward the series production" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 31 5 (2021) 9395196

- 3) E. Todesco, H. Bajas, M. Bajko, A. Ballarino, S.I. Bermudez, B. Bordini, L. Bottura, G. De Rijk, A. Devred, D. Duarte Ramos, M. Duda, P. Ferracin, P. Fessia, J. Fleiter, L. Fiscarelli, A. Foussat, G. Kirby, F. Mangiarotti, M. Mentink, A. Milanese, A. Musso, V. Parma, J.C. Perez, H. Prin, L. Rossi, S. Russenschuck, G. Willering, S. Enomoto, T. Nakamoto, N. Kimura, T. Ogitsu, M. Sugano, K. Suzuki, S. Wei, L. Gong, J. Wang, Q. Peng, Q. Xu, A. Bersani, B. Caiffi, P. Fabbicatore, S. Farinon, A. Pampaloni, S. Mariotto, M. Prioli, **M. Sorbi**, M. Statera, J. Garcia Matos, F. Toral, G. Ambrosio, G. Apollinari, M. Baldini, R. Carcagno, S. Feher, S. Stoynev, G. Chlachidze, V. Marinozzi, V. Lombardo, F. Nobrega, T. Strauss, M. Yu, M. Anerella, K. Amm, P. Joshi, J. Muratore, J. Schmalzle, P. Wanderer, D. Chen, S. Gourlay, I. Pong, S. Prestemon, G.L. Sabbi, L. Cooley, H. Felice "The High Luminosity LHC interaction region magnets towards series production" SUPERCONDUCTOR SCIENCE & TECHNOLOGY 34 5 (2021) 53001
- 4) S. Mariotto, **M. Sorbi** "Quench position reconstruction through harmonic field analysis in superconducting magnets" SUPERCONDUCTOR SCIENCE & TECHNOLOGY 35 1 (2021) 15006
- 5) A. Pampaloni, G. Bellomo, S. Burioli, E. De Matteis, P. Fabbicatore, S. Farinon, F. Lackner, F. Levi, S. Mariotto, R. Musenich, M. Prioli, **M. Sorbi**, M. Statera, D. Tommasini, R.U. Valente "Preliminary Design of the Nb₃Sn cos θ Short Model for the FCC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 31 5 (2021) 9361140
- 6) M. Prioli, F. Broggi, M. Campaniello, M. Canetti, E. De Matteis, F. Gangini, L. Imeri, A. Leone, P. Manini, S. Mariotto, A. Musso, A. Paccalini, A. Palmisano, A. Pasini, D. Pedrini, C. Santini, **M. Sorbi**, M. Statera, M. Todero, E. Todesco, C. Uva, R.U. Valente, A. Zanichelli "Completion of the Test Phase for the Hilumi LHC Skew Quadrupole Corrector Magnet" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 31 5 () 9356120
- 7) R. Valente, G. Bellomo, P. Fabbicatore, S. Farinon, S. Mariotto, A. Pampaloni, M. Prioli, **M. Sorbi**, M. Statera "Electromagnetic and Mechanical Study for the Nb₃Sn Cos-Theta Dipole Model for the FCC " IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 30 4 (2020) 8986629
- 8) S. Mariotto, M. Todero, R. Valente, A. Leone, A. Paccalini, A. Pasini, D. Pedrini, M. Prioli, M. Quadrio, **M. Sorbi**, M. Statera "Fabrication and Results of the First MgB₂ Round Coil Superferric Magnet at LASA" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 30 4 (2020) 8986646
- 9) M. Statera, F. Alessandria, G. Bellomo, F. Broggi, A. Leone, S. Mariotto, A. Paccalini, A. Pasini, D. Pedrini, M. Prioli, **M. Sorbi**, M. Quadrio, R. Valente, M. Todero, C. Uva, A. Musso, E. Todesco, M. Campaniello, M. Canetti, F. Gangini, P. Manini, A. Zanichelli "Construction and Power Test of the Superferric Skew Quadrupole for HL-LHC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 30 4 (2020) 4003805
- 10) S. Mariotto, A. Leone, A. Paccalini, A. Pasini, D. Pedrini, M. Quadrio, **M. Sorbi**, M. Statera, M. Todero, R. Valente "Activity on the Sextupole Round Coil Superferric Magnet Prototype at LASA" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 4004505
- 11) R. Valente, G. Bellomo, B. Caiffi, P. Fabbicatore, S. Farinon, S. Mariotto, A. Pampaloni, A.M. Ricci, **M. Sorbi**, M. Statera "Baseline Design of a 16 T cos theta Bending Dipole for the Future Circular Collider" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 4003005
- 12) M. Statera, F. Alessandria, F. Broggi, A. Leone, S. Mariotto, A. Paccalini, D. Pedrini, M. Quadrio, **M. Sorbi**, M. Todero, C. Uva, R. Valente, P. Fessia, A. Musso, E. Todesco "Construction and Cold Test of the Superferric Decapole for the LHC Luminosity Upgrade" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 4004305
- 13) **M. Sorbi**, F. Alessandria, G. Bellomo, F. Broggi, M. Campaniello, M. Canetti, A. Fumagalli, F. Gangini, A. Leone, S. Mariotto, A. Musso, A. Paccalini, A. Pasini, D. Pedrini, M. Quadrio, M. Statera, M. Todero, E. Todesco, R. Valente, C. Uva, A. Zanichelli "Construction and cold test of the superferric dodecapole high order corrector for the LHC high luminosity upgrade" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 8633391
- 14) L. Fiscarelli, H. Bajas, F. Mangiarotti, A. Musso, S. Russenschuck, S. Mariotto, **M. Sorbi**, M. Statera "Magnetic Measurements on the Prototype Magnets of the High-Order Correctors for HL-LHC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 4003505

- 15) L. Serafini, A. Bacci, A. Bellandi, M. Bertucci, M. Bolognesi, A. Bosotti, F. Broggi, R. Calandrino, F. Camera, F. Canella, S. Capra, P. Cardarelli, M. Carrara, K. Cassou, A. Castoldi, R. Castriconi, G.M. Cattaneo, S. Cialdi, A. Cianchi, N. Coluccelli, C. Curatolo, A. Del Vecchio, S. Di Mitri, I. Drebrot, K. Dupraz, A. Esposito, L. Faillace, M. Ferrario, C. Fiorini, G. Galzerano, M. Gambaccini, G. Ghiringhelli, D. Giannotti, D. Giove, F. Groppi, C. Guazzoni, P. Laporta, S. Leoni, A. Loria, P. Mangili, A. Martens, T. Mazza, Z. Mazzotta, C. Meroni, G. Mettievier, P. Michelato, L. Monaco, S. Morante, M. Moretti Sala, D. Nutarelli, S. Olivares, G. Onida, M. Opromolla, C. Pagani, R. Paparella, M.G.A. Paris, B. Paroli, G. Paternò, C. Paulin, L. Perini, M. Petrarca, V. Petrillo, E. Pinotti, P. Piseri, M.A.C. Potenza, F. Prez, A. Pullia, E. Puppini, F. Ragusa, R. Ramponi, M. Romè, M. Rossetti Conti, A.R. Rossi, L. Rossi, M. Ruijter, P. Russo, S. Samsam, A. Samo, D. Sertore, **M. Sorbi**, B. Spataro, M. Statera, F. Stellato, E. Suerra, A. Tagliaferri, A. Taibi, V. Torri, G. Turchetti, C. Vaccarezza, R. Valdagni, A. Vanzulli, F. Zomer, G. Rossi "MariX, an advanced MHz-class repetition rate X-ray source for linear regime time-resolved spectroscopy and photon scattering" NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT 930 (2019)
- 16) D. Schoerling, D. Arbelaez, B. Auchmann, M. Bajko, A. Ballarino, E. Barzi, G. Bellomo, M. Benedikt, S. Izquierdo Bermudez, B. Bordini, L. Bottura, L. Brouwer, P. Bruzzone, B. Caiffi, S. Caspi, A. Chakraborti, E. Coatanea, G. de Rijk, M. Dhalle, M. Durante, P. Fabbriatore, S. Farinon, H. Felice, A. Fernandez, I. Sancho Fernandez, P. Gao, B. Gold, T. Gortsas, S. Gourlay, M. Juchno, V. Kashikhin, C. Kokkinos, S. Kokkinos, K. Koskinen, F. Lackner, C. Lorin, K. Loukas, A. Louzguiti, K. Lytikainen, S. Mariotto, M. Marchevsky, G. Montenero, J. Munilla, I. Novitski, T. Ogitsu, A. Pampaloni, J.C. Perez, C. Pes, C. Petrone, D. Polyzos, S. Prestemon, M. Prioli, A.M. Ricci, J.M. Rifflet, E. Rochepault, S. Russenschuck, T. Salmi, I.A. Santillana, F. Savary, C. Scheuerlein, M. Segreti, C. Senatore, **M. Sorbi**, M. Statera, A. Stenvall, L. Tavian, T. Tervoort, D. Tommasini, F. Toral, R. Valente, G. Velev, A.P. Verweij, S. Wessel, F. Wolf, F. Zimmermann, A.V. Zlobin "The 16 T Dipole Development Program for FCC and HE-LHC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 29 5 (2019) 4003109
- 17) A. Abada, ... **M. Sorbi** (FCC Collaboration) "HE-LHC: The High-Energy Large Hadron Collider: Future Circular Collider Conceptual Design Report Volume 4" THE EUROPEAN PHYSICAL JOURNAL. SPECIAL TOPICS 228 (2019) <https://doi.org/10.1140/epjst/e2019-900088-6>
- 18) A. Abada, ... **M. Sorbi** (FCC Collaboration) "FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3" THE EUROPEAN PHYSICAL JOURNAL. SPECIAL TOPICS 228 (2019) <https://doi.org/10.1140/epjst/e2019-900087-0>
- 19) A. Abada, ... **M. Sorbi** (FCC Collaboration) "FCC Physics Opportunities" THE EUROPEAN PHYSICAL JOURNAL. C, PARTICLES AND FIELDS 79 474 (2019) <https://doi.org/10.1140/epjst/e2019-900087-0>
- 20) A. Abada, ... **M. Sorbi** (FCC Collaboration) "FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2" THE EUROPEAN PHYSICAL JOURNAL. SPECIAL TOPICS 228 (2019) <https://doi.org/10.1140/epjst/e2019-900045-4>
- 21) M. Statera, F. Broggi, M. Citterio, S. Latorre, C. Gesmundo, V. Marinozzi, A. Paccalini, D. Pedrini, M. Quadrio, **M. Sorbi**, M. Toderò "A fast 10-kA current switch for higher temperature superconductor accelerator magnets" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 3 (2018) 8269319
- 22) V. Marinozzi, G. Bellomo, B. Caiffi, P. Fabbriatore, S. Farinon, A.M. Ricci, **M. Sorbi**, M. Statera "Conceptual design of a 16 T cos θ bending dipole for the Future Circular Collider" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 3 (2018) 4004205
- 23) M. Statera, F. Alessandria, F. Broggi, A. Leone, V. Marinozzi, S. Mariotto, A. Paccalini, D. Pedrini, M. Quadrio, **M. Sorbi**, M. Toderò, C. Uva, P. Fessia, A. Musso, E. Todesco "Construction and cold test of the superferric octupole for the LHC Luminosity upgrade" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 4 (2018) 4008705
- 24) J. Zhao, M. Prioli, A. Stenvall, T. Salmi, Y. Gao, B. Caiffi, C. Lorin, V. Marinozzi, S. Farinon, **M. Sorbi** "Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider" PHYSICA. C, SUPERCONDUCTIVITY 550 (2018)
- 25) D. Tommasini, D. Arbelaez, B. Auchmann, H. Bajas, M. Bajko, A. Ballarino, E. Barzi, G. Bellomo,

- M. Benedikt, S. Izquierdo Bermudez, B. Bordini, L. Bottura, L. Brouwer, M. Buzio, B. Caiffi, S. Caspi, M. Dhalle, M. Durante, G. de Rijk, P. Fabbriatore, S. Farinon, P. Ferracin, P. Gao, S. Gourlay, M. Juchno, V. Kashikhin, F. Lackner, C. Lorin, M. Marchevsky, V. Marinozzi, T. Martinez, J. Munilla, I. Novitski, T. Ogitsu, R. Ortwein, J.C. Perez, C. Petrone, S. Prestemon, M. Prioli, J. Rifflet, E. Rochepault, S. Russenschuck, T. Salmi, F. Savary, D. Schoerling, M. Segreti, C. Senatore, **M. Sorbi**, A. Stenvall, E. Todesco, F. Toral, A. Verweij, S. Wessel, F. Wolf, A. Zlobin "Status of the 16 T dipole development program for a future hadron collider" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 3 (2018)
- 26) **M. Sorbi**, F. Alessandria, G. Bellomo, F. Broggi, A. Leone, V. Marinozzi, S. Mariotto, A. Musso, A. Paccalini, D. Pedrini, M. Quadrio, M. Statera, M. Toderò, E. Todesco, C. Uva "Status of the Activity for the Construction of the HL-LHC Superconducting High Order Corrector Magnets at LASA-Milan" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 3 (2018) 4100205
 - 27) S. Mariotto, V. Marinozzi, J. Rysti, **M. Sorbi**, M. Statera "Study of a Sextupole Round Coil Superferric Magnet" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 3 (2018) 8234663
 - 28) B. Caiffi, G. Bellomo, P. Fabbriatore, S. Farinon, V. Marinozzi, A.M. Ricci, **M. Sorbi** "Update on Mechanical Design of a Cos theta 16-T Bending Dipole for the Future Circular Collider" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 28 4 (2018) 4006704
 - 29) Schoerling, M. Durante, C. Lorin, T. Martinez, J. Ruuskanen, T. Salmi, **M. Sorbi**, D. Tommasini, F. Toral "Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 27 4 (2017) 4003105
 - 30) M. Statera, G. Volpini, F. Alessandria, G. Bellomo, F. Broggi, A. Paccalini, D. Pedrini, A. Leone, V. Marinozzi, M. Quadrio, **M. Sorbi**, M. Toderò, C. Uva, P. Fessia, A. Musso, E. Todesco, F. Toral "Construction and Cold Test of the First Superferric Corrector Magnet for the LHC Luminosity Upgrade" IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 27 4 (2017) 7812665
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