

Segrate, 22-03-2022

Profilo professionale di Paccalini Antonio

Partecipazione al progetto Ciclotrone Superconduttore curando la progettazione del sistema di QDS e della diagnostica del magnete.

Per il progetto ELFA (Electron Facility for Acceleration) ha partecipato alla realizzazione del sistema di caratterizzazione dei magneti permanenti del modello Wiggler.

Ha collaborato alla progettazione e montaggio dell'apparato di misura per le correnti critiche (max 30kA) del cavo superconduttore per i dipoli LHC, nonché alla realizzazione del software di controllo e acquisizione in Labview.

Nell'ambito della collaborazione dell'I.N.F.N –L.A.S.A. al progetto ATLAS ha partecipato alla progettazione (hardware e software) di apparati elettronici per la realizzazione dei magneti modello B00 e B0.

Ha inoltre partecipato all'energizzazione delle bobine B00 e B0.

Per il progetto Disco-RAP:

- Realizzazione hardware, software e analisi dati del sistema per la misura della conducibilità termica di materiali a temperature criogeniche.
- Sviluppo del sistema per la misura della resistività dei cavi Rutherford e relativo apparato per l'assemblaggio dei campioni.
- Assemblaggio del sistema dei Quench Heater e dell'acquisizione veloce per il test del magnete.

Per il progetto Eucard:

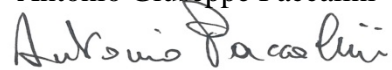
- Realizzazione hardware di uno switch per la scarica veloce in caso di quench in grado con portata di 10000 Amp. E una velocità di risposta inferiore a 1 msec.

Per il progetto HiLumi:

- Studio e realizzazione delle bobine prototipo per i magneti di correzione.

- Realizzazione hardware e software del sistema di acquisizione veloce per il sistema di test e caratterizzazione dei magneti nelle loro diverse configurazioni.
- Adattamento del sistema di tensionamento del filo per la realizzazione delle bobine.
- Realizzazione della bobina in MBg2 per lo studio di un nuovo tipo di magneti di correzione.

Antonio Giuseppe Paccalini

Handwritten signature of Antonio Giuseppe Paccalini in black ink.

✉ barbara.caiffi@ge.infn.it

Sesso F

Nazionalità Italiana

Attività di ricerca

10/2019 – Oggi
Progetto
Attività principali

**Ricercatore a tempo indeterminato presso INFN- sezione di Genova
Hi-Luminosity**

Progettazione e caratterizzazione di magneti superconduttori per acceleratori.

Sono coinvolta nella costruzione del dipolo di separazione/ricombinazione D2 (MBRD) per l'upgrade High Luminosity dell'acceleratore LHC (HL-LHC). Alla costruzione del modello corto sta seguendo la costruzione di un prototipo a dimensioni reali e quindi una serie di 6 magneti, che verranno installati nel tunnel del CERN nel 2025. Mi sono occupata della progettazione meccanica e magnetica di tali dipoli e ne sto seguendo la costruzione presso l'azienda ASG Superconductors di Genova. Inoltre, mi occupo della loro strumentazione, caratterizzazione e delle misure dei parametri più rilevanti, tra cui la qualità di campo. Svolgo queste attività in collaborazione con il dipartimento "Magnet, Superconductors and Cryostats Technology" del CERN, con cui sono l'interfaccia e la responsabile per tutte le attività che riguardano il controllo qualità e il layout magnetico.

Progetto
Attività principali

KM3NeT

Studio di sorgenti astrofisiche con il telescopio per neutrini KM3NeT

KM3NeT è un'infrastruttura di ricerca localizzata nelle profondità del mar Mediterraneo, per la rivelazione di neutrini. Due blocchi di array di scintillatori saranno posizionati rispettivamente al largo di Tolone (ORCA, Oscillation Research with Cosmics in the Abyss) e di Capo Passero (ARCA, Astroparticle Research with Cosmics in the Abyss), il primo ottimizzato per l'osservazione di neutrini atmosferici per studi di oscillazione e gerarchia di massa, il secondo ottimizzato per neutrini cosmici per lo studio di sorgenti astrofisiche, quali SNR e PWN. Nell'ambito di tale progetto mi occupo soprattutto dello studio di sensibilità di ARCA a sorgenti astrofisiche e dello sviluppo dei software necessari per tali tipologie di analisi.

02/2019 – 09/2029

Progetto
Attività principali

Ricercatore a tempo indeterminato presso il Centro Ricerche di Frascati dell'ENEA, nel dipartimento di Tecnologie per la Fusione

DTT (Divertor Tokamak Test)

DTT è un progetto che prevede la costruzione di un reattore a fusione termonucleare per lo studio del componente divertore, di fondamentale importanza per la stabilità del plasma e particolarmente critico in quanto soggetto a ingenti stress termici e meccanici. All'interno di tale progetto mi sono occupata di analisi nucleari, volte soprattutto alla progettazione di diagnostiche neutroniche necessarie per la caratterizzazione degli scenari di plasma.

05/2017 - 05/2019
05/2016 – 05/2017

Progetto
Attività principali

Tecnologo a tempo determinato presso INFN, sezione di Genova

Assegno di ricerca tecnologica presso INFN, sezione di Genova

Progettazione e caratterizzazione di magneti superconduttori per acceleratori.

Ho lavorato nel laboratorio di superconduttività applicata, in cui mi sono occupata dello studio di magneti superconduttori per acceleratori. In particolare, ho seguito la progettazione, caratterizzazione e follow-up industrial della costruzione del dipolo superconduttore di separazione/ricombinazione D2 (MBRD) per l'upgrade Hi-Luminosity dell'acceleratore LHC del CERN. Inoltre, mi sono anche occupata della progettazione e dello studio di fattibilità di un dipolo in Nb₃Sn ad alto campo (16T) per un possibile acceleratore post-LHC. Tale attività è stata svolta all'interno del progetto EuroCircol-FCC e ha portato al finanziamento della costruzione di un modello corto da 12T.

06/2015-09/2015

Progetto
Attività principali

Ricercatore (consulente) presso il centro Ricerche di Frascati dell'ENEA, Dipartimento Tecnologie per la Fusione

ITER – DEMO

Nell'ambito del progetto europeo EUROfusion mi sono occupata di problematiche di neutronica e shielding per il reattore a fusione DEMO, dell'ottimizzazione del suo design e della caratterizzazione dei suoi campi di radiazione (neutroni e γ).

01/2012 – 03/2015
Attività principali

Dottorato di Ricerca in Fisica presso l'Università degli Studi di Genova

Il mio lavoro di dottorato è stato svolto in collaborazione con il laboratorio di fusione termonucleare ITER e ha riguardato lo studio dello shielding neutronico e delle diagnostiche per neutroni per il reattore che tale laboratorio sta costruendo. In particolare, mi sono occupata dello studio della dose occupazionale nella regione chiamata TBM Port Cell per verificare l'adeguatezza del design degli shielding proposti per schermare l'ingente flusso neutronico che ITER produrrà (fino a 10^{14} neutroni/cm²s da 14 MeV).

In parallelo, ho lavorato sullo sviluppo di un rivelatore per neutroni basato sulla tecnologia dei diamanti artificiali di tipo CVD, ottimizzato per l'energia di 14 MeV (pari a quella dei neutroni prodotti dalla fusione di deuterio e trizio) in grado di sopportare forti campi di radiazione. Il prototipo di tale rivelatore è stato testato al generatore di neutroni dell'ENEA di Frascati. Inoltre, durante il mio dottorato ho svolto attività di ricerca presso il laboratorio di fusione termonucleare JET (Culham, UK), grazie a un grant dell'ambasciata Italiana a Londra. La mia attività è stata l'analisi dati dei rivelatori al diamante per il monitoraggio della radiazione UV and X-Ray proveniente dal plasma di fusione termonucleare

ISTRUZIONE

02/01/2012 – 06/03/2015

Dottorato di Ricerca in Fisica

Università degli studi di Genova

Tesi: " Neutron shielding and diagnostics in tokamaks"

Relatori: Prof. Mauro Taiuti, Mikhail Osipenko

Shutdown dose rate evaluation in the TBM Port #16 of ITER. Nuclear analysis focused on neutronics transport calculation, activation evaluation with FISPACT and shutdown dose rate calculation with R2S (Rigorous 2 Steps) approach.

Development and characterization of a neutron spectrometer in proton recoil telescope configuration based on the CVD diamond technology optimized for 1-14 MeV energy range.

01/09/2009 – 27/10/2011

Corso di Laurea specialistica in Fisica Nucleare

Università degli Studi di Genova

Tesi: "Feasibility study of the measurement of the transition weak form factor $N-\Lambda$ "

Relatori: Prof. Mauro Taiuti, Mikhail Osipenko

Voto 110/110 cum laude

01/09/2006 – 13/10/2009

Corso di laurea triennale in Fisica Generale

Università degli studi di Genova

Tesi: "DNA melting: the zip model"

Relatore: Prof. Ugo Valbusa

Voto 110/110

ALLEGATI

1. Lista Conferenze e Workshops
2. Lista Pubblicazioni
3. Lista Technical Reports

Genova, 20/03/2021

Barbara Caiffi

Lista Conferenze e Workshops

- ASC2020, 24 October- 7 November 2020, virtual. Poster presentation “The Development of the Superconducting Dipoles D2 for the High Luminosity Upgrade of LHC”. Proceedings published in IEEE Transactions on Applied Superconductivity, (2021), DOI: 10.1109/TASC.2021.3057561
- ISFNT-14, 22-27 September 2019, Budapest, Hungary. Poster presentation “ Nuclear Analysis in support of the conceptual design of the DTT Tokamak Neutron Diagnostics”. Proceedings published in Fusion Engineering and Design (2020), DOI: 10.1016/j.fusengdes.2020.111629
- FCC Week 2018, 9-13 April 2018, Amsterdam, the Netherlands. Oral presentation “ Cos θ option for FCC”
- EUCAS 2017, 17-21 September 2017, Geneva, Switzerland. Oral presentation “Update on Mechanical Design of a cos θ 16 T bending dipole for the Future Circular Collider (FCC) ” Proceedings published in IEEE Transactions on Applied Superconductivity, (2018), 10.1109/TASC.2018.2805918
- FCC Week 2017, 29 May- 2 June 2017, Berlin, Germany. Oral presentation “Mechanical design of the cos θ option”.
- EuroCirCol Collaboration meeting, 7-9 November 2016, ALBA Synchrotron, Spain. Oral presentation “Cos-theta design”.
- 100° Congresso Nazionale SIF (Società Italiana di Fisica), 22-26 September 2014, Pisa (Italy), Invited Talk “Analisi di attivazione nelle porte sperimentali di ITER.” (Activation analysis in the ITER experimental ports)
- IX ITER Neutronic Meeting, 24-27 June 2014, Frascati –poster “Preliminary Results of Shutdown Dose Rate in TBM Port #16
- Workshop “INFN-Energia e Industria verso Horizon 2020 e nuovi mercati”, Genoa 15-16 January 2014- Oral presentation
- 3rd International Conference Frontiers in Diagnostic Technologies, 25-27 November 2013, Frascati (Italy) – Poster “Analysis of UV and soft X-Ray diagnostic data from CVD Diamond Detectors on the JET Tokamak ” – Proceedings published in Physics Procedia (2015), pp. 79-83 DOI: 10.1016/j.phpro.2015.02.014
- CLAS12 Collaboration Meeting, 12-15 October 2011, Thomas Jefferson Newport News (VA). Oral presentation “Feasibility study of the measurement of the transition weak form factor N_A ”

Lista Pubblicazioni

1. A. Bersani, et al., “A Solenoid with Partial Yoke for the DUNE Near Detector”, IEEE Transactions on Applied Superconductivity, IEEE Transactions on Applied Superconductivity PP(99):1-1, (2021), DOI: 10.1109/TASC.2021.3063068
2. B.Caiffi et al., “The Development of the Superconducting Dipoles D2 for the High Luminosity Upgrade of LHC”, IEEE Transactions on Applied Superconductivity PP(99):1-1, (2021), DOI: 10.1109/TASC.2021.3057561
3. S.Aiello et al. (KM3NeT collaboration), “Architecture and performance of the KM3NeT front-end firmware”, Journal of Astronomical Telescopes Instruments and Systems 7(01) (2021) , DOI:10.1117/1.JATIS.7.1.016001
4. E.Todesco et. al “The High Luminosity LHC interaction region magnets towards series production” , Superconductor Science and Technology (2021), DOI: 10.1088/1361-6668/abdba4
5. S.Aiello et al. (KM3NeT collaboration), “Deep-sea deployment of the KM3NeT neutrino telescope detection units by self-unrolling”, Journal of Instrumentation 15(11) (2020), DOI: 10.1088/1748-0221/15/11/P11027
6. S. Aiello et al. (KM3NeT collaboration), “Event reconstruction for KM3NeT/ORCA using convolutional neural networks”, Journal of Instrumentation 15(10) (2020), DOI: 10.1088/1748-0221/15/10/P10005
7. B.Caiffi et al., “Neutronic analyses in support of the conceptual design of the DTT tokamak radial neutron camera”, Fusion Engineering and Design 157(5–14) (2020), DOI: 10.1016/j.fusengdes.2020.111629
8. D. Flammini et al., “Pre-analysis of the WCLL breeding blanket mock-up neutronics experiment at the Frascati Neutron Generator”, Fusion Engineering and Design 156:111600(2020) DOI: 10.1016/j.fusengdes.2020.111600
9. R.Villari et al., “ Nuclear design of Divertor Tokamak Test (DTT) facility”, Fusion Engineering and Design 155:111551 (2020), DOI: 10.1016/j.fusengdes.2020.111551
10. A. Foussat et al., “The HL-LHC D2 Short model recombination dipole cold test results and analysis”, IEEE Transactions on Applied Superconductivity PP(99):1-1 (2020), DOI: 10.1109/TASC.2020.2976963
11. M. Prioli et al., “The CLIQ quench protection system applied to the 16 T FCC-hh dipole magnets”, IEEE Transactions on Applied Superconductivity PP(99):1-1 (2019), DOI: 10.1109/TASC.2019.2930705
12. A. Abada et al., “FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1”, Eur.Phys.J. C79 (2019) no.6, 474, DOI:10.1140/epjc/s10052-019-6904-3.
13. A. Abada et al., “FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2.”, Eur.Phys.J.ST 228 (2019) no.2, 261-623, DOI: 10.1140/epjst/e2019-900045-4


14. A. Abada et al., "FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3", Eur.Phys.J.ST 228 (2019) no.4, 755-1107, DOI: 10.1140/epjst/e2019-900087-0
15. A. Abada et al., "HE-LHC: The High-Energy Large Hadron Collider", Eur.Phys.J.ST 228 (2019) no.5, 1109-1382, DOI: 10.1140/epjst/e2019-900088-6
16. R. Valente et al., "Baseline Design of a 16 T cos Bending Dipole for the Future Circular Collider", IEEE Transactions on Applied Superconductivity PP(99):1-1 (2019), DOI: 10.1109/TASC.2019.2901604
17. A. Bersani, et al., "The Superconducting Separation Dipoles D2 for the High Luminosity Upgrade of LHC: From Short Model to Prototype", IEEE Transactions on Applied Superconductivity, (2019), DOI:10.1109/TASC.2019. 2900598
18. D. Shoerling et al. "The 16 T dipole development program for FCC and HE-LHC", IEEE Transactions on Applied Superconductivity, (2019), DOI:10.1109/TASC.2019.2900556
19. J. Zhao, et al., "Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the Future Circular Collider" Physica C (Superconductivity and its Applications), DOI:10.1016/j.physc.2018.04.003
20. V. Marinuzzi, et al. "Conceptual Design of a 16 T cos θ Bending Dipole for the Future Circular Collider", IEEE Transactions on Applied Superconductivity, (2018), DOI:10.1109/TASC.2018.2795533
21. B. Caiffi, et al. "Update on mechanical design of a cos θ 16-T bending dipole for the future circular collider", IEEE Transactions on Applied Superconductivity (2018) DOI:10.1109/TASC.2018.2805918
22. D. Tommasini, et al. "Status of the 16 T Dipole Development Program for a Future Hadron Collider", IEEE Transactions on Applied Superconductivity (2017) DOI:10.1109/TASC.2017.2780045
23. P. Fabbriatore, et al., "Development of a Short Model of the Superconducting Separation Dipoles D2 for the High Luminosity Upgrade of LHC", IEEE Transactions on Applied Superconductivity (2017) DOI:10.1109/TASC.2017.2772779
24. V. Marinuzzi, et al. "Quench Protection Study of the Eurocircol 16 T Cos θ Dipole for the Future Circular Collider (FCC)" IEEE Transactions on Applied Superconductivity (2017) DOI: 10.1109/TASC.2017.2656156
25. M. Sorbi et al., "The EuroCirCol 16T Cosine-Theta Dipole Option for the FCC" IEEE Transactions on Applied Superconductivity (2016) DOI: 10.1109/TASC.2016.2642982
26. B. Caiffi et al. "Proton recoil telescope based on diamond detectors for measurement of fusion neutrons", TNS IEEE Transactions on Nuclear Science, (2016) DOI: 10.1109/TNS.2016.2572225.
27. M. Osipenko et al., "Response of diamond detector sandwich to 14 MeV neutrons", Nuclear Inst. and Methods in Physics Research, A 817 (2016), pp. 19-25 DOI: 10.1016/j.nima.2016.02.008
28. B.Caiffi et al. "Analysis of the response of CVD Diamond Detectors for UV and sX-Ray plasma diagnostics installed at JET", Physics Procedia (2015), pp. 79-83 DOI: 10.1016/j.phpro.2015.02.014
29. D.Scarfò et al. "A Preliminary Assessment of the Transmutation Potentialities for an ITER-like FW Sector Loaded with MA", Global Journal of Energy Technology Research Updates (2015), DOI: 10.15377/2409-5818.2015.02.02.4
30. M.Osipenko et al., "Neutron spectrometer for fast nuclear reactors", Nuclear Inst. and Methods in Physics Research, A 799 (2015), pp. 207-213 DOI: 10.1016/j.nima.2015.07.050
31. S.Fegan et al. "Assessing the performance of SICCAS-type PbWO 4 scintillators for use in EM calorimetry in the CLAS12Forward Tagger at Jefferson Lab", Nuclear Inst. And Methods in PhysicsResearch789(2015) Pages 101–108 DOI:10.1016/j.nima.2015.03.073
32. M.Osipenko et al. "Single Crystal Diamonds for Neutrons", EPJ PLUS 129(12) (2014) DOI: 10.1140/epjp/i2014-14268-x
33. B. Caiffi et al. "Characterisation of scCVD diamond detectors with γ sources", Nuclear Inst. And Methods in Physics Research, A 754C (2014), pp. 24-27, DOI:10.1016/j.nima.2014.03.061

Lista Technical Reports

1. B. Caiffi et al., "Dose Rate Analysis for TBM Port #16 after Shutdown" ITER internal report, ITER_D_QZUA22 (2015)
2. B. Caiffi et al. , "Final report of pmi-3.3-t002 neutron streaming assessment in upper port", Deliverable ID PMI-3.3-T002" (2015) EFDA_D_2M6K4T.
3. B. Caiffi et al. Final Report on Deliverable PMI.5.3-04 "Neutron shielding study of the DEMO upper vertical port" (2014) EFDA_D_2APSUF
4. Preprint INFN-13-17/GE M.Osipenko, B. Caiffi et al. , "Comparison of Fast Amplifiers for Diamond Detectors" (2013) airXiv:1310.1000

PERSONAL INFORMATION

Massimo Sorbi

 Università degli Studi di Milano, Dipartimento di Fisica, LASA, via Fratelli Cervi 201, 20054 Segrate – MI, Italy

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

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

Sex M

| 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. Toderò, 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. Fabbriatore, 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. Fabbriatore, 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
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