

Curriculum Vitae

Informazioni personali

Nome Stefania Farinon
indirizzo Via Dodecaneso 33 – 16146 ITALY
e-mail stefania.farinon@ge.infn.it
nazionalità italiana

Formazione e occupazione

Dal 1/1/2021 ad oggi Dirigente Tecnologo presso l'INFN
Dal 2007 al 2020 Primo Tecnologo presso l'INFN
Dal 2001 to 2006 Tecnologo presso l'INFN
Dal 1996 to 2001 Posizione a tempo determinato nell'INFN per una collaborazione tecnica nell'ambito dell'esperimento CMS, con particolare riguardo allo studio dei disturbi e del comportamento meccanico della bobina superconduttrice.
dal 1994 al 1996 Borsa di Studio INFN per la progettazione magnetica meccanica e termica del solenoide superconduttore CMS
1994 Laurea in Fisica discutendo la tesi "Studio teorico e sperimentale della risposta spettrale di superconduttori esposti a campi magnetici variabili"

Progetti di ricerca e collaborazioni scientifiche

dal 2022 ad oggi Posizione: responsabile delle attività della Sezione di Genova dell'INFN dell'esperimento SIG (Superconducting Ion Gantry)
Progettazione meccanica e supervisione dell'assemblaggio di un dimostratore presso i laboratori LASA dell'INFN (Mi).
dal 2019 ad oggi Posizione: responsabile nazionale dell'esperimento INFN FalconD
Progettazione e supervisione della costruzione di un dimostratore di dipolo ad alto campo in Nb₃Sn
dal 2014 ad oggi Posizione: responsabile nazionale dell'esperimento INFN D2
Progettazione e supervisione della costruzione di un modello, di un prototipo e della serie di sei magneti del dipolo superconduttore D2 per l'upgrade ad alta luminosità del Large Hadron Collider al CERN
2015-2019 Posizione: responsabile delle attività INFN del WP5
Progettazione di un dipolo superconduttore da 16 T in Nb₃Sn per il Future Circular Collider al CERN nell'ambito dell'esperimento europeo EuroCircol.
2014-2016 Posizione: responsabile della progettazione
Progettazione e costruzione di un calorimetro per la misura ad altissima accuratezza del calore generato dalla sorgente di antineutrini 100kCi ¹⁴⁴Ce–¹⁴⁴Pr per l'esperimento INFN SOX
2014-2015 Posizione: progettista
Progettazione e costruzione del primo prototipo sui 27 moduli del solenoide di trasporto per l'esperimento Mu2e al Fermilab.
2013-2021 Posizione: collaborazione
Partecipazione agli studi sul rumore elettromagnetico e newtoniano per l'upgrade del rivelatore di onde gravitazionali Virgo

2013-2015	<u>Posizione:</u> progettista Progettazione di un magnete toroidale superconduttore per la schermatura di astroparticelle in missioni interplanetarie con equipaggio per l'esperimento europeo SR2S (Space Radiation Superconductive Shield).
2011-2013	<u>Posizione:</u> collaborazione alla progettazione e ai test Progettazione, costruzione e test di un modello di quadrupolo superconduttore per la regione di interazione della SuperB factory.
2005-2010	<u>Posizione:</u> responsabile della progettazione meccanica Progettazione e costruzione di un dipolo superconduttore a rampa veloce per il sincrotrone FAIR SIS300.
1995-2005	<u>Posizione:</u> progettista e responsabile della Qualità Progettazione e costruzione del solenoide superconduttore CMS al CERN LHC.
2005-2007	<u>Posizione:</u> responsabile delle attività della Sezione di Genova dell'INFN Sviluppo di un conduttore di Nb ₃ Sn ad alte prestazioni per il progetto europeo NED.
2003-2004	<u>Posizione:</u> responsabile delle attività della Sezione di Genova dell'INFN Progettazione del solenoide superconduttore per il ciclotrone SCENT (Superconducting Cyclotron for Exotic Nuclei and Therapy) presso il Laboratorio LNS dell'INFN.
2001-2003	<u>Posizione:</u> progettista Progettazione di un gantry a ioni pesanti per la radioterapia oncologica al centro CNAO.
1994-1996	<u>Posizione:</u> progettista Progettazione e costruzione del solenoide superconduttore BABAR per l'impianto SLAC di Stanford.
Incarichi editoriali	
dal 2005 ad oggi	<u>Editore</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti gli atti della Applied Superconductivity Conference e della Magnet Technology Conference.
dal 2019 ad oggi	<u>Editore</u> dei numeri regolari della rivista "IEEE Transaction on Applied Superconductivity"
Incarichi speciali:	
2005	<u>Chief Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 19 th Magnet Technology Conference.
2007	<u>Chief Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 20 th Magnet Technology Conference.
2009	<u>Lead Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 21 st Magnet Technology Conference
2010	<u>Chief Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 2010 Applied Superconductivity Conference.
2011	<u>Chief Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 22 nd Magnet Technology Conference.
2012	<u>Lead Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 2012 Applied Superconductivity Conference.
2013	<u>Chief Editor</u> della rivista "IEEE Transaction on Applied Superconductivity" per i numeri contenenti i proceeding della 23 rd Magnet Technology Conference.
2013	<u>Chief Editor</u> di "Journal of Physics: Conference Series" per la 2013 European Conference on Applied Superconductivity
Comitati scientifici	
2013	Membro del Comitato del Programma Scientifico della 23 rd Magnet Technology Conference.
2013	Membro del Comitato del Programma Scientifico della 2013 European Conference on Applied Superconductivity.
2014-2018	Membro eletto dell'Applied Superconductivity Conference Board Committee.

2014	Membro del Comitato del Programma Scientifico della 2014 Applied Superconductivity Conference
2016	Membro del Comitato del Programma Scientifico della 2016 Applied Superconductivity Conference
2018	Membro del Comitato del Programma Scientifico della 2018 Applied Superconductivity Conference
2019	Membro del Comitato del Programma Scientifico della 2019 European Conference on Applied Superconductivity.
2023	Membro del Comitato del Programma Scientifico della 2023 European Conference on Applied Superconductivity.

Attività e incarichi accademici

dall'A.A. 2021-2022 ad oggi

dall'A.A. 2018-2019 ad oggi

da Febbraio 2021 ad oggi

Docente per la Laurea Magistrale in Fisica: "Fisica e tecnologia dei magneti superconduttori" (24 ore)

Docente nel corso della Scuola di Dottorato in Fisica: "Progettazione di magneti superconduttori" (20 ore)

Membro del Collegio di Dottorato in Fisica

Relatrice delle seguenti tesi di laurea Magistrale:

A.A. 2000-2001 Luca Reina, Ingegneria meccanica

Tesi dal titolo: "Ottimizzazione dei parametri caratteristici di un magnete superconduttore tramite analisi FEM pilotate da algoritmi genetici"

A.A. 2001-2002 Thomas Coltella, Ingegneria meccanica

Tesi dal titolo: "Progetto meccanico delle strutture di contenimento di un magnete superconduttore per adroterapia oncologica"

A.A. 2018-2019 Filippo Levi, Fisica

Tesi dal titolo: "Studio degli effetti meccanici, magnetici e termici sulla qualità di campo di dipoli superconduttori per acceleratori adronici e del dipolo D2 per l'upgrade High-Luminosity di LHC"

A.A. 2019-2020 Ludovico Musenich, Ingegneria meccanica

Tesi dal titolo: "Modellazione FEM per la verifica strutturale del telaio portante del rivelatore di materia oscura DarkSide-20k"

A.A. 2020-2021 Gianluca Vernassa, Ingegneria meccanica

Tesi dal titolo: "Thermomechanical and electromagnetic analyses on a superconducting demonstrator magnet for Hadron Therapy"

A.A. 2020-2021 Francesco Lonardo, Ingegneria nucleare

Tesi dal titolo: "The D2 magnets for the LHC Luminosity upgrade: from prototype to series construction"

A.A. 2021-2022 Nicola Sala, Ingegneria meccanica

Tesi dal titolo: "Design and Optimization of the 2D cross-section for high field Nb3Sn magnets towards future accelerators"

A.A. 2022-2023 Emma Bianchi, Ingegneria meccanica

Tesi dal titolo: "Progettazione della struttura meccanica del dipolo superconduttore SIG per un gantry a ioni"

A.A. 2023-2024 Elena Cereghino

Tesi dal titolo: "Analisi sperimentale e numerica di tecnologie innovative di magneti superconduttori per le future applicazioni mediche e di fisica delle alte energie"

Supervisore delle seguenti tesi di Dottorato in Fisica:

XXXV Ciclo (2019) Filippo Levi

Tesi dal titolo: "Optimization and control of the field quality and the mechanical structure of superconducting dipoles for future accelerators"

**Capacità e competenze
personali**

Lingue
Capacità e competenze
tecniche

XXXVI Ciclo (2020) Sergio Burioli

Tesi dal titolo: "Mechanical effects on the performances of the superconducting cables and magnets for future accelerators"

XXXVIII Ciclo (2022) Daniel Novelli

Tesi dal titolo: "Development of superconducting magnets for the future FCC-hh and Muon Collider accelerators"

XXXIX Ciclo (2023) Alessio Dellacasagrande

Tesi dal titolo: "Conceptual electromagnetic design of the detector magnet for the ALICE 3 upgrade"

Buon inglese, parlato e scritto, conoscenza del francese

conoscenza approfondita della progettazione con strumenti ad elementi finiti

GENOVA, 20 maggio 2025

Stefania Farinon

2024

- 1. GWTC-2.1: Deep extended catalog of compact binary coalescences observed by LIGO and Virgo during the first half of the third observing run**
LIGO Sci Collaboration ; LIGO Sci Collaboration ; Virgo Collaboration
PHYSICAL REVIEW D Volume: 109 Issue: 2 Article Number: 022001 DOI: 10.1103/PhysRevD.109.022001 Published: JAN 2024.
- 2. Towards a muon collider**
Accettura, C; Adams, D; (...); Zurita, J
EUROPEAN PHYSICAL JOURNAL C Volume: 84 Issue 1 Article Number: 36 DOI: 10.1140/epjc/s10052-023-12257-5 Published: JAN 2024.
- 3. IRIS-A New Distributed Research Infrastructure on Applied Superconductivity**
Rossi, L; Arpaia, P; (...); Vannozzi, A
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 3 Article Number: 9500309 DOI: 10.1109/TASC.2023.3341984 Published: MAY 2024.
- 4. Status on the Development of the Nb₃Sn 12 T Falcon Dipole for the FCC-hh**
Valente, RU; Ballarino, A; (...); Vernassa, G
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 3 Article Number: 4900405 DOI: 10.1109/TASC.2023.3338166 Published: MAY 2024.
- 5. Magnets for a Muon Collider-Needs and Plans**
Bottura, L; Accettura, C; (...); Zlobin, A
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4005708 DOI: 10.1109/TASC.2024.3382069 Published: AUG 2024.
- 6. MBRD Prototype Cold Tests: Mechanical Stability and Performances**
Bersani, A; Bracco, M; (...); Willering, G
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4005005 DOI: 10.1109/TASC.2024.3371938 Published: AUG 2024.
- 7. Analytical Evaluation of Dipole Performance Limits for a Muon Collider**
Novelli, D; Bersani, A; (...); Valente, R
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4002405 DOI: 10.1109/TASC.2024.3352526 Published: AUG 2024.
- 8. Validation of the Protection Scheme for the HL-LHC MBRD Magnet by Simulations and Prototype Tests**
Caiffi, B; Bender, L; (...); Willering, G
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4001405 DOI: 10.1109/TASC.2023.3346363 Published: AUG 2024.
- 9. The Development of MBRD Magnets, the Separation/Recombination Dipoles for the LHC High Luminosity Upgrade**
Farinon, S; Angius, S; (...); Willering, G
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4003205 DOI: 10.1109/TASC.2024.3357469 Published: AUG 2024.
- 10. First Winding Trial for the Superconducting Ion Gantry (SIG) Dipole Demonstrator Magnet**
Prioli, M; Bianchi, E; (...); Karppinen, M
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4402605 DOI: 10.1109/TASC.2024.3361440 Published: AUG 2024.

11. Magnesium Diboride Magnets for Future Particle Detectors

Musenich, R; Bersani, A; (...); Farinon, S

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4500304 DOI: 10.1109/TASC.2023.3342760 Published: AUG 2024.

12. Field Quality Analysis of the Separation-Recombination Dipole MBRD for the High-Luminosity Upgrade of LHC

Pampaloni, A; Bersani, A; (...); Willering, G

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4000505 DOI: 10.1109/TASC.2023.3345826 Published: AUG 2024.

13. Mechanical Design of the 4 T Curved Demonstrator Dipole for the SIG Gantry

Levi, F; Bersani, A; (...); Valente, R

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4400505 DOI: 10.1109/TASC.2023.3333262 Published: AUG 2024.

14. 2D EM Design and Innovative Winding Technique for a 4 T High Curvature Superconducting Dipole in Block Coil Configuration for Next Generation Ion Gantries

Gagno, A; Farinon, S; (...); Valente, RU

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 34 Issue 5 Article Number: 4400305 DOI: 10.1109/TASC.2023.3335181 Published: AUG 2024.

2023

15. Mu2e Run I Sensitivity Projections for the Neutrinoless $\mu(-) \rightarrow e(-)$ Conversion Search in Aluminum

Mu2e Collaboration

UNIVERSE Volume: 9 Issue: 1 Article Number: 54 DOI: 10.3390/universe9010054 Published: JAN 2023.

16. Population of Merging Compact Binaries Inferred Using Gravitational Waves through GWTC-3

LIGO Sci Collaboration; Virgo Collaboration; Kagra Collaboration

PHYSICAL REVIEW X Volume: 13 Issue: 1 Article Number: 11048 DOI: 10.1103/PhysRevX.13.011048 Published: MAR 2023.

17. The superconducting space magnet of the ALADInO spectrometer

Musenich, R; Bersani, A; Bracco, M; Burioli, S; Caiffi, B; Farinon, S; Gagno, A; Levi, F; Pampaloni, A

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 1051 Article Number: 168239 DOI: 10.1016/j.nima.2023.168239 Published: JUN 2023.

18. Constraints on the Cosmic Expansion History from GWTC-3

LIGO Sci Collaboration; LIGO Sci Collaboration; Virgo Collaboration; Virgo Collaboration; KAGRA Collaboration

ASTROPHYSICAL JOURNAL Volume: 949 Issue: 2 Article Number: 76 DOI: 10.3847/1538-4357/ac74bb Published: JUN 2023.

19. Status and Challenges of the Interaction Region Magnets for HL-LHC

Todesco, E; Bermudez, SI; (...); Cooley, L

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 33 Issue: 5 Article Number: 4001608 DOI: 10.1109/TASC.2023.3244143 Published: AUG 2023.

20. Design of a 4 T Curved Demonstrator Magnet for a Superconducting Ion Gantry

Prioli, M; De Matteis, E; (...); Valente, RU

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 33 Issue: 5 Article Number: 4400505 DOI: 10.1109/TASC.2023.3244523 Published: AUG 2023.

21. Protection Scheme Effectiveness Study for the High-Luminosity LHC MBRD Magnet

Caiffi, B; Bender, L; (...); Willering, G

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS

DETECTORS AND ASSOCIATED EQUIPMENT Volume: 33 Issue 5 Article Number: 4701304 DOI: 10.1109/TASC.2023.3247984 Published: AUG 2023.

22. Updates on the Mechanical Design of FalconD, a Nb₃Sn Cos theta Short Model Dipole for FCC-hh

Levi, F; Ballarino, A; (...); Wachal, P

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 33 Issue: 5 Article Number: 4000805 DOI: 10.1109/TASC.2023.3241832 Published: AUG 2023.

23. Optimization of Electromagnetic Design After Winding Tests for the Nb₃Sn Cos-Theta Dipole Model for FCC-hh

Valente, RU; Ballarino, A; (...); Vernassa, G

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY D Volume: 33 Issue: 5 Article Number: 4601107 DOI: 10.1109/TASC.2023.3246421 Published: AUG 2023.

24. The MBRD Dipoles for the Luminosity Upgrade at the LHC: From Prototype Tests to the Series Production

Farinon, S; Angius, S; (...); Willering, G

IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY D Volume: 33 Issue: 5 Article Number: 4000306 DOI: 10.1109/TASC.2023.3238988 Published: AUG 2023.

25. Virgo detector characterization and data quality: results from the O3 run

Acernese, F; Agathos, M; (...); Zendri, JP

CLASSICAL AND QUANTUM GRAVITY Volume: 40 Issue 18 Article Number: 185006 DOI: 10.1088/1361-6382/acd92d Published: SEP 2023.

26. Virgo detector characterization and data quality: tools

Accettura, C; Adams, D; (...); Zurita, J

CLASSICAL AND QUANTUM GRAVITY Volume: 40 Issue 18 Article Number: 185005 DOI: 10.1088/1361-6382/acdf36 Published: SEP 2023.

27. Towards a muon collider

Acernese, F; Agathos, M; (...); Zendri, JP

EUROPEAN PHYSICAL JOURNAL C Volume: 83 Issue 9 Article Number: 864 DOI: 10.1140/epjc/s10052-023-11889-x Published: SEP 2023.

28. Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB during the LIGO-Virgo Observing Run O3a

LIGO Sci Collaboration; LIGO Sci Collaboration; Virgo Collaboration; Virgo Collaboration; KAGRA Collaboration; CHIME FRB Collaboration

ASTROPHYSICAL JOURNAL Volume: 955 Issue 2 Article Number: 155 DOI: 10.3847/1538-4357/acd770 Published: OCT 2023.

29. GWTC-3: Compact Binary Coalescences Observed by LIGO and Virgo during the Second Part of the Third Observing Run

LIGO Sci Collaboration; Virgo Collaboration; KAGRA Collaboration

PHYSICAL REVIEW X Volume: 13 Issue 4 Article Number: 41039 DOI: 10.1103/PhysRevX.13.041039 Published: DEC 2023.

2022

30. Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data

Abbott, R; Abbott, TD; (...); Strohmayer, TE

PHYSICAL REVIEW D Volume: 105 Issue: 2 Article Number: 022002 DOI: 10.1103/PhysRevD.105.022002 Published: JAN 19 2022

31. Can electrons neutralize the electrostatic charge on test mass mirrors in gravitational wave detectors?

Spallino, L; Angelucci, M; (...); Cimino, R

PHYSICAL REVIEW D Volume: 105 Issue: 4 Article Number: 042003 DOI: 10.1103/PhysRevD.105.042003 Published: FEB 17 2022

- 32. Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3**
Acernese, F; Agathos, M; (...); Zendri, JP
CLASSICAL AND QUANTUM GRAVITY Volume: 39 Issue: 4 Article Number: 045006 DOI: 10.1088/1361-6382/ac3c8e
Published: FEB 17 2022
- 33. Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo**
Abbott, R; Abbott, TD; (...); Zweizig, J
ASTRONOMY & ASTROPHYSICS Volume: 659 Article Number: A84 DOI: 10.1051/0004-6361/202141452 Published:
MAR 16 2022
- 34. Constraints on dark photon dark matter using data from LIGO's and Virgo's third observing run**
Abbott, R; Abbott, TD; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 105 Issue: 6 Article Number: 063030 DOI: 10.1103/PhysRevD.105.063030 Published:
MAR 31 2022
- 35. Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3b**
Abbott, R; Abbott, TD; (...); Zweizig, J
ASTROPHYSICAL JOURNAL Volume: 928 Issue: 2 Article Number: 186 DOI: 10.3847/1538-4357/ac532b Published:
APR 1 2022
- 36. Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants**
Abbott, R; Abbott, TD; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 105 Issue: 8 Article Number: 082005 DOI: 10.1103/PhysRevD.105.082005 Published:
APR 28 2022
- 37. All-sky search for gravitational wave emission from scalar boson clouds around spinning black holes in LIGO O3 data**
Abbott, R; Abe, H; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 105 Issue: 10 Article Number: 102001 DOI: 10.1103/PhysRevD.105.102001
Published: MAY 9 2022
- 38. Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run**
Abbott, R; Abbott, TD; (...); Weltevrede, P
ASTROPHYSICAL JOURNAL Volume: 932 Issue: 2 Article Number: 133 DOI: 10.3847/1538-4357/ac6ad0 Published:
JUN 1 2022
- 39. A European Collaboration to Investigate Superconducting Magnets for Next Generation Heavy Ion Therapy**
Rossi, L; Ballarino, A; (...); Vieweg, M
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 4 Article Number: 4400207 DOI:
10.1109/TASC.2022.3147433 Published: JUN 2022
- 40. Update on the Electromagnetic Design of the Nb3Sn Cos-Theta Dipole Model for FCC-hh**
Valente, RU; Burioli, S; (...); Tommasini, D
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 4 Article Number: 4001005 DOI:
10.1109/TASC.2022.3152100 Published: JUN 2022
- 41. All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO's and Advanced Virgo's first three observing runs**
Abbott, R; Abe, H; (...); Zweizig, J
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 105 Issue: 12 Article Number: 122001 DOI:
10.1103/PhysRevD.105.122001 Published: JUN 2022

- 42. First joint observation by the underground gravitational-wave detector KAGRA with GEO 600**
Abbott, R; Abe, H; (...); Zweizig, J
PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS Volume: 2022 Issue: 6 Article Number: 063F01 DOI: 10.1093/ptep/ptac073 Published: JUN 9 2022
- 43. Searches for Gravitational Waves from Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs**
Abbott, R; Abe, H; (...); Weltevrede, P
ASTROPHYSICAL JOURNAL Volume: 935 Issue: 1 Article Number: 1 DOI: 10.3847/1538-4357/ac6acf Published: AUG 1 2022
- 44. Search for Subsolar-Mass Binaries in the First Half of Advanced LIGO's and Advanced Virgo's Third Observing Run**
Abbott, R; Abe, H; (...); Weltevrede, P
PHYSICAL REVIEW LETTERS Volume: 129 Issue: 6 Article Number: 061104 DOI: 10.1103/PhysRevLett.129.061104 Published: AUG 5 2022
- 45. Search for continuous gravitational wave emission from the Milky Way center in O3 LIGO-Virgo data**
Abbott, R; Abe, H; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 106 Issue: 4 Article Number: 042003 DOI: 10.1103/PhysRevD.106.042003 Published: AUG 9 2022
- 46. A Complete Magnetic Design and Improved Mechanical Project for the DUNE ND-GAr Solenoid Magnet**
Bersani, A; Bross, AD; (...); Pallavicini, M
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 6 Article Number: 4500204 DOI: 10.1109/TASC.2022.3162168 Published: SEP 2022
- 47. The Separation-Recombination Dipole MBRD for the High-Luminosity LHC: From Prototype to Series**
Levi, F; Bersani, A; (...); Todesco, E
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 6 DOI: 10.1109/TASC.2022.3160975 Published: SEP 2022
- 48. Preliminary Study of 4 T Superconducting Dipole for a Light Rotating Gantry for Ion-Therapy**
Rossi, L; Benedetto, E; (...); Valente, RU
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 6 Article Number: 4400506 DOI: 10.1109/TASC.2022.3157663 Published: SEP 2022
- 49. Numerical Model, Parametric Analysis, and Optimization of FCC's 16 T Main Dipole Baseline Design**
Kokkinos, C; Farinon, S; (...); Rodopoulos, D
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 6 Article Number: 4001306 DOI: 10.1109/TASC.2022.3152710 Published: SEP 2022
- 50. Mechanical Design of FalconD, a Nb3Sn Cos theta Short Model Dipole for the FCC**
Pampaloni, A; Bellomo, G; (...); Valente, RU
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY Volume: 32 Issue: 6 Article Number: 4000605 DOI: 10.1109/TASC.2022.3149679 Published: SEP 2022
- 51. Search for gravitational waves from Scorpius X-1 with a hidden Markov model in O3 LIGO data**
Abbott, R; Abe, H; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 106 Issue: 106 Article Number: 062002 DOI: 10.1103/PhysRevD.106.062002 Published: SEP 21 2022
- 52. All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO and Advanced Virgo O3 data**
Abbott, R; Abe, H; (...); Zweizig, J
PHYSICAL REVIEW D Volume: 106 Issue: 10 Article Number: 102008 DOI: 10.1103/PhysRevD.106.102008 Published: NOV 28 2022

53. The Virgo O3 run and the impact of the environment

Abbott, R; Abe, H; (...); Zweizig, J

CLASSICAL AND QUANTUM GRAVITY Volume: 39 Issue: 23 Article Number: 063F01 DOI: 10.1088/1361-6382/ac776a Published: DEC 1 2022

2021

54. A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo (vol 908, 218, 2021)

Abbott, R; Abbott, TD; (...); Zweizig, J

PHYSICAL REVIEW D Volume 104 Issue 12 Article Number 122004 DOI 10.1103/PhysRevD.104.122004 Published DEC 2021

55. A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo (vol 908, 218, 2021)

Abbott, R; Abbott, TD; (...); Zweizig, J

ASTROPHYSICAL JOURNAL Volume 923 Issue 2 Article Number 279 DOI 10.3847/1538-4357/ac4267 Published DEC 2021

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Giacomo Livan

Curriculum Vitae

Current Position

Associate Professor – Department of Physics, University of Pavia
Via Bassi 6, 27100 Pavia (Italy)

Employment History

2021-2023: Associate Professor

Department of Computer Science, University College London
and
Systemic Risk Centre,
London School of Economics and Political Science

2016-2021: Senior Research Fellow – EPSRC Early Career Fellow in Digital Economy

Department of Computer Science, University College London
and
Systemic Risk Centre,
London School of Economics and Political Science

2014-2015: Research Associate

Financial Computing & Analytics Group,
Department of Computer Science, University College London
and
Systemic Risk Centre,
London School of Economics and Political Science

2011-2014: Postdoctoral Fellow

Condensed Matter & Statistical Physics Group,
Abdus Salam International Centre for Theoretical Physics (ICTP) - Trieste, Italy

Education

2008-2011: Ph.D. in Physics

Università degli Studi di Pavia - Pavia, Italy & Jagiellonian University - Krakow, Poland (joint international PhD programme)

2006-2008: Master's Degree in Theoretical Physics, *Summa cum Laude*

Università degli Studi di Pavia - Pavia, Italy

2003-2006: Bachelor's Degree in Physics, *Summa cum Laude*

Qualifications

2019-: Member of the UK Higher Education Academy

Grants & Awards

2021-2023: *Leveraging insights from sports analytics to quantify academic impact*, Leverhulme Trust Research Project Grant (£135,560) – **Principal Investigator**

2021-2025: *Calibration of predictive agent-based models of opinion dynamics*, fully funded PhD studentship, UK Engineering and Physical Sciences Research Council (£98,488) – **Primary Supervisor**

2020: Eugene Garfield Award for innovation in citation analysis (\$ 25,000 monetary prize plus unrestricted access to Web of Science database for research purposes)

2020-2021: *Network Methods for the Generation of Synthetic datasets*, JPMorgan Chase Faculty Research Award (\$ 112,600) – **Co-Investigator**

2019-2020: *Incentives and Governance Models for Decentralized Exchanges Operating in the Crypto-Asset Eco system*, UCL Centre for Blockchain Technologies Grant (£30,000) – **Principal Investigator**

2019-2020: *Decentralized Economics: Optimal Incentives and Structures*, UCL Centre for Blockchain Technologies Grant (£30,000) – **Co-Investigator**

2016-2020: *Reputation, trust, and privacy in the Sharing Economy: A network science approach*, Early career Fellowship, UK Engineering and Physical Sciences Research Council (£807,635) – **Principal Investigator**

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- C. Eom, T. Kaizoji, G. Livan, and E. Scalas, *Limitations of portfolio diversification through fat tails of the return distributions: Some empirical evidence*, North American Journal of Economics and Finance **56** 101358 (2021)
- R. Marcaccioli and G. Livan, *Correspondence between temporal correlations in time series, inverse problems, and the spherical model*, Physical Review E **102** 012112 (2020)
- R. Marcaccioli and G. Livan, *Maximum Entropy approach to multivariate time series randomization*, Nature Scientific Reports **10**, 10656 (2020)
- S. Stern, G. Livan, and R. E. Smith, *A network perspective on intermedia agenda-setting*, Applied Network Science **5**, 31 (2020)
- O. Sikder, R. E. Smith, P. Vivo, and G. Livan, *A minimalistic model of bias, polarization and misinformation in social networks*, Nature Scientific Reports **10**, 5493 (2020)
- W. Li, T. Aste, F. Caccioli, and G. Livan, *Early coauthorship with top scientists predicts success in academic careers*, Nature Communications **10**, 5170 (2019)
- G. Livan, *Don't follow the leader: how ranking performance reduces meritocracy*, Royal Society Open Science, **6**(11) (2019)
- W. Li, T. Aste, F. Caccioli, and G. Livan, *Reciprocity and impact in academic careers*, EPJ Data Science, **8**:20 (2019)
- V. Koh, W. Li, H. Livan, and L. Capra, *Offline biases in online platforms: a study of diversity and homophily in Airbnb*, EPJ Data Science, **8**:11 (2019)
- R. Marcaccioli and G. Livan, *A Pólya urn approach to information filtering in complex networks*, Nature Communications **10**, 745 (2019)
- M. Zloteanu, N. Harvey, D. Tuckett, and G. Livan, *Digital identity: The effect of trust and reputation information on user judgement in the Sharing Economy*, PLoS ONE **13**(12), e0209071 (2018)
- G. Livan, F. Caccioli, and T. Aste, *Excess reciprocity distorts reputation in online social networks*, Nature Scientific Reports **7**, 3551 (2017)
- M. Bardoscia, G. Livan, and M. Marsili, *Statistical mechanics of complex economies*, Journal of Statistical Mechanics: Theory and Experiment, 043401 (2017)
- Z. Burda, G. Livan, and P. Vivo, *Invariant sums of random matrices and the onset of level repulsion*, Journal of Statistical Mechanics: Theory and Experiment, P06024 (2015)
- G. Livan, S. Alfarano, M. Milaković, and E. Scalas, *A spectral perspective on excess volatility*, Applied Economics Letters **22** 745 (2014)
- M. Filiassi, G. Livan, M. Marsili, M. Peressi, E. Vesselli, and E. Zarinelli, *On the concentration of large deviations for fat tailed distributions, with application to financial data*, Journal of Statistical Mechanics: Theory and Experiment, P09030 (2014)
- Z. Burda, G. Livan, and A. Swiech, *Commutative law for products of infinitely large isotropic random matrices*, Physical Review E **88**, 022107 (2013)
- G. Livan and M. Marsili, *What do leaders know?*, Entropy **15**, 3031 (2013)
- M. Bardoscia, G. De Luca, G. Livan, M. Marsili, and C.J. Tessone, *The social climbing game*, Journal of Statistical Physics **151**, 440 (2013)

- M. Bardoscia, G. Livan, and M. Marsili, *Financial instability from local market measures*, Journal of Statistical Mechanics: Theory and Experiment, P08017 (2012)
- G. Livan, J. Inoue, and E. Scalas, *On the non-stationarity of financial time series: impact on optimal portfolio selection*, Journal of Statistical Mechanics: Theory and Experiment, P07025 (2012)
- G. Livan and L. Rebecchi, *Asymmetric correlation matrices: an analysis of financial data*, European Physical Journal B **85**, 213 (2012)
- G. Livan, S. Alfarano, and E. Scalas, *The fine structure of spectral properties for random correlation matrices: an application to financial markets*, Physical Review E **84**, 016113 (2011)
- G. Livan and P. Vivo, *Moments of Wishart-Laguerre and Jacobi ensembles of random matrices: application to the quantum transport problem in chaotic cavities*, Acta Physica Polonica **42**, 1081 (2011)
- Z. Burda, A. Jarosz, G. Livan, M. A. Nowak, and A. Swiech, *Eigenvalues and singular values of products of rectangular Gaussian random matrices (the extended version)*, Acta Physica Polonica **42**, 939 (2011)
- Z. Burda, A. Jarosz, G. Livan, M. A. Nowak, and A. Swiech, *Eigenvalues and singular values of products of rectangular Gaussian random matrices*, Physical Review E **82**, 061114 (2010)
- G. Bormetti, V. Cazzola, D. Delpini, and G. Livan, *Accounting for risk of non linear portfolios*, European Physical Journal B **76**, 157 (2010)
- G. Bormetti, V. Cazzola, G. Livan, G. Montagna, and O. Nicosini, *A generalized Fourier transform approach to risk measures*, Journal of Statistical Mechanics: Theory and Experiment, P01005 (2010)

Books and Chapters

- G. Livan, M. Novaes, P. Vivo, Random Matrix Theory – Theory and practice (Springer, 2018)
- F. Caccioli, G. Livan, and T. Aste, *Scalability and Egalitarianism in Peer-to-Peer Networks*, Banking Beyond Banks and Money (Springer, 2016)

Invited Talks and Seminars

- 08/2024:** Summer school of the Italian Statistical Physics Society (SIFS) – Catania, Italy
Title: *Introduction to random matrix theory*
- 05/2024:** Workshop on limits to collective agency – ICTP, Trieste, Italy
Title: *Impact, inequality and success in academic careers*
- 02/2024:** Winter School on Social Sciences for Global Challenges – Pavia, Italy
Title: *Tackling global challenges with the Physics of Complex Systems*
- 05/2023:** NetPlace seminar series (held online)
Title: *Leveraging bibliometric data to understand academic impact*
- 04/2023:** Workshop on inequalities across scales, space, time and domains – ICTP, Trieste, Italy
Title: *On the determinants of inequalities in scientific careers*
- 08/2021:** Workshop on Science of Innovation and Success – Tokyo, Japan (held online)
Title: *On the funding performance of interdisciplinary researchers*
- 07/2021:** NetSci satellite Workshop on Quantifying Success – Washington, DC (held online)
Title: *Leveraging academic networks to understand scientific impact*
- 06/2021:** 1st Workshop of the Italian Statistical Physics Society – Parma, Italy (held online)
Title: *Leveraging academic networks to understand scientific impact*
- 07/2020:** Workshop on Socioeconomic Networks and Network Science – Tokyo, Japan (held online)
Title: *Leveraging academic networks to understand scientific impact*
- 01/2020:** Clarivate Analytics – London, UK
Title: *Leveraging academic networks to understand scientific impact*
- 11/2019:** Workshop on misinformation in social networks – Fribourg, Switzerland

Title: *Learning in biased social networks*

03/2019: Central European University – Budapest, Hungary

Title: *Detecting and measuring bias in online platforms: A Network Science approach*

04/2018: University of Bologna, Department of Mathematics – Bologna, Italy

Title: *Detecting and measuring bias in online platforms: A Network Science approach*

04/2018: University of Modena and Reggio Emilia, Department of Economics – Modena, Italy

Title: *Detecting and measuring bias in online platforms: A Network Science approach*

02/2017: School of Electronics and Computer Science – Southampton, UK

Title: *Reciprocity-induced bias in digital reputation*

11/2016: OECD, Directorate for Science, Technology and Innovation – Paris, France

Title: *Reciprocity-induced bias in digital reputation*

07/2016: Econophysics Colloquium – Sao Paulo, Brazil

Title: *Complexity driven collapses in large random economies*

12/2015: 9th International Conference on Computational and Financial Econometrics – London, UK

Title: *Complexity driven collapse of economic equilibria*

05/2015: University of Palermo, Physics Department – Palermo, Italy

Title: *Criticality in input-output models of heterogeneous firms*

11/2014: Centre for Complexity Science, Warwick University – Warwick, UK

Title: *Social networks: a perspective from Statistical Physics*

07/2014: 4th $\Sigma\Phi$ International Conference on Statistical Physics – Rhodes, Greece

Title: *Pricing in a complex financial market: instability from local measures*

01/2014: Eurandom Workshop on Networks with Community Structure – Eindhoven, The Netherlands

Title: *Social networks: a perspective from Statistical Physics*

11/2012: Otto Friedrich Universität, Economics Department – Bamberg, Germany

Title: *A spectral perspective on the correlations in real and financial returns*

06/2012: IMT Institute for Advanced Studies – Lucca, Italy

Title: *Random Matrix Theory: application to financial data analysis*

10/2011: Basque Centre for Applied Mathematics – Bilbao, Spain

Title: *Random Matrix Theory: application to financial data analysis*

11/2010: Jaume I University, Economics Department – Castelló de la Plana, Spain

Title: *A Fourier approach to financial risk measures*

09/2010: 23rd Smoluchowski Symposium on Statistical Physics – Jagiellonian University, Kraków, Poland

Title: *Eigenvalues and singular values of products of Gaussian random matrices*

Scholarly Service

2020-: Program Committee member for the CompleNet conference (held annually)

2020-: Program Committee member for the NetSci conference (held annually)

2019-: Program Committee member for the Complex Networks conference (held annually)

2017-2020: Elected member of the Complex Systems Society council

2020: Advisory board member for the 2020 SigmaPhi Conference on Statistical Physics – Chania, Greece (postponed to 2021)

2019: Organiser of the 2019 Workshop on the Economics of Heterogeneous Interacting Agents (WEHIA) – London, UK

2017: Organiser of the $\Sigma\Phi$ Workshop on Statistical Physics for the Digital Economy – Corfu, Greece

2016: Member of the steering committee for the 2016 Workshop on the Economics of Heterogeneous Interacting Agents (WEHIA) – Castelló de la Plana, Spain

Teaching

2023-: Statistical Mechanics, Università degli Studi di Pavia

2022-: Problem solving in Physics, Università degli Studi di Pavia

2021-2023: Machine Learning with Applications in Finance (COMP0050), UCL, MSc in Financial Risk Management

2019-2023: Financial Data and Statistics (COMP0040), UCL, MSc in Financial Risk Management

2017-2023: Data Science (COMP0047), UCL, MSc in Computational Finance

2015: Time Series (temporary lecturer for a mini module in the course “Topics in Mathematics”), King’s College London

2012-2013: Tutorials on Numerical Methods, ICTP Diploma Programme

2012: Tutorials on Statistical Mechanics, ICTP Diploma Programme

2010: Tutorials on Financial Mathematics, Università degli Studi di Pavia

Supervision

PhD students

- Federico Quetti (2023-2026)
- Federica De Domenico (2022-2025)
- Cara Lynch (2021-2024)
- Diana Riazzi (2021-2024, graduated)
- Mingtang Li (2020-2023, graduated)
- Sonja Tilly (2019-2022, graduated)
- Samuel Stern (2018-2021, graduated)
- Riccardo Marcaccioli (2017-2020, graduated)

Postdoctoral researchers

- Ye Sun (2021-2023 – hired on Leverhulme Trust Research Project Grant)
- Weihua Li (2017-2020 – hired on EPSRC Early Career Fellowship, now Postdoctoral Fellow at the Max Planck Institute for Human Development, Berlin, Germany)
- Mircea Zloteanu (2017-2018 – hired on EPSRC Early Career Fellowship, now Lecturer at Kingston University, London, UK)

Past supervision

2014-: Supervisor of more than 60 dissertations of the MSc programmes in Financial Risk Management, Computational Finance, Web Science and Data Analytics, University College London

2014-: Supervisor of 18 dissertations of the BSc programme in Computer Science, University College London

2011: Co-supervisor of the thesis *Random Matrix Theory and its applications to Econophysics* (Master’s Degree in Theoretical Physics) by L. Rebecchi, University of Pavia

Peer Review and Editorial Activity

Editorial board member for

- Nature Humanities & Social Sciences Communications (former Palgrave Communications)
- Frontiers in Research Metrics & Analytics
- Data driven modelling

Peer reviewer for

- PNAS

- Science Advances
- Nature Physics
- Nature Communications
- Nature Scientific Reports
- Journal of Statistical Mechanics: Theory and Experiment
- Physical Review E
- European Physical Journal B
- Physica A
- Advances in Complex Systems
- PLoS ONE
- Journal of Informetrics
- Journal of Economic Behavior and Organization
- Journal of Economic Interaction and Coordination
- Quantitative Finance

CURRICULUM VITAE



INFORMAZIONI PERSONALI

Nome(i) / Cognome(i) **Cecilia Rossi**

ESPERIENZA PROFESSIONALE

Date	Gennaio 2020 – Oggi
Lavoro o posizione ricoperti	Primo Tecnologo
Principali attività e responsabilità	Responsabile dell'ufficio di progettazione meccanica Responsabile scientifico stampante 3D metallica dal 2022
Nome e indirizzo del datore di lavoro	INFN (Istituto Nazionale di Fisica Nucleare)
Tipo di attività o settore	Ingegneria Meccanica e Civile
Date	Gennaio 2015 – Gennaio 2020
Lavoro o posizione ricoperti	Tecnologo
Principali attività e responsabilità	Responsabile dell'ufficio di progettazione meccanica
Nome e indirizzo del datore di lavoro	INFN (Istituto Nazionale di Fisica Nucleare)
Tipo di attività o settore	Ingegneria Meccanica e Civile
Date	Settembre 2013 – Dicembre 2014
Lavoro o posizione ricoperti	Contratto di collaborazione
Nome e indirizzo del datore di lavoro	CERN (Centro Europeo per la Ricerca Nucleare), Ginevra
Tipo di attività o settore	Ingegneria Meccanica
Date	Gennaio 2010 – Aprile 2013
Lavoro o posizione ricoperti	Titolare di borsa di studio Regione Liguria P.O. C.R.O. FSE 2007-2013, Asse IV "Capitale umano Ob.specifico i/4, i/5"
Principali attività e responsabilità	Borsa di studio riferita al settore scientifico disciplinare di FISICA TECNICA INDUSTRIALE con titolo sistemi di micro cogenerazione da fonti rinnovabili mediante produzione integrata di energia elettrica e termica con impiego di tecniche innovative di refrigerazione di pannelli solari fotovoltaici
Nome e indirizzo del datore di lavoro	Collaborazione su Bando FILSE Azione 1.2.2 "Ricerca industriale e sviluppo sperimentale" DIME-TEC, sezione di TermoEnergetica e Condizionamento Ambientale del dipartimento di Ingegneria della meccanica, energetica, gestionale e dei trasporti dell'Università degli Studi di Genova
Tipo di attività o settore	Ingegneria Meccanica - Settore Fisica Tecnica Industriale

ISTRUZIONE E FORMAZIONE

Date	Gennaio 2010 – Aprile 2013
Titolo della qualifica rilasciata	Dottorato di Ricerca in Ingegneria Meccanica – Settore Fisica Tecnica Scuola di dottorato: Scienze e Tecnologie innovative per l'Ingegneria Industriale
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Università degli Studi di Genova – Facoltà di Ingegneria
Titolo e descrizione della Tesi	Tesi di dottorato: Sistemi di micro cogenerazione da fonti rinnovabili (solare) mediante produzione integrata di energia elettrica e termica con impiego di tecniche innovative di refrigerazione di pannelli solari fotovoltaici. Dottorato svolto presso il DIME-TEC, operando nel gruppo di lavoro del Prof. Luca A. Tagliafico
Date	2005 - 2008
Titolo della qualifica rilasciata	Laurea Specialistica in Ingegneria delle Acque e Difesa del Suolo

Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	EPFL - Lausanne Università di Genova – Facoltà di Ingegneria
Titolo e descrizione della Tesi	Tesi di Laurea: Sui controlli idrologici delle epidemie di colera Tesi svolta presso l'EPFL di Lausanna e il DICAT dell'Università degli Studi di Genova Relatori: Prof. Ing. A.Rinaldo (<i>EPFL, Lausanne</i>) Prof. Ing. P. Bartolini (<i>DICAT, Genova</i>)
Livello nella classificazione nazionale o internazionale	110 / 110 e lode Dignità di Stampa
Date	2002 - 2005
Titolo della qualifica rilasciata	Laurea triennale in Ingegneria Civile
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Università di Genova – Facoltà di Ingegneria
Livello nella classificazione nazionale o internazionale	107/110
Date	1997 – 2002
Titolo della qualifica rilasciata	Diploma di liceo scientifico
Nome e tipo d'organizzazione erogatrice dell'istruzione e formazione	Liceo scientifico G. D. Cassini
Livello nella classificazione nazionale o internazionale	99/100

ULTERIORI ESPERIENZE

ESPERIENZE DIDATTICHE

Date **Gennaio 2010 – Oggi**

Nome e tipo d'organizzazione Università degli Studi di Genova e INFN

ATTIVITA DIDATTICHE Seminari didattici per il corso di Termofluidodinamica per l'ingegneria Biomedica, per il corso di Impianti Tecnici Ospedalieri per l'ingegneria Biomedica e per il corso di fisica Tecnica Ambientali e Impianti Tecnici per l'ingegneria Edile

Partecipazione come esperto della materia alle Commissioni d'esame del corso di Fisica Tecnica Ambientale e Impianti Tecnici per l'ingegneria Edile

Correlatrice per le tesi di laurea in Ingegneria Meccanica inerenti al settore dell'energia

PUBBLICAZIONI SU RIVISTA INTERNAZIONALE

1. R. Bates, M. Battistin, S.Berry, J Berthoud et al.
A COMBINED ULTRASONIC FLOW METER AND BINARY VAPOUR MIXTURE ANALYZER FOR THE ATLAS SILICON TRACKER
arXiv:1210.4835, *Journal of Instrumentation JINST 8 P02006*; doi:10.1088/1748-0221/8/02/P02006
2. R. Bates, M. Battistin, S.Berry, J Berthoud et al.
DEVELOPMENT OF A CUSTOM ON-LINE ULTRASONIC VAPOUR ANALYZER/ FLOWMETER FOR THE ATLAS INNER DETECTOR, WITH APPLICATIONS TO GASEOUS TRACKING AND CHERENKOV
arXiv:1210.8045, *Journal of Instrumentation, JINST 8(01), C01002*; doi:10.1088/1748-0221/8/01/C01002
3. C. Rossi, L. A. Tagliafico, F. Scarpa, V. Bianco (C. Rossi corresponding author)
EXPERIMENTAL AND NUMERICAL RESULTS FROM HYBRID RETROFITTED PHOTOVOLTAIC PANELS
Energy Conversion and Management, 76 (2013) 634–644, DOI *j.enconman.2013.07.088*
4. G. Boyd et al.
IMPLEMENTATION OF ULTRASONIC SENSING FOR HIGH RESOLUTION MEASUREMENT OF BINARY GAS MIXTURE FRACTIONS
Sensors 2014, 14(6), pp. 11260-11276, doi:10.3390/s140611260
5. C. Deterre et al.
A CUSTOM ON-LINE ULTRASONIC GAS MIXTURE ANALYZER WITH SIMULTANEOUS FLOWMETRY, DEVELOPED FOR THE UPGRADED EVAPORATIVE COOLING SYSTEM OF THE ATLAS SILICON TRACKER
IEEE Transa. on Nuclear Science, August 2014, 61(4), pp. 2059-2065, doi: 10.1109/TNS.2014.2326961

6. C. Rossi, M. De Rosa, V. Bianco, F. Scarpa, L.A. Tagliafico.
COMPARISON BETWEEN DIFFERENT PHOTOVOLTAIC SOLAR-ASSISTED HEAT PUMPS (PVT-SAHP) CONFIGURATIONS WITH RETROFITTED PHOTOVOLTAIC PANELS
WSEAS Transactions on Environment and Development, ISSN / E-ISSN: 1790-5079 / 2224-3496, Volume 10, 2014, Art. #35, pp. 329-340
7. M. Alhroob et al
DEVELOPMENT OF A CUSTOM ON-LINE ULTRASONIC VAPOUR ANALYZER AND FLOW METER FOR THE ATLAS INNER DETECTOR, WITH APPLICATION TO CHERENKOV AND GASEOUS CHARGED PARTICLE DETECTORS
Journal of Instrumentation JINST10 (2015), C03045, doi:10.1088/1748-0221/10/03/C03045
8. R.Bates, M. Battistin, S.Berry, J Berthoud et al.
THE COOLING CAPABILITIES OF C₂F₆/C₃F₈ SATURATED FLUOROCARBON BLENDS FOR THE ATLAS SILICON TRACKER,
Journal of Instrumentation JINST 10 (2015), P03027 doi:10.1088/1748-0221/10/03/P03027
9. M. Battistin et al (C. Rossi corresponding author)
THE THERMOSIPHON COOLING SYSTEM OF THE ATLAS EXPERIMENT AT THE CERN LARGE HADRON COLLIDER,
International Journal of Chemical Reactor Engineering IJCRE (2015),doi:10.1515/ijcre-2015-0022
10. B. Pearson et al
IMPLEMENTATION OF AN ULTRASONIC INSTRUMENT FOR SIMULTANEOUS MIXTURE AND FLOW ANALYSIS OF BINARY GAS SYSTEMS
IEEE Transactions on Nuclear Science vol.63, Issue 3 pp. 1659-1667, (2016), doi: [10.1109/TNS.2016.2561290](https://doi.org/10.1109/TNS.2016.2561290)
11. A. O' Rourke et al
CUSTOM REALTIME ULTRASONIC INSTRUMENTATION FOR SIMULTANEOUS MIXTURE AND FLOW ANALYSIS OF BINARY GASES IN THE CERN ATLAS EXPERIMENT
Nuclear Inst. and Methods in Physics Research A Vol. 845, pp. 273-277 (2017), doi: 10.1016/j.nima.2016.04.104
12. G. Romano., C. Rossi., F. Scarpa., L. A. Tagliafico
DYNAMIC THERMAL MODEL FOR HYBRID PHOTOVOLTAIC PANELS.
Energy Procedia, 81, 345-353, (2015). doi: 10.1016/j.egypro.2015.12.104
13. M. Alhroob et al. (C. Rossi corresponding author)
CUSTOM ULTRASONIC INSTRUMENTATION FOR FLOW MEASUREMENT AND REAL-TIME BINARY GAS ANALYSIS IN THE CERN ATLAS EXPERIMENT
Journal of Instrumentation JINST 12 (2017), C0109, <http://dx.doi.org/10.1088/1748-0221/12/01/C01091>
14. M. Battistin et al.
APPLICATIONS OF ULTRASONIC SONAR INSTRUMENTATION FOR REAL-TIME ANALYSIS OF BINARY GAS MIXTURES
Advances in Sensors: Reviews, Vol. 6, Book Series, Chapter 4, p.87-110 , ISBN: 978-84-09-03030-9, e-ISBN: 978-84-09-03031-6
15. C. Rossi et al
APPLICATIONS AND PERSPECTIVES OF GAS ANALYSIS BASED ON SONAR INSTRUMENTATION
Thermal Science and Engineering Progress 9 (2019), 169-176, doi: <https://doi.org/10.1016/j.tsep.2018.10.015>
16. Abbott et al.
PRODUCTION AND INTEGRATION OF THE ATLAS INSERTABLE B-LAYER
Journal of instrumentation 13.05 (2018): T05008.
<https://arxiv.org/abs/1803.00844>
17. F. Grenier et al.
TECHNICAL DESIGN REPORT FOR THE ATLAS ITK PIXEL DETECTOR : PIXEL TDR
Tech. Rep. ATL-COM-ITK-2017-073, CERN, Geneva, 2017.
18. L. Zwalinski et al.
ATLAS BABY-DEMO.
Nuclear instruments & methods in physics research section a-accelerators spectrometers detectors and associated equipment 936 (2019): 648-649.
19. K. Altenmüller et al.
A CALORIMETER FOR THE PRECISE DETERMINATION OF THE ACTIVITY OF THE 144CE-144PR ANTI-NEUTRINO SOURCE IN THE SOX EXPERIMENT.
Journal of Instrumentation 13.09 (2018): P09008

