

Curriculum Vitæ

Informazioni personali

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Data di nascita 06/01/1969

Titoli di studio

Data di conseguimento 25/02/2002
Titolo conseguito Dottore di ricerca
Descrizione Dottore di Ricerca in Fisica
Titolo della Tesi Simulation of coherent electron transport in nanostructures: a proposal for solid state quantum gates.
Titolo dottorato Fisica
Nome e indirizzo istituzione Università degli Studi di MODENA e REGGIO EMILIA - Via Università', 4 - MODENA

Data di conseguimento 17/04/1998
Titolo conseguito Laurea (vecchio ordin.)
Descrizione Laurea in Fisica (Indirizzo: Fisica della materia) 1998 LAUREA IN FISICA, 110/110 E LODE, UNIVERSITA' DI MODENA, INDIRIZZO: FISICA TEORICA
Voto conseguito 110/110 e Lode
Titolo della Tesi Soluzione Monte Carlo dell'equazione di Wigner per il trasporto quantistico in sistemi mesoscopici.
Nome e indirizzo istituzione Università degli Studi di MODENA e REGGIO EMILIA - Via Università', 4 - MODENA

Esperienze

Periodo 14/04/2008 - oggi
Posizione Ricercatore presso Ente di ricerca
Qualifica Ricercatore
Nome e indirizzo istituzione Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura Istituto Nanoscienze

Periodo 01/01/2017 - 31/12/2017
Posizione Affiliato ad Ente di ricerca
Qualifica Ricercatore

Nome e indirizzo istituzione	Istituto Nazionale di Alta Matematica "Francesco Severi" - Piazzale Aldo Moro, 5 - Roma
Struttura	Gruppo Nazionale per la Fisica Matematica
Periodo	28/09/2007 - 28/09/2009
Posizione	Attività didattica
Qualifica	Professore a contratto
Tipo di attività svolta	Titolare corso "Architetture Parallele" (6 cfu), CdL Informatica
Nome e indirizzo istituzione	Università degli Studi di MODENA e REGGIO EMILIA - Via Università', 4 - MODENA
Periodo	01/06/2008 - 01/06/2009
Esperienza	Partecipazione a progetto di ricerca
Tipo di attività svolta	Coordinamento del progetto CNR-INFM SEED 2008
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Struttura	Centro di responsabilità scientifica INFIM
Responsabile U.O.	
Periodo	01/01/2004 - 01/01/2009
Esperienza	Partecipazione a progetto di ricerca
Tipo di attività svolta	Coordinamento di CINQUE Progetti di Ricerca INFIM, Iniziativa Calcolo Parallelo e Supercalcolo CNR-CINECA
Nome e indirizzo istituzione	Consorzio Interuniversitario CINECA - via Magnanelli 6/3 - Casalecchio di Reno (BO)
Responsabile U.O.	
Periodo	01/06/2005 - 01/04/2008
Posizione	Ricercatore a t.d. presso Ente di ric.
Qualifica	Ricercatore a tempo det.
Nome e indirizzo istituzione	Consiglio Nazionale delle Ricerche - Piazzale Aldo Moro, 7 - Roma
Periodo	26/02/2005 - 08/03/2008
Posizione	Attività didattica
Qualifica	Professore a contratto
Tipo di attività svolta	Lezioni Servizi informatici e telematici in situazioni di emergenza, Master in Gestione dell'Emergenza Nazionale ed Internazionale
Nome e indirizzo istituzione	Università degli Studi di MODENA e REGGIO EMILIA - Via Università', 4 - MODENA
Periodo	28/09/2005 - 28/09/2007
Posizione	Attività didattica
Qualifica	Professore a contratto
Tipo di attività svolta	Titolare corso "Architetture Parallele" (5 cfu), CdL Scienze dell'Informazione
Nome e indirizzo istituzione	Università degli Studi di MODENA e REGGIO EMILIA - Via Università', 4 - MODENA
Periodo	01/04/2003 - 01/06/2005
Posizione	Ricercatore a t.d. presso Ente di ric.

Qualifica	Ricercatore a tempo det.
Tipo di attività svolta	attivit� teorico-modellistica su nanostrutture a semiconduttore
Nome e indirizzo istituzione	Istituto Nazionale per la Fisica della Materia - Corso Perrone, 24 - 16152 Genova
Tipo istituzione	Ente di ricerca pubblico italiano
Periodo	02/11/2001 - 01/11/2003
Posizione	Assegnista di ricerca
Nome e indirizzo istituzione	Universit� degli Studi di BOLOGNA - Via Zamboni, 33 - BOLOGNA
Struttura	Dip. ELETTRONICA, INFORMATICA E SISTEMISTICA
Periodo	30/12/2002 - 28/02/2003
Posizione	Borsista post-doc
Tipo di attivit� svolta	Collaborazione INFN prot. OA02009676
Nome e indirizzo istituzione	Istituto Nazionale per la Fisica della Materia - Corso Perrone, 24 - 16152 Genova
Tipo istituzione	Ente di ricerca pubblico italiano
Periodo	01/04/2002 - 01/09/2002
Posizione	Altro
Tipo di attivit� svolta	Visiting Scientist
Nome e indirizzo istituzione	IBM Watson Research Center - Yorktown, New York (USA)
Tipo istituzione	Ente di ricerca straniero
Periodo	01/11/1999 - 01/11/2001
Posizione	Attivit� didattica
Qualifica	Dottorando
Tipo di attivit� svolta	Esercizi per il corso "Struttura della Materia", CdL in Fisica
Nome e indirizzo istituzione	Universit� degli Studi di MODENA e REGGIO EMILIA - Via Universita', 4 - MODENA
Struttura	Dip. FISICA
Periodo	01/11/1998 - 01/11/2001
Posizione	Dottorando
Tipo di attivit� svolta	Dottorato di Ricerca in Fisica
Nome e indirizzo istituzione	Universit� degli Studi di MODENA e REGGIO EMILIA - Via Universita', 4 - MODENA
Struttura	Dip. FISICA
Titolo dottorato	Fisica
Periodo	01/12/1998 - 31/12/1998
Posizione	Borsista
Tipo di attivit� svolta	Collaborazione INFN prot. 1895/COI
Nome e indirizzo istituzione	Istituto Nazionale per la Fisica della Materia - Corso Perrone, 24 - 16152 Genova

**Elenco dei
prodotti della
ricerca**

Battiato, S., Wu, S., Zannier, V., Bertoni, A., Goldoni, G., Li, A., Xiao, S., Han, X. D., Beltram, F., Sorba, L., Xu, X., Rossella, F. (2019). Polychromatic emission in a wide energy range from InP-InAs-InP multi-shell nanowires. NANOTECHNOLOGY, vol. 30, p. 1-9, ISSN: 1361-6528, doi: 10.1088/1361-6528/aafde4

Devashish Pandey, Laura Bellentani, Matteo Villani, Guillermo Albareda, Paolo Bordone, Andrea Bertoni, Xavier Oriols (2019). A Proposal for Evading the Measurement Uncertainty in Classical and Quantum Computing: Application to a Resonant Tunneling Diode and a Mach-Zehnder Interferometer. APPLIED SCIENCES, vol. 9, p. 2300-1-2300-21, ISSN: 2076-3417, doi: 10.3390/app9112300

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Federico Grasselli, Andrea Bertoni, Guido Goldoni (2018). Classical and quantum dynamics of indirect excitons driven by surface acoustic waves. PHYSICAL REVIEW. B, vol. 98, p. 165407, ISSN: 2469-9950, doi: 10.1103/PhysRevB.98.165407

Laura Bellentani, Andrea Beggi, Paolo Bordone, Andrea Bertoni (2018). Dynamics and Hall-edge-state mixing of localized electrons in a two-channel Mach-Zehnder

interferometer. PHYSICAL REVIEW. B, vol. 97, p.
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GRASSELLI, FEDERICO, BERTONI, Andrea, GOLDONI,
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coherent evolution of indirect excitons. SUPERLATTICES
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0749-6036, doi: 10.1016/j.spmi.2016.12.018

PUVIANI, MATTEO, Manghi, F., Bertoni, A. (2017).
Dynamics and control of edge states in laser-driven
graphene nanoribbons. PHYSICAL REVIEW. B, vol. 95,
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BUSCEMI, Fabrizio, Royo, Miquel, GOLDONI, Guido,
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density in modulation-doped core-multi-shell nanowires.
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Alain, BERTONI, Andrea, GOLDONI, Guido (2016).
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electron-hole pair in semiconductor coupled quantum
wells: A time-dependent approach. PHYSICAL REVIEW. B,
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Beggi A, Bordone P, Buscemi F, Bertoni A (2015). Time-dependent simulation and analytical modelling of

electronic Mach-Zehnder interferometry with edge-states wave packets. JOURNAL OF PHYSICS. CONDENSED MATTER, 475301, ISSN: 0953-8984

Buscemi F, Royo M, Bertoni A, Goldoni G (2015). Magnetophotoluminescence in GaAs/AlAs core-multishell nanowires: A theoretical investigation. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 92, 165302, ISSN: 1098-0121, doi: 10.1103/PhysRevB.92.165302

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Royo M, Segarra C, Bertoni A, Goldoni G, Planelles J . (2015). Aharonov-Bohm oscillations and electron gas transitions in hexagonal core-shell nanowires with an axial magnetic field. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 91, 115440, ISSN: 1098-0121, doi: 10.1103/PhysRevB.91.115440

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ROYO VALLS, MIGUEL, BERTONI, Andrea, GOLDONI, Guido (2013). Landau levels, edge states, and magnetoconductance in GaAs/AlGaAs core-shell nanowires. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 87, p. 115316-1-115316-9, ISSN: 1098-0121, doi: 10.1103/PhysRevB.87.115316

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Buscemi F, Bordone P, Bertoni A (2011). Entanglement creation in semiconductor quantum dot charge qubit. INTERNATIONAL JOURNAL OF QUANTUM INFORMATION, vol. 9, p. 111-118, ISSN: 0219-7499, doi: 10.1142/S0219749911007125

Buscemi F, Bordone P, Bertoni A (2011). On demand entanglement in double quantum dots via coherent carrier scattering. NEW JOURNAL OF PHYSICS, vol. 13, 013023, ISSN: 1367-2630, doi: 10.1088/1367-2630/13/1/013023

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in twisted nanowires. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 83, p. 245439-1-245439-9, ISSN: 1098-0121, doi: 10.1103/PhysRevB.83.245439

Buscemi F, Bordone P, Bertoni A (2010). Quantum teleportation of electrons in quantum wires with surface acoustic waves. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 81, 045312, ISSN: 1098-0121, doi: 10.1103/PhysRevB.81.045312

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Bertoni, Andrea, Cuoghi, Giampaolo, Ferrari, Giulio, Goldoni, Guido (2009). Conductance crossovers in coherent surface transport on y nanojunctions. In: 16th International Conference on Electron Dynamics in Semiconductors, Optoelectronics. JOURNAL OF PHYSICS. CONFERENCE SERIES, vol. 193, DIRAC HOUSE, TEMPLE BACK, BRISTOL BS1 6BE, ENGLAND:IOP PUBLISHING LTD, ISSN: 1742-6588, Montpellier, FRANCE, AUG 24-28, 2009, doi: 10.1088/1742-6596/193/1/012019

Buscemi F, Bordone P, Bertoni A (2009). Dynamics of electron-electron entanglement in pulsed sinusoidal potentials. JOURNAL OF PHYSICS. CONFERENCE SERIES, vol. 193, 012044, ISSN: 1742-6588, doi: 10.1088/1742-6596/193/1/012044

Buscemi F, Bordone P, Bertoni A (2009). Validity of the single-particle approach for electron transport in quantum wires assisted by surface acoustic waves. JOURNAL OF PHYSICS. CONDENSED MATTER, vol. 21, 305303, ISSN: 0953-8984, doi: doi:10.1088/0953-8984/21/30/305303

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transport in Y nanojunctions: Signatures of the geometric potential. PHYSICAL REVIEW. B, CONDENSED MATTER AND MATERIALS PHYSICS, vol. 79, 073410, ISSN: 1098-0121, doi: 10.1103/PhysRevB.79.073410

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charged quantum dots. JOURNAL OF COMPUTATIONAL
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F. BUSCEMI, P. BORDONE, BERTONI A (2008).
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between distinguishable- and indistinguishable-particle
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G. Ferrari, BERTONI, Andrea, GOLDONI, Guido,
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E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES,
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