

# Curriculum Vitae et Studiorum

Dr. Angela BONACCORSO, INFN, Sez. di Pisa.

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- **10-8-52** Nata ad Enna.
- **1971** Maturità Scientifica con voti 60/60.
- **1971-76** Istituto di Fisica, Università di Catania. Laurea in Fisica con voti 110/110 e lode. Tesi: Metodi di minimo nel sistema a molti corpi nucleare. Relatore: Prof. M. Di Toro.
- **1976-78** Scuola di Specializzazione in Fisica, Università di Catania.
- **1977-78** Assistente Supplente alla cattedra di Fisica Teorica dell'Università di Catania.
- **1978-81** Department of Theoretical Physics and Somerville College, Oxford University, U.K. **Ph.D.** in Theoretical Physics, Nuclear Structure, finanziata da CSFNSM e INFN (Ottobre 1978-Settembre 1979) e da una borsa di studio si scambio tra il Ministero degli Affari Esteri e il British Council (Ottobre 1979-Ottobre 1980). Tesi: A microscopic theory of the alpha-nucleus optical potential. Relatore: Prof. D.M.Brink.
- **1981-82** Research Associate al "N.Bohr Institute" Copenhagen, finanziata dal Danish Science Research Council.
- **1-1-1983** Ricercatore INFN, Sezione di Catania.
- **1-2-1990** Trasferita alla Sezione INFN di Pisa.
- **1-1-2006** Promossa al grado di I° Ricercatore.
- **8-1-2014** Superata l'Abilitazione Scientifica Nazionale, 02/A2-Fisica Teorica delle Interazioni Fondamentali, Prima Fascia.

## Incarichi ricoperti

- “**Link Member**” italiano presso l’ European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT\*), Trento, fino al 2004.
- Membro della commissione INFN per l’equiparazione dell’attività di ricerca al dottorato.
- Membro della commissione INFN 2004 per l’assegnazione delle borse di studio a teorici stranieri.
- Membro della commissione INFN 2007 per l’assegnazione delle borse di studio ai dottorandi.
- Membro della commissione INFN 2009 per l’idoneità all’assegnazione di contratti Art. 23 per teorici.
- Membro della commissione INFN 2010 per il conferimento del premio nazionale Sergio Fubini.
- Responsabile nazionale dell’**Iniziativa Specifica di Gr.IV, PI32** ”Struttura e Reazioni di Nuclei Esotici”.
- Membro del GSI-Nustar Council.
- Coordinatrice dell’ EURISOL User’s Group e Chair dell’ Executive Committee: <http://www.eurisol.org/usergroup/>.
- Leader del Physics & Instrumentation task dello stadio successivo al progetto EURISOL DS, denominato EURISOL NET (EUROpean ISOL network), facente parte di ENSAR (European Nuclear Science and Applications Research), il progetto europeo per la fisica nucleare approvato nell’ambito del programma FP7. Membro dello Steering Committee e Deputy Work Package leader.
- Membro del gruppo di studio SPES.
- Membro del NUSPRASEN network nell’ambito di ENSAR2 (European Nuclear Science and Applications Research), il progetto europeo per la fisica nucleare approvato nell’ambito del programma HORIZON2020, col compito di curare le attività di ”networking” per EURISOL JRA.

- Referee per due organismi europei di ricerca (STFC, UK; FNRS, Belgium) e per le riviste : Phys. Rev. C, Phys. Rev. Lett., Nucl. Phys. A, Eur. Phys. Jour. A. e Eur. Phys. Jour. Plus.

## Riconoscimenti internazionali e premi

2005 GSI Exotic Nuclei Community Membership Award.

2015 APS Journal Outstanding Referee.

## Conferenze e workshops organizzati e partecipazione a programme committees

- **1990** “ Nuclear Dynamics”, Marciana Marina, Isola d’Elba, Scientific secretary.
- **1993** ‘V Convegno su Problemi di Fisica Nucleare Teorica’, Cortona. Co-organizzatrice.
- **1995** ‘VI Convegno su Problemi di Fisica Nucleare Teorica’, Cortona. Co-organizzatrice.
- **1997** II Giornata EXCYT, LNS Catania. Co-organizzatrice.
- **2001** “Reaction Mechanisms with Exotic Nuclei” , 19-Feb/2 Mar 2001. ECT\*, Trento. Organizzatrice (Chair), Coordinatore.
- **2003**
  - 1) III Giornata EXCYT-MAGNEX, Marzo 2003, LNS Catania. Co-organizzatrice.
  - 2) “10th International Conference on Nuclear Reaction Mechanisms”. Varenna, Italy, 9-13 Giugno 2003. Co-organizzatrice.

- **2004**
  - 1) International Nuclear Physics Conference, INPC 2004, Göteborg, Sweden, 27 Giugno - 2 Luglio, 2004. Membro del programme committee.
  - 2) "Spectroscopic Factors". ECT\*, Trento. 2-12 Marzo 2004. Organizzatrice (Chair), Coordinatore.
  - 3) ISOLDE workshop, CERN, 12-15 Dicembre 2005. Membro del programme committee.
- **2005** International workshop on Structure and Reactions with Exotic Nuclei. Pisa 24-26 Feb 2005. Organizzatrice (Chair).
- **2006**
  - 1) International workshop on "The Physics Opportunities with Eurisol". ECT\*, Trento. 16-21 Gennaio 2006. Co-organizzatrice.
  - 2) "11th International Conference on Nuclear Reaction Mechanisms". Varenna, Italy. Giugno 2006. Co-organizzatrice
- **2007**
  - 1) The 20th European Conference on Few-Body Problems in Physics. Pisa. 10-14 Settembre 2007. Membro del Local Organizing Committee.
  - 2) Theoretical nuclear physics school a Les Houches (France): "Exotic Nuclei: New Challenges", 7-18 Maggio 2007. Membro dell' International Scientific Committee.
- **2008**
  - 1) First Eurisol User Group Workshop (**Corso di Formazione INFN**), GGI, Firenze, 14 -18 Gennaio 2008. Organizzatrice (Chair) .
  - 2) SOTANCP2008. The first Workshop "State of the Art in Nuclear Cluster Physics". Strasbourg (France), May 13-16, 2008. Membro dello Scientific Advisory Board.
  - 3) EURORIB'08. Conference on "Next Generation of Radioactive Ion Beam Facilities in Europe". Giens (France), 8-13 June 2008. Membro dello Scientific Advisory Board
  - 4) Unbound Nuclei Workshop (**Corso di Formazione INFN**), Pisa 3-5 Novembre. Organizzatrice (Chair).

- **2009**

- 1) EURISOL DS Town Meeting, Pisa, March 30 - April 1, Organizzatrice (Chair).
- 2) Radioactive Nuclear Beams Conference (RNB8), Grand Rapids, Michigan, May 26-30. Membro dell' International Advisory Committee.
- 3) "12th International Conference on Nuclear Reaction Mechanisms". Varenna, Italy, (June 15-19). Membro dell' International Advisory Committee.
- 4) First EURISOL User Group Topical Meeting, "The formation and structure of r-process nuclei, between N=50 and 82 (including  $^{78}\text{Ni}$  and  $^{132}\text{Sn}$  areas)". Catania 9-11 Dec. 2009 Organizzatrice (Chair).

- **2010**

- 1) EURORIB'10. June 6-1, 2010, Lamoura, France. Membro dell' International Advisory Committee.
- 2) Pan-American Advanced Studies Institute on Rare Isotopes August 1-13, 2010, Joao Pessoa, Brasile. Membro dell' International Advisory Committee.
- 3) First Italy-Japan workshop on Nuclear Theory for Exotic Nuclei. (**Corso di Formazione INFN**). September 6-8 2010, Torino. Co-organizzatrice.
- 4) The limits of existence of light nuclei, 25 - 29 October 2010, ECT\* Trento. Co-organizzatrice.
- 5) MAGNET 2010, Nuclear Physics with Modern Magnetic Spectrometers 14-16 December 2010, INFN-LNS. Co-organizzatrice.

- **2011**

- 1) 2nd EURISOL UG Topical Meeting, "Neutron deficient exotic nuclei and the Physics of the "proton rich side" of the nuclear chart". Valencia, Spain, February 21-23 2011, Co-organizzatrice.
- 2) Nuclear Physics in Astrophysics 5 (NPA5) Conference, April 3-8 2011, Eilat Israel. Membro dell' International Advisory Committee

- **2012**

- 1) International Conference DREB12- Direct Reaction with Exotic Beams, Spring 2012, Pisa, Italy. Organizzatrice (Co-chair)

- 2) 3rd EURISOL UG Topical Meeting, "Physics of Light Exotic Nuclei". Lisbon, Portugal, October 15-17 2013, Co-chair.
- 3) EURORIB'12. 20-25 May 2012, Abano Terme, Italy.  
Membro dell' International Advisory Committee.
- 4) "13th International Conference on Nuclear Reaction Mechanisms". Varenna, Italy, 11-15 Giugno 2012. Membro dell' International Advisory Committee.
- 5) Nuclear Structure and Dynamics II, Opatija, Croazia 8-7-2012.  
Membro dell' International Advisory Committee.

- **2013**

- 1) 4th EURISOL UG Topical Meeting, "Going to the limits of mass, temperature, spin and isospin". Krakow, Poland, July 1-3 2013, Co-chair.
- 2) Graduate School, Frontiers in Nuclear Physics, GGI, Florence Apr 15, 2013 - Apr 19, 2013 Co-organizzatrice, docente .

- **2014**

- 1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI, Florence, 24 Feb-3 March 2014. Co-organizzatrice.
- 2) International Conference DREB14- Direct Reaction with Exotic Beams, June 2014, Darmstadt, Germany. Membro dell' International Advisory Committee
- 3) 5th EURISOL UG Topical Meeting, "Innovative Instrumentation for EURISOL". York, UK, July 15-17 2014, Co-chair.

- **2015**

- 1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI, Florence, 16-27 Febbraio 2015. Co-organizzatrice.
- 2) "14th International Conference on Nuclear Reaction Mechanisms". Varenna, Italy, (June 2015). Membro dell' International Advisory Committee.
- 3) Nuclear Structure and Dynamics III, Portorose, Slovenia (June 2015)  
Membro dell' International Advisory Committee.
- 4) Fourth International Conference on Nucleus-Nucleus Collision, Catania (July 2015).  
Membro dell' International Advisory Committee.

5) Chiral Dynamics 2015, 29 June 2015 to 03 July 2015, Pisa.  
Membro del Local Organizing Committee.

6) EURORIB'15, 7-12 June 2015 Hotelpark Hohenroda, Germany,  
Membro dell' International Advisory Committee.

7) Summer School, Re-writing Nuclear Physics textbooks: 30 years of  
radioactive ion beam physics, Pisa, 20-24 July 2015. Co-chair

• **2016**

1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI,  
Florence, 22 Feb-4 March 2016. Co-organizzatrice.

2) TNPI2016 - XV Conference on Theoretical Nuclear Physics in Italy.  
Pisa 20-22 April 2016 Co-organizzatrice.

3) International Conference DREB16- Direct Reaction with Exotic  
Beams, July 2014, Halifax, Canada. Membro dell' International Advisory Committee

4) EURISOL DF 2016, Leuven, October 18-21, 2016  
Membro dell' International Advisory Committee.

5) "Physics beyond the limits of stability: exploring the continuum"  
workshop, 17-21 Oct. 2016. ECT\*, Trento, Italy. Co-chair

• **2017**

1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI,  
Florence, Feb 20, 2017 - Mar 04, 2017. Co-organizzatrice. 2) Summer  
School, Re-writing Nuclear Physics textbooks: Basic nuclear interac-  
tions and their link to nuclear processes in the cosmos and on earth  
Pisa, 24-28 July 2017. Co-chair

3) 'XVI Convegno su Problemi di Fisica Nucleare Teorica'. Cortona,  
Italy, Ottobre 2017, co-organizer.

4) Physics Cases and Instrumentation for the EURISOL-DF, next step  
towards Eurisol, Lisbona 15-16 Nov. 2017. co-organizer.

• **2018**

1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI,  
Florence, Feb 26, 2018 - Mar 09, 2018. Co-organizzatrice.

2) International Conference DREB18- Direct Reaction with Exotic  
Beams, 4-8 June 2018, Matsue, Japan. Membro dell' International Advisory Committee.

- **2019**

- 1) Graduate School, Frontiers in Nuclear and Hadronic Physics, GGI, Florence, Feb 25, 2019 - Mar 08, 2019. Co-organizzatrice.
- 2) Summer School, Re-writing Nuclear Physics textbooks: One more step forward. Pisa, 22-26 July 2019. Co-chair
- 3) 'XVII Convegno su Problemi di Fisica Nucleare Teorica'. Cortona, Italy, Ottobre 2019, co-organizer.

## Edizione proceedings

1. A.Bonaccorso, A. Fabrocini, A. Kievsky, S.Rosati and M. Viviani. "Perspectives on Theoretical Nuclear Physics", Proceedings of the V Convegno su Problemi di Fisica Nucleare Teorica." Edizioni ETS, 1993.
2. I. Bombaci, A.Bonaccorso, A. Fabrocini, A. Kievsky, S.Rosati and M. Viviani. "Perspectives on Theoretical Nuclear Physics", Proceedings of the VI Convegno su Problemi di Fisica Nucleare Teorica." Edizioni ETS, 1995.
3. Reports dei Topical Meetings EURISOL I-V  
<http://www.eurisol.org/usergroup/> and final report:
  - I) "The formation and structure of r-process nuclei, between N=50 and 82 (including  $^{78}\text{Ni}$  and  $^{132}\text{Sn}$  areas)". Catania 9-11 Dicembre 2009.
  - II) "Neutron deficient exotic nuclei and the Physics of the "proton rich side" of the nuclear chart". Valencia, Spain, February 21-23 2011.
  - III) "Physics of Light Exotic Nuclei". Lisbon, Portugal, October 15-17 2013
  - IV) Going to the limits of mass, temperature, spin and isospin with heavy Radioactive Ion Beams, Krakow, Poland, July 1-3, 2013.
  - V) "Innovative Instrumentation for EURISOL". York, UK, July 15-17 2014.
  - VI) Final Report EURISOL-NET, Deliverable of the project of the European Union Seventh Framework Programme FP7/2007- 2013 under Grant Agreement n. 262010-ENSAR.



4. Focus Point on Rewriting Nuclear Physics textbooks: 30 years with radioactive ion beam physics, Eur. Phys. Journ. Plus 2016, N. Alamanos, C. Bertulani, A. Bracco, A. Bonaccorso, D. Brink and G. Casini, Associated Editors.
5. Focus Point on Rewriting Nuclear Physics textbooks: : Basic Nuclear Interactions and Their Link to Nuclear Processes in the Cosmos and on Earth, Eur. Phys. J. Plus (2019). N. Alamanos, C. Bertulani, A. Bonaccorso, A. Bracco, D. Brink, G. Casini and M. Taiuti, Associated Editors.

## Collaborazioni Nazionali ed Internazionali

1. INFN Laboratorio Nazionale del Sud, Catania :  
Progetto **MAGNEX**. Project leader: Dott. Francesco Cappuzzello,
2. INFN Laboratorio Nazionale di Legnaro, Padova :  
Progetto Europeo **I3NS/EXOCHAP**.  
”Reaction mechanisms with loosely bound and radioactive ion beams”  
Project leader: Dr. G. de Angelis,.
3. Gruppo del Dr. G. De Angelis al LNL, Legnaro : esperimento alla facility RISING, GSI, Germania. Presa dati Dicembre 2004.  
”Nuclear magicity at  $Z\sim 50$   $N\sim 82$  investigated through knock-out reaction of  $^{132}\text{Sn}$ .”
4. **EURISOL**: European Isotope Separation On-Line Radioactive Nuclear Beam Facility.

Il progetto EURISOL è stato uno dei progetti Research and Technical Development (RTD) in Nuclear Physics selezionati per ricevere finanziamenti da parte EU nell’ambito dello schema 5th Framework. Il progetto ha lo scopo di completare uno studio preliminare per il progetto di una macchina europea di prossima generazione di tipo ISOL per fasci di nuclei radioattivi.

Nella fase preliminare del progetto ho partecipato ai lavori del

- Key Experiments Task Group, Draft report: **Ho scritto il Capitolo 6, Breakup Reactions**, si veda

[http://www.ganil.fr/eurisol/Final\\_Report/A-Physics-Case-20-Dec-02.pdf](http://www.ganil.fr/eurisol/Final_Report/A-Physics-Case-20-Dec-02.pdf)

Successivamente ho partecipato ai lavori del Task 10, Physics and Instrumentation, e sono stata responsabile del *subtask Single Particle and Collective Properties*. In quanto tale ho partecipato alla stesura del **Report on keys experiments selected**, si veda <http://www.eurisol.org>

Infine nel novembre 2006 si è deciso di istituire l' **EURISOL USERS GROUP** di cui sono stata **coordinatrice**. Per maggiori dettagli si rimanda a <http://www.eurisol.org/usergroup> e alla mia relazione sull'attività di ricerca qui acclusa.

5. Iniziativa Specifica PI32: Struttura e Reazioni : Sono stata **responsabile nazionale**, 2005-2013, (Sezioni coinvolte: PI, PD, LNS). con collaborazioni estere: University of Oxford, UK; IPN-Orsay and GANIL, France; NSCL, MSU, USA; Texax AM , USA.
6. Gruppo del Prof. Livius Trache, Texax AM and GANIL. "Reactions with Exotic Nuclei for Astrophysics". Esperimento E491 a GANIL, presa dati Ottobre 2006. Vedi [46,53,54] della lista pubblicazioni.
7. Gruppo del Prof. Michael Thoennessen, Collaborazione MONA, MSU. "Sequential Particle Decay Spectroscopy". Vedi [42,43] della lista pubblicazioni.
8. Gruppo del Prof. Robert J. Charity, Collaborazione HiRA. "High resolution array". Vedi [48,52,53] della lista pubblicazioni.
9. Gruppo del Prof. Livius Trache con F. Carstoiu, RJ Charity C. Bertulani, T. Motobayashi, L. Sobotka (Bucharest, St Louis, RIKEN, Texas-Commerce, Pisa). Esperimento a RIKEN: NP1412-SAMURAI29R1, "Inclusive and exclusive breakup of  $^9\text{C}$  in nuclear and Coulomb fields".

## Attività didattica.

- **1977-78** Assistente Supplente alla cattedra di Fisica Teorica dell'Università di Catania. Esercitazioni di Metodi Matematici per la Fisica.
- **1981** Scuola di Specializzazione in Fisica, Università di Firenze, Tenuto un corso su "Fisica con Ioni Pesanti".
- **1983-87** Università di Catania. Dipartimento di Fisica. **Relatrice** di tre tesi quadriennali, vecchio ordinamento: G. Piccolo, "La parte immaginaria del potenziale ione-ione dovuta al trasferimento di un nucleone"; L. Fassina, "Produzione di pioni sottosoglia"; C. Santagati, "Trasferimento di un nucleone agli stati del continuo in reazioni tra ioni pesanti".
- Insegnata la parte del corso "Teoria delle Reazioni Nucleari" riguardante "Approssimazioni Semiclassiche".
- **1987-99** Università di Pisa. Dipartimento di Fisica. Insegnata la parte del corso "Fisica Nucleare" riguardante "Approssimazioni Semiclassiche" e "Fisica con ioni radioattivi".
- **1992** **Correlatrice** e membro della commissione per l'esame di Ph.D. di Miss. I.Lhenry, "Réactions de transfert d'un nucléon par ion lourds: états individuel et modes collectifs." presso IPN-University of Paris-Sud, Orsay, France
- **1996** Università di Pisa. Dipartimento di Fisica. Insegnata parte del corso di Esercitazioni per il corso di Fisica II, Elettromagnetismo.
- **1997** Università di Catania. Dipartimento di Fisica. Corso di Dottorato di Ricerca: Corso su "Fisica con ioni radioattivi".
- **1998** Università di Catania. Dipartimento di Fisica. Corso di Dottorato di Ricerca: Corso su "Fisica con ioni radioattivi".
- **1998** Università di Pisa, **Correlatrice** della tesi di N. Belcari: "Stati collettivi e pairing isoscalare nei nuclei con  $N \simeq Z$  studiati con lo spettrometro  $\gamma$  EUROBALL".

Collaborazione INFN/Pisa-IPN-University of Paris-Sud at Orsay,

**Progetto Socrates-Erasmus**, diretti i progetti di "stage" dei seguenti studenti, ciascuno per il periodo di tre mesi:

- **1997** Majed Keriaki, Titolo della Tesina: "Le break-up nucléaire des noyaux de  $^{11}\text{Be}$  à haute energie".  
Jérôme Margueron, Titolo della Tesina: "Étude du breakup Coulombien des noyaux à halo".
  - **1998** Pierre Hily-Blunt, Titolo della Tesina: "Etude des états résonants non liés de basse énergies"
  - **2001** Eric Semel, Titolo della Tesina: "Application de l'approximation eikonale aux reactions de cassure de noyaux à halo".
  - **2002** Guillaume Blanchon, Titolo della Tesina: "Etude des états résonants du  $^{10}\text{Li}$  par reactions de transfer au continuum".
  - **2003** Clohè Papineau, Titolo della Tesina: "Études des effets du potentiel coulombien pour les noyaux à halo de proton"
  - **2004** David Pascal, Titolo della Tesina: "Études de l'impulsion du coeur après breakup d'un noyau à halo".
- 
- **2002 Correlatrice** d'esame di Ph.D. : N.C. Summers, "Beyond the adiabatic model for the elastic scattering of composite nuclei", presso University of Surrey, UK.
  - **2003-2004 Relatrice** della tesi di Ph.D. del borsista del Ministero degli Esteri A.A. Ibraheem, Univerità del Cairo, Egitto.
  - **2006** Membro della commissione per l'esame di abilitazione alla libera docenza del Dr. N. Orr, Università di Caen, Francia.
  - **2002-2007** Incaricata del corso "Reazioni nucleari con fasci esotici", Laurea Specialistica in Scienze Fisiche. Università di Pisa.
  - **2005-2008 Relatrice** della tesi di Ph.D. del borsista della Scuola Galilei, Università di Pisa, G. Blanchon, "Reaction and Structure of Nuclei Far from Stability".

- **2008 Relatrice** dell'elaborato finale per la Laurea Triennale della Sig.na C. Rea (Università di Bologna). "Studio di Nuclei Esotici Non Legati".
- **2008 Esaminatrice e correlatrice** dell'esame di Dottorato del Sig. H.H. Knudsen, "Low-energy Nuclear Reactions", Università di Aarhus, Danimarca.
- **2008 Correlatrice** della tesi di Master del Sig. Nguan Hock Seng "Space-Time Trajectory Approach in Coulomb Excitation of Giant Dipole Resonance States", Univerità della Malesia, Kuala Lumpur.
- **2008-2009 Incaricata del corso** "Complementi di Fisica Nucleare", Laurea Specialistica in Scienze Fisiche. Università di Pisa.
- **2009 Correlatrice** della tesi di Master del Sig. Hasan Mohammed Hasan Al-Maridi, "Scattering of halo nuclei", Cairo University, Egitto.
- **2009** Università di Catania. Dipartimento di Fisica. Corso di Dottorato di Ricerca: Corso su "Teoria delle reazioni dirette con nuclei esotici".
- **2008-2009 Incaricata del corso** "Complementi di Fisica Nucleare", Laurea Specialistica in Scienze Fisiche. Università di Pisa.
- **2009-2010 Incaricata del corso** "Fondamenti di Teoria delle Reazioni Nucleari", Laurea Magistrale in Scienze Fisiche. Università di Pisa.
- **2010 Relatrice** dell'elaborato finale per la Laurea Triennale del Sig. G. Salvioni (Università di Pisa). "Frammentazione di Nuclei Esotici".
- **2011 Relatrice** della Tesi di Laura Specialistica della Sig.na C. Rea (Università di Pisa). "Two neutron transfer to the continuum".  
Membro della commissione per l'esame di abilitazione alla libera docenza del Dr. A. Obertelli, Università di Paris-Sud, Orsay, Francia.  
Membro della Commissione d'Esami Dottorato in Fisica. Università di Catania.
- **2012 Esaminatrice e correlatrice** della tesi di dottorato della Sig.ra Edna Carolina Pinilla Beltrán, "Breakup of three-body exotic nuclei", Faculté des Sciences Université Libre de Bruxelles. Belgio.

- **2013** Corso di Dottorato in Fisica, Università di Firenze, Tenuto un corso su "Teoria delle Reazioni Nucleari".
- **2014 Relatrice** della Tesi di Laura Specialistica del Sig. G. Salvioni (Università di Pisa). "A systematic study of knockout reactions from exotic nuclei with anomalous ratio  $N/Z$ "  
**Correlatrice** della tesi di PhD del Sig. Hasan Mohammed Hasan Al-Maridi, "Calculations of the cross sections for the stable and exotic light nuclei", Cairo University, Egitto.
- **2010-2017** Incaricata del corso "Teoria delle Reazioni Nucleari", Laurea Magistrale in Scienze Fisiche. Università di Pisa.
- **2019** Responsabile (tutor) della Sig.na Imane Moumene per un progetto di stage di cinque mesi in base allo schema ERASMUS+ KA107 International Mobility tra l'Università di Pisa e l'Università di Cadi Ayyad, Marrakesh, Morocco.
- **2019 Relatrice** della Tesi di Laura Specialistica del Sig. Davide Palamara (Università di Pisa), in corso.

## Permanenze lunghe presso Istituzioni Estere

- 1978 Dipartimento di Fisica Theoretical Physics, Oxford.(Luglio-Settembre)
- 1981 "N.Borh Institute" Copenhagen. (Aprile-Luglio)
- 1981 Nuclear Physics Department, Kracow. (Maggio)
- 1982 "N.Borh Institute" Copenhagen. (Gennaio-Marzo)
- 1983 Dipartimento di Fisica Theoretical Physics, Oxford and SERC, Daresbury. (Gennaio-Marzo)
- 1983 CERN, Geneva. (Luglio-Agosto)

- 1984 Dipartimento di Fisica Theoretical Physics ,Oxford. (Ottobre-Dicembre)
- 1985 Departments of Physics of Kyoto e Tsukuba, Japan, supported by an exchange scholarship between CNR(Italy) and JSPS(Japan). (Agosto-Settembre)
- 1986 Dipartimento di Fisica Theoretical Physics, Oxford. (Maggio-Giugno)
- 1987 Dipartimento di Fisica Theoretical Physics, Oxford. (Dicembre).
- 1988 Dipartimento di Fisica Theoretical Physics, Oxford. (Marzo).
- 1989 GANIL, Caen, France. (Ottobre)
- 1990 Dipartimento di Fisica Theoretical Physics, Oxford. (Giugno-Luglio)
- 1990 NSCL , Michigan State University, USA , (Settembre).
- 1991 IPN, Orsay, France and Dipartimento di Fisica Theoretical Physics, Oxford, (Luglio).
- 1992 IPN, Orsay, France. (Aprile). **Membro di commissione per l'esame di Ph.D. di Miss. I.Lhenry.**
- 1992 Dipartimento di Fisica Theoretical Physics, Oxford, (Luglio).
- 1993 GANIL,Caen, France, (Marzo).
- 1994-95 **Anno sabbatico** presso l' Institut de Physique Nucléaire, University of Paris-Sud, Orsay, France.
- 1996 IPN Orsay, France, (Dicembre).
- 1997 Ganil and IPN Orsay, France, (Febbraio).
- 1997 Dep. of Physics, Kyoto University and RIKEN, Japan, (Agosto).
- 1998 University of Warsaw, Heavy Ion Lab., Poland, (Luglio).

- 1998 IPN Orsay, France, (Dicembre).
- 1999 NSCL, Michigan State University, USA, (Novembre).
- 1999-2000 **Anno sabbatico** presso l' Institute for Nuclear Theory, University of Washington, Seattle, USA.
- 2000 IPN Orsay, France, (Novembre).
- 2001 University of Surrey, Guilford, UK. (Luglio)
- 2002 University of Surrey, Guilford, UK. (Gennaio). **Membro di commissione per l'esame di Ph.D. di Mr. N. C. Summers.**  
INT, University of Washington, Seattle, USA. (Settembre)  
NSCL, Michigan State University, USA, (Sett-Ott)
- 2003 NSCL, Michigan State University, USA, (Marzo).
- 2004 Institute for Nuclear Theory, University of Washington, Seattle, USA. (Gennaio)  
GSI, Darmstadt, Germania. (Dicembre).
- 2005 Institute for Nuclear Theory, University of Washington, Seattle, USA. (Novembre)

## **Relazioni su Invito.**

- 1981 Nuclear Physics Workshop, Trieste.
- 1985 Conference on Nuclear Physics with Heavy-Ions, Legnaro .
- 1987 International Workshop on Semiclassical and Phase Space Approach to the Dynamics of the Nucleus, Aussois.



- 1991
  - 1) Lab. Naz. del Sud, Catania, Giornate CS su "High resolution physics at forward angles".
  - 2) Towards a Unified Picture of Nuclear Dynamics, Nikko, Japan.
- 1993 N-N joint meeting Japan-Italy, LNS Catania.
- 1994 N-N joint meeting UK-Italy , LNS Catania.
- 1996
  - 1) I Giornata EXCYT, LNS Catania.
  - 2) Workshop on the Physics of Halo Nuclei, ECT\*, Trento.
- 1997
  - 1) II Giornata EXCYT, LNS Catania.
  - 2) N-N joint meeting Japan-Italy, LNL, Padova.
  - 3) School of Heavy-Ion Physics, Erice.
- 1998 Centennial of the Discovery of Polonium and Radium International Conference on Nuclear Physics Close to the Barrier, Warsaw University.
- 2000
  - 1) RIA Meeting, Durham, USA.
  - 2) EURISOL Meeting, Orsay, France.
  - 3) 9th International Conference on Nuclear Reaction Mechanisms, Varenna, Italy, 2000.
- 2001
  - 1) "Reaction Mechanisms with Exotic Nuclei", 19-Feb/2-Mar 2001. ECT\*, Trento, Italy.
  - 2) "Physics of Halo Nuclei", 4 - 12 Ottobre 2001, ECT\*, Trento, Italy.
- 2002
  - 1) N-N joint meeting Japan-Italy, Tokyo, Settembre.
  - 2) Abano Terme Eurisol Town meeting, Gennaio.

- 3) SPEG workshop, Laboratorio Nazionale di Legnaro, Aprile.
  - 4) Halo weekend, Göteborg, Giugno .
  - 5) "Symposium on Nuclear Clusters: from Light Exotic to Superheavy Nuclei", 284th WE-Heraeus-Seminar, Rauschholzhausen, Germany, 5-9 Agosto 2002.
  - 6) INT, Seattle ,"Reaction Theory for Nuclei Far From Stability" Settembre 16-20, 2002.
  - 7) REX-ISOLDE Workshop, CERN, Dicembre.
- 2003
    - 1) 10th International Conference on Nuclear Reaction Mechanisms, Varenna.
    - 2) Tours Symposium on Nuclear Physics V. Tours, France.
    - 3) REX-ISOLDE Workshop, CERN, Dicembre.
  - 2004
    - 1) Surrogate Reactions Conference. Asilomar Center. CA,USA.
    - 2) ECT\*, Trento: Spectroscopic Factors Workshop.
    - 3) 5th ITALY-JAPAN (INFN-RIKEN) joint meeting, Napoli.
    - 4) 'X Convegno su Problemi di Fisica Nucleare Teorica'. Cortona.
  - 2005
    - 1) Nustar collaboration workshop, GSI Germany, 9-11 Feb 05. "Nustar theory Network"
    - 2) NuPAC workshop, CERN, Ottobre 2005.
    - 3) INT-Seattle "Nuclear Structure at the Limits", Ottobre-Novembre.
    - 4) Eurisol town meeting, Caen, Francia, Nov 2005.
  - 2006
    - 1) 11th International Conference on Nuclear Reaction Mechanisms, Varenna, Giugno 2006.
    - 2) 9th International Conference on Nucleus Nucleus Collisions. Rio de Janeiro, Agosto 2006.
    - 3) EURISOL town meeting. CERN, Novembre 2006.

- 2007
  - 1) Workshop in honour of the 80th birthday of R.A.Ricci. Legnaro,17-18/05/2007.
  - 2) Scuola di Fisica Nucleare Teorica, Otranto.
  - 3) Carpathian Summer School of Physics, Sinaia, Rumania, 19-31 August 2007.
  - 4) FINUSTAR 2, Aghios Nikolaos, Crete, on September 10-14, 2007.
  - 5) Joint Eurisol DS/Eurons Town Meeting, Helsinki 17-21 September 2007.
  
- 2008
  - 1) Carpatian Workshop of Physics: Nuclear Reactions with Exotic Nuclei for Astrophysics. Sinaia,Rumania, 23-27 JUNE 2008.
  - 2) 6th Italy-Japan Symposium on Heavy Ion Physics. Tokai, Ibaraki (Japan). November 11 - 15, 2008.
  
- 2009
  - 1) Structure and Reactions in Coupled-Reactions Channels, 9th -12th February 09. CEA-Saclay, France.
  - 2) FRIBS Meeting, LNS, Catania 23rd March 2009.  
[http://www-new.lns.infn.it/index.php?option=com\\_content&view=article&id=247&catid=31&Itemid=53](http://www-new.lns.infn.it/index.php?option=com_content&view=article&id=247&catid=31&Itemid=53)
  - 3) EURISOL Town Meeting, Pisa, Italy, 31/3-4/4 2009.
  - 4) XVIII International School on Nuclear Physics, Neutron Physics and Applications. September 21- 27, 2009, Varna, Bulgaria.
  - 5) Direct Reactions with Exotic Beams (DREB2009), Florida State University,USA, December 16-19, 2009.
  - 6) First EURISOL User Group Topical Meeting: The formation and structure of r-process nuclei, between N=50 and 82 (including  $^{78}\text{Ni}$  and  $^{132}\text{Sn}$  areas). Catania 9-11 Dicembre 2009.  
 ”Concluding Remarks”
  
- 2010
  - 1) Carpathian Summer School of Physics 2010, 20 Giugno- 3 Luglio, 2010 Sinaia, Romania.

- 2) Pan-American Advanced Studies Institute on Rare Isotopes, Agosto 1-13, 2010. Joao Pessoa, Brasil.
  - 3) XCVI CONGRESSO NAZIONALE SOCIETÀ ITALIANA DI FISICA, Bologna, 20 - 24 Settembre 2010.
  - 4) IV French-Italian meeting of the Associate European Laboratory (LEA-COLLIGA), INFN-LNL, 18-19 Novembre 2010.
- 2011
    - 1) Theories of Breakup Reactions Workshop on Recent developments in Transfer and Knockout Reactions ECT\*, Trento 9-13 Maggio 2011
    - 2) Unbound Nuclei Studied by Projectile Fragmentation NCNP2011, Nordic Conference on Nuclear Physics 2011, Stockholm, 13-17 Giugno 2011.
    - 3) XIII convegno di fisica nucleare, Cortona 2011-04-04
    - 4) EURISOL-NET, Task 2 : Physics & Instrumentation, 2nd Topical meeting, "Neutron deficient exotic nuclei and the Physics of the "proton rich side" of the nuclear chart", Valencia 2011-02-21.  
"Concluding Remarks"
  - 2012
    - 1) ITALY-JAPAN SYMPOSIUM ON NUCLEAR PHYSICS, Milano 2012-11-20  
"Direct reactions with unstable nuclei"
    - 2) Reactions of exotic nuclei and the impact of nuclear structure, Trento 2012-10-22  
"Theoretical approaches to nuclear reactions with exotic beams"
    - 3) 1st EURISOL-NET town meeting, Lisbona 2012-10-17  
"Resumè on topical meetings"
    - 4) Institute of Nuclear Theory Symposium "BertschFest", Seattle 2012-09-07  
"From damping of single particle resonances to exotic nuclei breakup: following George in the 'continuum'"
    - 5) Nuclear Structure and Dynamics II, Opatija, Croazia 2012-07-08

”Dynamical effects in proton breakup from exotic nuclei”

6) Carpathian Summer School of Physics 2012 Exotic Nuclei and Nuclear/Particle Astrophysics (IV) From nuclei to stars, Sinaia, Romania 2012-06-24

”Reaction Theories for Exotic Nuclei”

7) **Nobel Symposium NS 152 - Physics with Radioactive Beams**, 2012, Goteborg, Svezia 2012-06-10

”Reaction Mechanisms in the Scattering of Exotic Nuclei”

8) SPES ONE-DAY WORKSHOP: Transfer reactions with RIBs, Napoli 2012-04-20

”Transfer to resonant and non resonant continuum”

- 2013

1) 4th Eurisol User Group Topical Meeting, on ”Going to the limits of mass, temperature, spin and isospin with heavy Radioactive Ion Beams”, Krakow, Poland, July 1-3, 2013.

”Concluding Remarks”

2) XXXIII Mazurian Lakes Conference on Physics Frontiers in Nuclear Physics, Piaski, Polonia. 1-6 Sept. 2013.

”Direct Reaction Mechanisms for Exotic Nuclei”

3) 2nd Int. Workshop on Quasi-Free Scattering with RIBs, Terceira, Azores. 16-20 September 2013.

<http://cfnul.cii.fc.ul.pt/events/QFS-RB13/>

” Eikonal and Transfer to the Continuum Reaction Theory”

4) Seventh European Summer School on Experimental Nuclear Astrophysics 15-27 September 2013, Santa Tecla , Catania.

”Reaction Theory for Exotic Nuclei”

5) XIV Convegno su Problemi di Fisica Nucleare Teorica'. Cortona. 29-31 Ottobre 2013.

”Reazioni dirette con fasci radioattivi”

- 2014
  - 1) Halo Physics at the Neutron Drip Line, EMMI workshop Jan 27 - Feb 21, 2014, GSI Darmstadt, Germania.  
<http://fy.chalmers.se/subatom/emmi14/index.php?page=program>  
 ” The  $^{13}\text{Be}$  puzzle: theoretical issues”
  - 2) 11th International Spring Seminar on Nuclear Physics. Ischia, May 12-16, 2014.azore <http://ischia2014.na.infn.it/circular1.html>  
 ”Walking at the dripline”
  - 3) Advances in Radioactive Ion Science, ARIS2014 , June 1-6 2014, Tokyo, Japan. Rated class-A by IUPAP. <http://ribf.riken.jp/ARIS2014/>  
 ”Reaction Dynamics for Light Dripline Nuclei”. **Plenary talk.**
  - 4) Carpathian Summer School of Physics 2014, July 14 - July 26, 2010 Sinaia, Romania.  
 ”Knockout Beyond the Dripline”
  - 5) Innovative Instrumentation for EURISOL - 5th EURISOL Topical Meeting 2014 York, <http://eurisol5.iopconfs.org/home>  
 ”Concluding Remarks”
- 2015
  - 1) Weakly bound exotic nuclei workshop, Natal, Brasil, May 2015.  
 ”Knockout Beyond the Dripline ( and the imaginary part of the light nucleus optical potential).”
  - 2) Interplay of Structure and Dynamics in Heavy Ion Collisions, Trento 2015-05-14. ”The optical potential of light exotic nuclei ”.
  - 3) Workshop STRENGTH, Napoli 2015-04-16 ”Localizzazione delle reazioni periferiche per nuclei esotici leggeri mediante lo studio dei potenziali ottici e sezioni d’urto di reazione”.
- 2016
  - 1) 8th Japan-Italy Symposium on Nuclear Physics. March 2016, ”Theory for Breakup Reactions”.
  - 2) ’Towards consistent approaches for nuclear structure and reactions’ Workshop, (June 6-10, 2016). ECT\*, Trento. ”The optical potential and total reaction cross sections of light exotic nuclei ”.

3) International Nuclear Physics Conference 2016, September 2016. Adelaide, Australia. Rated class-A by IUPAP. "Direct reaction theories for exotic nuclei". **Opening plenary talk.**

4) III Incontro Nazionale di Fisica Nucleare (INFN2016) . LNF, November 2016. "Prospettive della fisica con fasci radioattivi". **Plenary talk.**

- 2017

Unraveling the complexity of nuclear systems: single-particle and collective aspects through the looking glass Workshop, (February 5-10, 2017). ECT\*, Trento. "Light exotic nuclei studied by transfer reactions". **Invited talk.**

Toward predictive theories of nuclear reactions across the isotopic chart Workshop, (March 11-27, 2017). INT, Seattle, USA. "Unbound nuclei by projectile fragmentation and transfer".

- 2018

EMMI workshop "Stripping reactions and Nuclear Structure", July 30th - August 4th, Darmstadt. **Invited talk.**

- 2019

Theoretical Nuclear Physics in Padova: a meeting in honour of Prof. Andrea Vitturi, 20-21 May 2019 Padova. " Andrea's and mine: two *almost* parallel (scientific) lives". **Invited talk.**

# PUBBLICAZIONI

Monografie

- 1) A. Bonaccorso, 1976,  
Metodi di minimo nel sistema a molti corpi nucleare.  
Tesi di Laurea, Università di Catania.
- 2) A. Bonaccorso, 1980.  
A Microscopic Theory of the Alpha-Nucleus Optical Potential.  
<http://ora.ox.ac.uk/objects/uuid:d77df433-a09d-46c2-b94b-4d032fcf39b4>  
D.Phil.Thesis, (Tesi di dottorato), Università di Oxford,U.K.

## Publicazioni e lavori a stampa firmati

1. A.Bonaccorso, M.Di Toro, G.Russo.  
The Gradient Method in Quantum Mechanics. Nuclear Structure  
Calculation.  
Il Nuovo Cimento **40B** (1977) 273.
2. A.Bonaccorso, M.Di Toro, G.Russo.  
A Direct Determination of the Density Matrix in a Nuclear System.  
Phys. Lett. **B72** (1977) 27.
3. A.Bonaccorso, M.Di Toro, J.Lomnitz-Adler.  
Exponential Convergence and the Acceleration of the Hartree-Fock  
Calculation.  
Nucl. Phys. **A324** (1979) 115.
4. A.Bonaccorso, D.M.Brink.  
The Imaginary Part of the  $\alpha - {}^{40}\text{Ca}$  Optical Potential.  
Nucl. Phys. **A384** (1982) 161.



5. A.Bonaccorso, G.Piccolo, D.M.Brink.  
Nucleon Transfer to Nuclear Matter and the Absorptive Heavy-Ion Scattering Potential.  
Nucl. Phys. **A441** (1985) 555.
6. A.Bonaccorso, D.M.Brink, L.Lo Monaco.  
Nucleon Transfer in Heavy-Ion Reactions: Energy Dependence of the Cross Section.  
J. Phys. **G13** (1987) 1407.
7. A.Bonaccorso, D.M.Brink.  
Nucleon Transfer to Continuum States.  
Phys. Rev. **C38** (1988) 1776.
8. A.Bonaccorso, D.M.Brink.  
Absorption versus breakup in heavy-ion reactions.  
Phys. Rev. **C43** (1991) 299.
9. A.Bonaccorso, D.M.Brink.  
Stripping to the continuum of  $^{208}\text{Pb}$ .  
Phys. Rev. **C44** (1991) 1559.
10. A.Bonaccorso, D.M.Brink.  
Inelastic breakup in heavy-ion reactions.  
Phys. Rev. **C46** (1992) 700.
11. A.Bonaccorso, I.Lhenry and T.Suomijärvi.  
Inclusive spectra of stripping reactions induced by heavy-ions.  
Phys. Rev. **C49** (1994) 329.
12. A.Bonaccorso.  
High energy single particle states in the continuum.  
Phys. Rev. **C51** (1995) 822.

13. A.Bonaccorso.  
Single particle states in the continuum.  
Nucl. Phys. **A583** (1995) 433.
14. A.Bonaccorso.  
Neutron elastic and inelastic breakup in reactions induced by  $^{20}\text{Ne}$   
Phys. Rev. **C53** (1996) 849.
15. A.Bonaccorso, Z.Zelazny and E.Piasecki.  
Separation of Coulomb fission from nuclear fission at medium energies.  
Z. Phys. **A358** (1997) 329.
16. A.Bonaccorso and N.Vinh Mau.  
Low energy dipole modes in  $^{14}\text{C}$ ,  $^{12}\text{Be}$  and  $^{11}\text{Li}$ . Coulomb dissociation  
of  $^{11}\text{Li}$ .  
Nucl. Phys. **A615** (1997) 245.
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MAGNEX: a large acceptance magnetic spectrometer for EXCYT.  
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Neutron angular distribution from halo breakup  
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19. A.Bonaccorso and D.M.Brink.  
Dynamical effects on the parallel momentum distributions of neutrons  
from halo breakup.  
Phys. Rev. **C58** (1998) 2864.
20. A.Bonaccorso.  
Neutron transfer to the continuum reactions.  
Nucl. Phys. **A649** (1999) 315c.

21. A. Bonaccorso.  
Initial State Dependence of the Breakup of Weakly Bound Carbon Isotopes.  
Phys. Rev. **C60** 054604 (1999).
22. A. Bonaccorso.  
Transfer reactions near the Coulomb barrier.  
Acta Phys. Pol. **B30** (1999) 1421.
23. A. Bonaccorso and F. Carstoiu.  
Final state interaction effects in breakup reactions of halo nuclei.  
Phys. Rev. **C61** 034605 (2000).
24. A. Bonaccorso and N. Vinh Mau.  
Reaction and breakup cross sections of  $^{11}\text{Li}$  at 0.8 and 0.28 GeV/nucleon.  
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25. A. Bonaccorso and G. F. Bertsch.  
Comparison of transfer-to-continuum and eikonal models of projectile fragmentation reactions.  
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26. A. Bonaccorso, D. M. Brink, S. Galès, P. G. Hansen.  
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Coulomb breakup effects on the optical potentials of weakly bound nuclei.  
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