

**CURRICULUM VITAE**  
formato europeo/ European  
format

**INFORMAZIONI PERSONALI/  
PERSONAL INFORMATION**

Nome, Cognome/Name, Surname **STEFANIA DE PALO**

Indirizzo/Address **VIA BONOMEA, 265- 34074 TRIESTE, ITALY**

Telefono/Phone **+39 040 3787 374**

Fax **+39 040 3787528**

E-mail [stefaniadepalo@gmail.com](mailto:stefaniadepalo@gmail.com)  
[depalo@iom.cnr.it](mailto:depalo@iom.cnr.it)

Nazionalità /Nationality **Italian**

Luogo e Data di nascita/Place and Date of Birth **ROMA (RM) , 03/03/1967**

**ESPERIENZA PROFESSIONALE/  
WORK EXPERIENCE**

Se dipendente CNR indicare : **N. MATRICOLA 11426  
QUALIFICA RICERCATORE  
LIVELLO III**

From **16/07/2009**

Date (da – a)  
(from-to)

- 2006-2009 Post Doc at CRS CNR-INFM DEMOCRITOS on "Strongly correlated electrons in two dimensional solid state devices"
- 2004-2006 Post Doc at Università di Roma "La Sapienza".
- 1999-2001 Post Doc at Università di Roma "La Sapienza" on "Reptation Quantum Monte Carlo"
- 1997-1999 Post-Doc at Università di Trieste on " Excitonic condensation in coupled quantum wells"

Nome e indirizzo del datore di lavoro// Name and address of employer **CNR-IOM Strada Statale 14, km 163,5, 34149 Basovizza TS**

Tipo di azienda o settore **Research**

• Tipo di impiego **Researcher**

• Principali mansioni e responsabilità **Research**

## ISTRUZIONE E FORMAZIONE/ EDUCATION AND TRAINING

- Date (da – a) July 1997: Ph. D. in Physics at Università degli Studi di Roma "La Sapienza".  
Ph. D. thesis: "Effective action for superconductors and superfluids"  
Supervisor  
Prof. Carlo Di castro.  
  
July 1993: Degree(Laurea) in Physics full marks cum laude at Università di Roma "La Sapienza".  
Degree thesis: "Disorder effects in models for high  $T_c$  superconductors"  
Supervisor Prof. Claudio Castellani
- Nome e tipo di istituto di istruzione o formazione/Name and type of organisation providing education and training Università degli Studi di Roma "La Sapienza".
- Principali materie e competenze professionali apprese / Principal subjects occupational skills covered Physics
- Qualifica conseguita/Title of qualification awarded Ph. D.

## ATTIVITA` DI RICERCA/RESEARCH ACTIVITIES

- Attuali campi di ricerca / Research sectors Modelization and numerical investigation using Quantum Monte-Carlo methods and Density-Matrix Renormalization Group of low-dimensional and strongly correlated quantum systems.
- Recenti attività scientifiche/ Recent Scientific Activities. Quantum simulations with and for ultra cold atoms : Vortex-Meissner phase transition that can be observed in current experiments with cold atoms in bosonic ladders. Ultra-cold dipolar systems.
- Pubblicazioni/ Books and Articles 24 publications on international journals with referees
- Total number of citations at 27 Nov 2020: 883 (\*)
  - Hirsch index at 27 Nov 2020: 16 (\*)
- Selezione di pubblicazioni/ Selected publications
- [Vortex lattice melting in a boson ladder in an artificial gauge field](#)  
E Orignac, R Citro, M Di Dio, S De Palo, Phys. Rev. B 96, 014518 (2017)
- [Persisting Meissner state and incommensurate phases of hard-core boson ladders in a flux](#) M Di Dio, S De Palo, E Orignac, R Citro, ML Chiofalo Phys. Rev. B 92, 06050(2015)
- [Evidence of Luttinger-liquid behavior in one-dimensional dipolar quantum gases](#) R Citro, E Orignac, S De Palo, ML Chiofalo Physical Review A 75 (5), 051602 (2007)
- [Effective action for superconductors and BCS-Bose crossover](#), S De Palo, C Castellani, C Di Castro, BK Chakraverty Physical Review B 60 (1), 564 (1999)
- [Excitonic condensation in a symmetric electron-hole bilayer](#), S De Palo, F Rapisarda, G Senatore Physical review letters 88 (20), 206401 (2002)

(\*) from the site <http://scholar.google.com>

**ULTERIORI INFORMAZIONI/  
ADDITIONAL INFORMATION**

**2004-2019 Supervisor of graduate students and PhD students (6)**

**Recent Invited talks**

"Effect of valley degeneracy in two-dimensional electron-hole gases", SuperFluctuations 2018, San Benedetto del Tronto, September 5–7, 2018.

"Vortex melting in a boson-ladder in artificial gauge field", SuperFluctuations 2017, San Benedetto del Tronto, September 6–8, 2017.

**Co-organizer of the international conference** "Strongly Coupled Coulomb Systems "(SCCS2008) 29 July - 2 August 2008, Camerino, Italy.

Trieste 25/02/2020

