

# Curriculum Vitae of Claudio Verdozzi

## 1. Higher education degree

1986: Laurea in Fisica (Degree in Physics) at the "Universita' La-Sapienza" Rome (Italy)

Thesis Supervisor: Prof. Michele Cini; Thesis Opponent: Prof. G. Jona-Lasinio

Subject Area: Theoretical Solid State Physics, many-body effects in electron spectroscopies. Grade: 110/110 e Lode (Full Marks with Honours).

## 2. Doctoral degree

1996: PhD in physics at the University of Liverpool (UK), with a theoretical thesis entitled *Correlation Effects in the Late Transition Metals and their Alloys as revealed by XPS and Auger Spectroscopies*.

Supervisor: Prof. P. Weightman; thesis opponent: Prof. J. Inglesfield.

## 3. Postdoctoral Positions

2000-2003: Post Doctoral Research Associate (PDRA) at the Department of Physics, Calstate University-Northridge, Northridge CA (USA).

1998-2000: Research Fellow at the Department of Physics, Edinburgh (UK).

1996-1997: PDRA at Sandia National Labs-NM (USA) and Liverpool University (UK).

## 4. Qualifications as research fellow/associate professor

Abilitation as *Docent in Physics*, Lund University (2005).

## 5. Current position, period of appointment, share of time spent in research

Associate Professor at the Department of Physics, Division of Mathematical Physics, Lund University. Time in research: 45%; in teaching: 55%; Email: cv@teorfys.lu.se; phone: +46-(0)46-2229499.

Webpage: <http://www.teorfys.lu.se/personal/Claudio.Verdozzi/>

## 6. Previous positions and periods of appointment

2010-2012: Universitetslektor, vikarie, Lund University.

2006-2010: Nanoquanta Project Leader and ETSF Beamline Scientist at Lund University.

2004-2005: Visiting researcher at Lund University.

2003-2004: Visiting professor, Dept. of Physics, NDSU-Fargo ND (USA).

1991-1995: Phd student at IRC in Surface Science, Liverpool University (UK).

1988-1991: CNR scholarship fellow, CNR-Montelibretti (Italy).

1987-1988: High-School teacher in mathematics and physics in Rome (Italy).

1986-1987: Compulsory Military Service (Italy).

## 7. Interruptions in research

Parental leave (75%) March-September 2009

## 8. Main supervision of PhD and MSc students

M. Puig von Friesen (graduation: 6/5/2011); V.Vettchinkina (graduation: 29/5/2012); A. Kartsev (graduation: 12/6/2013); D. Karlsson (4/6/2014); Miroslav Hopjan (graduation: 23/2/2018); Emil Boström (graduation: 5/6/2018); Zhen Zhao (exp. graduation: 2023); Megha Gopalakhrisna (exp. graduation: 2023).

Supervision of 9 MSc. and 11 BSc students.

## 9. Past and current Grants

2008-2011: European Office of Aerospace Research/ Development (EOARD) and Air Force Office of Scientific Research (AFOSR) funding (240K USD); 2011: "Naturvetenskapliga fakultetens strategiska satsningar rörande ESS och MAX IV" funding (350K SEK). 2014: Vetenskapsrådet - Conference grant (70kSEK). 2016: Krappertstiftelsen (200kSEK), 2017: Craaford Foundation (300SEK), Naturvetenskapliga fakultetens strategiska satsningar rörande ESS och MAX IV" funding (380K SEK), Vetenskapsrådet (3M SEK); 2019: Craaford Foundation (300SEK).

## 10. Invitations to international conferences, last 10 years

- z) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2021
- y) "ARPES in Sweden", Stockholm (digital) 2021
- x) "Molecular Foundry Annual User Meeting.", LBNL (digital) 2021
- w) "Workshop on Quantum Technologies and Density-Functional Theory", Natal 2020
- v) "Mathematical Aspects of Time-Dependent Density Functional Theory (TDDFT)", Paris 2020
- u) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2019
- t) "KBEt<sup>2</sup>: International network Quantum Many-Body Dynamics out of Equilibrium", Kiel 2019
- s) "Optimal Transport Methods in Density Functional Theory", Banff-IRS, Canada, 2019
- r) "8th Workshop on Time-Dependent Density-Functional Theory, Benasque, 2018
- q) "Progress in Nonequilibrium Green's Functions", Rome, 2018
- p) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2017
- o) 5th Conference on Nuclei and Mesoscopic Physics, Lansing (USA), 2017
- n) "Density Functional Theory meets Quantum Information Theory", Sao Paulo 2017
- m) "Quantum Non-equilibrium phenomena", Natal (BR), 2016
- l) "Isolated Quantum Many-Body Systems out of Equilibrium", Bad Honnef 2015
- k) "Nanoscience and Nanotechnology 2015", Rome, 2015
- j) "YCQT/CMPi Workshop on Quantum Correlations and Many-Body Physics", York, 2015
- i) "Theory Days 2015", Toulouse 2015
- h) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2015
- g) "Density functional theory meets for quantum information theory", Araraquara 2014
- f) "Advances in time-depedent methods for quantum many-body systems", Trento 2013
- e) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2013
- d) "Green's Function Methods: the next generation" CECAM-Toulouse, 2013
- c) "Progress in Nonequilibrium Green's Functions", Jyväskylä 2012
- b) "Electron Correlations and Materials Properties in Compounds and Alloys", Porto-Heli 2012.
- a) "Frontiers of Quantum and Mesoscopic Thermodynamics", Prague 2011

## 11. Extramural scientific activities and assignments

- Beamline Coordinator, Management Board (2013-2014) and Steering Committee (2014-2018) member for the European Theoretical Spectroscopy Facility (<http://www.etsf.eu>)
- Reviewer for Physical Review Letters, Physical Review B, Physica, Journal of Physics Condensed Matter
- PhD opponent: Trinity College Dublin (2011), Jyväskylä University (2012), York University (2009, 2015)
- Project reviewer for NWO, Leverhulme Trust, DFG, DOE, NSF, CECAM, Israeli foundation
- Organizer of the conferences "TDDFT in Sweden" (2008), "Progress in Nonequilibrium Green's Functions VI" (2015), "21st ETSF workshop" (2016)
- Literature expert/consultant of the Physics Library at Lund University
- Coordinator (2013-2019) and examiner (2013 -) of the Diploma Work program at the Physics Department-Lund University.

## 12. Teaching

- 1987-1988: High-school Mathematics and Physics, Rome (Italy).
- 1991-1992: Superconductivity and magnetism, Camerino (Italy).
- 2003-2004: Algebra-based Physics I-II , Solid State Physics, Modern Physics, Fargo (USA).
- 2005: Exact Numerical Diagonalization approaches, Milano (Italy).
- 2006: Advanced quantum mechanics, Lund.
- 2010: Classical Advanced Electromagnetism, Lund.
- 2010-2013: Quantum Mechanics and mathematical methods, Lund.
- 2014: Many-body Physics, Lund.
- 2015-2021: Statistical mechanics, Lund.
- 2010-present: Solid State Physics, Lund.

## 13. Publications

60+ papers published in peer reviewed journal according to the Web of Science Database.