

## Curriculum Vitae: *Andrea Perali*

**Andrea Perali** is a permanent researcher in condensed matter theory at the University of Camerino (equivalent to Assistant Professor with a tenure position), in the School of Pharmacy, Physics Unit, working in collaboration with Prof. G. C. Strinati, Prof. P. Pieri and Prof. D. Neilson. He is a professor of General Physics from 2002. He is the delegate of the Rector for e-learning projects. He is a member of the committee of the Ph.D. program in Physics at the University of Camerino.

He has got the laurea and Ph.D. degree in Physics at the University of Roma “Sapienza” working in the theoretical group of Prof. C. Castellani and Prof. C. Di Castro, in collaboration with the experimental group of Prof. A. Bianconi and the theoretical group of Prof. L. Pietronero. He has been a post doc fellow for one year at the Rutgers University (USA) working with Prof. G. Kotliar on numerical methods for high-T<sub>c</sub> superconductivity.

He has won 3 prizes “Enrico Persico” from the “Accademia Nazionale dei Lincei” for the best physics students in the Rome universities and the prize of the Italian Physics Society for the scientific production of young researchers. He is the author of 44 scientific publications (with 1100 citations and Hirsch index  $h=17$ ) and in the last 3 years he published 2 letters in Nature Physics. Other 2 new works have been recently submitted for publication and a patent request has been submitted in Australia. He presented 30 talks at international conferences and universities during short term visits and 16 posters.

He participated to the scientific and organizing committees of 8 international conferences and summer school (being a co-director in two of them). He works as a referee for Physical Review Letters, Physical Review A and B (more than 60 referee reports done), for the National Science Foundation of USA and Belgium, and for the National Science and Engineering Research Council of Canada. He participated as a research member to 4 PRIN (2003, 2005, 2007, 2009), locally coordinated by Prof. G.C. Strinati.

Present research interests include theory of superconductivity and superfluidity, with particular focus on the BCS-BEC crossover, pseudogap and fluctuating phenomena in ultracold fermionic atoms and multiband superconductors and superfluids. He has 15 years of experience in diagrammatic and numerical methods to study the physics of strongly interacting fermions, developing skills in parallel computing using fortran compilers.

On the above projects, he collaborates with Prof. G.C. Strinati, Prof. P. Pieri and Prof. D. Neilson in Camerino, together with two graduate students and one post doc associate and with the experimental group of D. Jin at the University of Colorado at Boulder (USA).

He recently started a collaboration with Dr. Arkady Shanenko in Antwerp University on multiband superconductivity and superfluidity (partially supported by ESF, Marie Curie action submitted) and with A. R. Hamilton in University of New South Wales, Sydney, Australia on a new superfluid graphene-based device (patent submitted).

### **Personal data**

- Name and Surname: **Andrea Perali**
- Place and date of birth: Roma (Italy), 03/01/1972.

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