Curriculum Vitae: *Andrea Perali*

Andrea Perali is an Associate Professor of Condensed Matter Physics at the University of Camerino (Italy). In April 2017 he got the national habilitation to Full Professor. He is the delegate of the Rector for e-learning projects.

He has got the laurea (1995) and Ph.D. Degree (2000) in Physics at the University of Roma "Sapienza" working in the theoretical group of Prof. C. Castellani and Prof. C. Di Castro. He has been a post doc fellow for one year (2001) at the Rutgers University (USA) working with Prof. G. Kotliar on numerical methods for high-Tc 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 has won the prize of "Fondazione Angelo della Riccia" to partially support the post doc position in the USA. In 2015 he has been nominated "Outstanding Referee" from the American Physical Society and he has won the "Fibonacci" prize by the SuperStripes onlus and RICMASS for the pioneering studies on the superconducting stripes.

He is the author of 66 scientific publications [with 1880 citations and Hirsch index h=21 (Web of Science source)] and in the last years he published 2 letters in Nature Physics.

He partecipated to the scientific and organizing committees of 11 international conferences and 1 summer school (being a co-director in four of them). He presented 47 talks at international conferences and universities during short term visits and 16 posters.

He works as a referee for the Physical Review Journals, for the National Science Foundation of USA, the FWO in Belgium, the CNPq in Brazil, and for the National Science and Engineering Research Council of Canada.

He is an Editorial Board member of Scientific Reports – NPG, Guest Editor of Superconducting Science and Technology for the focus issue on multicomponet superconductivity, and an Editorial Board member of Condensed Matter, MDPI.

He partecipated as a research member to 4 national research priojects (PRIN), locally coordinated by Prof. G.C. Strinati. He is the Principal Investigator of the Ateneo Project on "Control and Enhancement of Superconductivity by Engineering Materials at the Nanoscale" (grant 68.000 Euro for 2 years, June 2014-May 2016) leading to the opening of the SuperNano laboratory of the University of Camerino, in collaboration with the Nanofabrication laboratory, INRIM, Turin (Italy).

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 20 years of experience in diagrammatic and numerical methods to study the physics of strongly interacting fermions, developing skills in parallel computing.

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. He has collaborated with the experimental group of Prof. D. Jin at the University of Colorado at Boulder (USA), contributing to the observation and characterization of the pseudogap phenomenon in ultracold fermions.

Starting from 2010, he started a large international collaborative effort with Prof. Arkady Shanenko and Prof. Albino Aguiar in Federal University of Pernambuco (Recife, Brasil) and with Prof. Milorad Milosevic and Prof. Francois Peeters in University of Antwerp (Belgium) on multiband superconductivity and superfluidity and with A. R. Hamilton in University of New South Wales, Sydney, Australia on a new superfluid graphene-based device.

He is the founder, together with Prof. Milosevic and Prof. Shanenko, of the International Network "MultiSuper", which runs the international conference series "MultiSuper".

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