

Curriculum Vitae et Studiorum

Sergio Pagano

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Appointments

2019 **Full Professor** of Experimental Physics at the University of Salerno, Italy

2005 **Associate Professor** of Experimental Physics at the University of Salerno, Italy

2001 **Senior Researcher** at C.N.R. Institute of Cybernetics, Pozzuoli (NA), Italy

1987 **Researcher** at C.N.R. Institute of Cybernetics, Pozzuoli (NA), Italy

Education

1987 **Ph. D. in Physics**, Technical University of Denmark, Denmark. Thesis "Nonlinear Dynamics in Long Josephson Junctions"

1984 **Degree in Physics** University of Salerno, Italy. Thesis "Studio del comportamento dinamico di una giunzione Josephson accoppiata ad un risonatore" 110/110 cum laude

Scientific coordination

During his career he has participated in various scientific research projects, funded by C.N.R., University of Salerno, I.N.F.N., I.N.F.M., and by the European Union. In particular, Sergio Pagano had the role of **scientific and coordination manager** in the following projects:

2021-23 **local resp.** experiment DARTWARS "Detector Array Readout with Traveling Wave Amplifiers" dell'I.N.F.N.

2019-21 **local resp.** experiment SIMP "Single Photon Microwave Detectors" dell' I.N.F.N.

2017-20 **local resp.** experiment FEEL "Future Energy Efficient Electronics" dell' I.N.F.N.

2017-19 **resp.** FARB UNISA

2015-17 **resp.** FARB UNISA

2011-14 **resp. C.N.R.** European Union Project "IRONSEA: Establishing the basic science and technology for Iron-based superconducting electronics applications "

2006-08 **resp. C.N.R.** European Union Project STREP "SINPHONIA: Single-photon nanostructured detectors for advanced optical applications"

2004-06 **resp.** I.N.F.M. project Seed "Fast Superconductive Optical Detectors"

2002-03 **resp.** Pirelli Labs. Research contract "Fotorisposta veloce di dispositivi superconduttivi Josephson"

1998-06 **member of the Steering Committee** RD39 "Cryogenic Tracking Detectors" C.E.R.N. – Svizzera

1998-01 **national resp.** experiment I.N.F.N. Lazarus.

1996-00 **resp. CNR** I.N.F.M. project SUD "Analisi non distruttive con correnti parassite tramite dispositivi superconduttori".

1996-99 **resp. locale** experiment I.N.F.N. Suradda

since 2010 Head of Unit of Salerno Institute of CNR SPIN

Management activity

2016–2019 **Board Member** of the Department of Physics "E.R. Caianiello "of the University of Salerno.

2016-2021 **Head of the Review Group** for the Study Courses in Physics and Environmental Sciences of the University of Salerno

2015-2019 **Board Member** of the SPIN Institute of the C.N.R.

2013-2014 **Didactic Coordinator** for the Study Course in Physics of the University of Salerno.

2012-2015 **Management Committee Member** of the PON project a3_00138 CETIS University of Salerno

2010-2014 **Head of the Salerno Operational Unit** of the SPIN Institute of the C.N.R. with responsibility for personnel management, security, and purchases.

Teaching activity

Since 2005 teacher of Physics and Physics Laboratory courses for the study courses in Physics (undergraduate and graduate level) and in Environmental Sciences. Supervisor of more than 25 degree and doctoral theses in Physics and Environmental Sciences

Research activity

The research activity was focused mainly on superconducting electronics, although it has recently been extended to the study of complexity and coherence. In particular, the addressed topics are:

Physics of Josephson junctions

High-T_c SQUID

Semiconducting cryogenic detectors.

Josephson digital circuits

superconducting detectors

New superconducting active devices

And transport properties of low frequency noise in materials and devices

Development of a theory of management based on complex systems

Application of network theory to health

Scientific publications

During his scientific activity, Sergio Pagano authored about 220 scientific publications in international journals, books and conference proceedings.

The detailed list of publications is available at <http://www.unisa.it/docenti/sergiopagano/index>