

Curriculum Vitae: Anna Ceresole (2023)

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Anna (Teresa) Ceresole was born in Torino, Italy, in 1961; after graduating from Torino University in 1984, she earned a PhD in Physics from the State University of New York (SUNY) at Stony Brook (USA) in 1989. She was a postdoctoral fellow at CALTECH (Pasadena, CA, USA) in 1989-1992 and back at the University of Torino in 1992-1993. In 1993, she became a tenured University Researcher (Assistant Professor) at the Politecnico of Torino and in 2003 a Senior Researcher (Associate Professor) at the Torino Division of INFN (Istituto Nazionale di Fisica Nucleare), within the Physics Department, of Torino University. Since 2018 she is an INFN Director of Research. She was a Visiting Scientist of CERN Theory Department (where she is a regular user since 1992) in 1998 and 1999, at UCLA in 1996, 2005 and 2012 and at the ITP Santa Barbara in 1996. She is of Italian nationality, married with three children.

Anna Ceresole has written [over sixty research papers](#) and edited [one book](#) in the field of theoretical high energy physics and mathematical physics, with about 3700 citations and a factor $h=27$ according to SPIRES database, including 1 Renowned, 1 Famous and 10 Very Well Known papers. Her research activity focusses on algebraic and geometric aspects of quantum field theory, conformal invariant theories, supersymmetric theories such as supergravity and superstrings, their applications to the unified quantum theories of elementary particles including gravity, black holes and cosmology. Her main achievements concern the construction of supergravity lagrangeans in 4 and 5 dimensional spacetimes, describing the interaction between supergravity and matter, the analysis of their electric-magnetic duality symmetries and the description by first order flow equations of extremal non supersymmetric black holes in supergravity.

Her main collaborations so far have involved S. Ferrara (CERN, Geneva), G. Dall'Agata (U. Padova), P. van Nieuwenhuizen (SUNY, Stony Brook), A. van Proeyen (Leuven), R. D'Auria (Politecnico, Torino), P. Fre' (U. Torino) and R. Kallosh (Stanford). Her results have been presented at various institutions and in the main international conferences in USA, Europe and Australia. She has been key scientist in EU research networks since 1991 and a Team Member of the ERC AdG "Supersymmetry, Quantum Gravity and Gauge Fields" ("[Superfields](#)") with PI S. Ferrara (CERN) from 2012 to 2017; from 2013 to 2017 she has been Working Group Leader and Management Committee member for the COST Action MP1210 "[A String Theory Universe](#)".

A. Ceresole also acted as member of International Advisory Boards and Organizing Committees for a number of International Conferences and Schools in the field of High Energy Theoretical Physics. She has served as Expert Evaluator for the NSF (USA), the Spanish Ministry of Education (Severo Ochoa and Maria de Maetzu Panels), the FWO (Belgium), the Austrian Science Fund and in several EU panels for University positions. She has performed teaching in University for over 25 years and she has been involved in various outreach and gender promotion activities, including the theatre plays "Corollaries" and "[La Forza nascosta](#)". She has been director of the organisation Teatro&Scienza in Turin in 2022-23.

From 2015 to 2022 she has been Coordinator of the INFN Theory Group in Torino, comprising about 120 theoretical physicists from The University of Torino, the Politecnico of Torino, the University of Eastern Piedmont in Alessandria and INFN. From 2017 to 2023 she has been national PI of the INFN special project "[Gauge Theories, Supergravity and String Theory](#)", involving about 70 scientists in Torino, Milano Bicocca, Milano, Genova, Padova, Lecce, Rome and the Scuola Normale Superiore in Pisa. Since 2017, she sits in the managing board of the [Regge Center](#) for Algebra, Geometry and Theoretical Physics in Torino and since 2023 she coordinates its scientific committee. From 2018 to 2023, she has served as a nominated member of the scientific council of the [Institut de Physique of CNRS](#). In 2023 she has been appointed to teach at U. Bocconi the interdisciplinary course in Fundamental Physics "[Gravitating The Cosmos](#)".