

The Legacy of Supergravity

Università di Roma "Tor Vergata"
Villa Mondragone, June 6-8 2005



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As part of the celebrations for the **World Year of Physics 2005**, the University of Rome "Tor Vergata" will award, during thematic Conferences, Honorary Degrees in Physics to four eminent scientists whose research activities reflect the four key areas of interest of its Physics Department: Astrophysics, Condensed Matter Physics, Nuclei and Particles and Theoretical Physics.

For Theoretical Physics, the Honorary Degree will be awarded to Sergio Ferrara, and the Thematic conference will focus on Supergravity, the remarkable supersymmetric extension of Einstein's General Relativity introduced in 1976 by Sergio Ferrara of CERN (then at LNF - Frascati), Daniel Z. Freedman of MIT and Peter van Nieuwenhuizen of the C.N. Yang Institute for Theoretical Physics at Stony Brook.



Supergravity has played a pivotal role in Theoretical Physics during the last thirty years, in particular as a special class of field theories providing the low-energy manifestation of superstrings. Even more importantly, it has provided a profound guiding principle for the dualities between superstrings and for their still largely unexplored connection to M-theory, whose low-energy limit is described again by a form of supergravity, in eleven dimensions, discovered in 1978 by Eugene Cremmer, Bernard Julia and the late Joel Scherk of the Ecole Normale Supérieure in Paris.



The Conference will take place at Villa Mondragone, the beautiful Conference venue of the University located on the Alban hills overlooking Rome (some pictures may be found in www.villamondragone.it), on June 6-8 2005.

It is meant to honor Sergio Ferrara, a world leader in Theoretical Physics and a founder of Supergravity. It will include a number of invited contributions by his former collaborators, and will be concluded on Wednesday, June 8, by a ceremony during which Sergio Ferrara will receive an Honorary Degree in Physics.

The Conference is supported by INFN (Sections of LNF-Frascati and Tor Vergata), by the MIUR-COFIN Contract 2003-023852, by the EU contracts MRTN-CT-2004-503369 and MRTN-CT-2004-512194, by the INTAS contract 03-51-6346 and by the NATO Grant PST.CLG.978785, and is sponsored by SIGRAV, the Italian Society of General Relativity and Gravitational Physics.

The deadline for registration is May 20, 2005, and there will be a 100 Euro Conference Fee. Our Secretarial Office will be happy to provide help for accommodation to all participants, but overall attendance will be limited to about 100.

Invited speakers

I. Antoniadis (CERN), R. Barbieri (Scuola Normale Superiore), L. Castellani (U. Piemonte Orientale),
R. D'Auria (Politecnico di Torino), J.P. Derendinger (U. Neuchatel),
P. Di Vecchia (Nordita), P. Fre' (U. Torino), D.Z. Freedman (MIT),
L. Girardello (U. Milano Bicocca), M. Gunaydin (Penn State), K. Kounnas (Ecole Normale Supérieure),
J. Louis (U. Hamburg), D. Lust (Ludwig Maximilian U.), M. Porrati (NYU),
C. Savoy (CEA Saclay), E. Sokatchev (LAPP-Annecy), K.S. Stelle (Imperial College),
P. van Nieuwenhuizen (Stony Brook), A. van Proeyen (U. Leuven), F. Zwirner (U. Roma "La Sapienza")

Organizing Committee

M. Bianchi (U. Roma "Tor Vergata" and INFN), F. Palumbo (INFN-LNF), A. Sagnotti (U. Roma "Tor Vergata" and INFN)

Conference Secretariat

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