



The Galileo Galilei Institute for Theoretical Physics Arcetri, Florence



Galileo Galilei

International Workshop on "Advances in Precision Tests and Experimental Gravitation in Space"

September 28-30, 2006

In recent years, precision tests of fundamental laws of physics have made remarkable progress, challenging our understanding of the Universe with ingenious and fascinating experiments on both macroscopic objects and quantum systems. Many of these high precision measurements would gain orders of magnitude in sensitivity in space environment, thanks to long free-fall duration, large changes in velocity and gravitational potential, large distance scales, and absence of seismic noise.

The workshop is intended to:

- Present recent results and advances in precision instruments and tests of fundamental laws of physics both on ground and in space;
- Discuss how ground-based experiments can be extended into space missions to test our understanding of the Universe;
- Present new ideas and proposals for the next generation of fundamental physics "explorers" in space;
- Encourage international collaborations between research institutes on topics of common interest.

The number of participants is limited to 100. Applications should be submitted before July 15, 2006. The participation fee is 150 Euro including lunches and social dinner.

Workshop website: http://www.fi.infn.it/GGI-grav-space/egs_w.html.

Before the workshop, a School on "EXPERIMENTAL GRAVITATION IN SPACE" will take place at GGI. Information and application forms are available at the website: http://www.fi.infn.it/GGI-grav-space/egs_s.html.

Organizing Committee: L. Cacciapuoti (ESTEC, NL), W. Ertmer (IQ, D), C. Salomon (ENS, F), G. M. Tino (University of Firenze and INFN, I).

Scientific Committee: L. Cacciapuoti (ESTEC, NL), T. Damour (IHES, F), H. Dittus (University of Bremen, D), W. Ertmer (IQ, D), P. Gill (NPL, UK), S. Leon (CNES, F), A. Nobili (University of Pisa, I), C. Nary Man (CNRS-OCA, F), W. Phillips (NIST, USA), S. Reynaud (LKB, F), C. Salomon (LKB, F), S. Schiller (University of Düsseldorf, D), G. M. Tino (University of Firenze, I), G. Veneziano (CERN, CH)

Local Organization and Secretariat: Dr. Andrea Bertoldi, Dr. Francesca Tinelli

Preliminary list of Speakers:

William Bencze (University of Stanford, USA)

Ignazio Ciufolini (University of Lecce, I)

Hansjoerg Dittus (University of Bremen, D)

Patrick Gill (NPL, UK)

Luciano Iess (University of Rome, I)

Pierre Lemonde (SYRTE, F)

Anna Nobili (University of Pisa, I)

Ernst Rasel (University of Hannover, D)

S. Schiller (University of Düsseldorf, D)

Guglielmo G. Tino (University of Firenze, I)

Slava G. Turychev (JPL, USA)

Gabriele Veneziano (CERN, CH)

Flavio Vetrano (University of Urbino, I)

Stefano Vitale (University of Trento, I)

Jun Ye (JILA, USA)

GGI: <http://www.fi.infn.it/GGI/>