

WORKSHOP FINAL PROGRAM

¹Monday May 27

Morning session (Chair: Ian W. Roxburgh)

- 09.30-09.55 David Blair: *High sensitivity tilt measurements*
09.55-10.25 Jens Gundlach: *"Eöt-Wash" torsion balance results on EP testing, G measurement, submillimeter tests of inverse-square law: I*
10.25-10.55 Terry Quinn: *G measurements*

Coffee break

- 11.30-12.00 Christian Marchal: *Microscope*
12.00-12.25 Alberto Anselmi: *GG satellite in sun synchronous orbit*
12.25-12.55 Tim Sumner: *STEP*

Lunch break

Afternoon session (Chair: Ron Drever)

- 14.30-14.55 Angela di Virgilio: *Status report of the Low Frequency Facility, Virgo R&D, to measure Virgo suspension thermal noise*
14.55-15.25 Vincenzino Dattilo: *VIRGO seismic isolation system*
15.25-15.55 Wei Tou Ni: *ASTROD*

Coffee break

- 16.30-17.00 Anna Nobili: *GG: design, error budget and significance of the ground prototype*
17.00-17.30 Ephraim Fishbach: *Testing newtonian gravity at nanometer distance scale*
17.30-17.55 Massimo Bassan: *Measurement of small forces on large masses: resonant gravitational wave detectors*
17.55-18.20 Valerio Iafolla: *Test of the equivalence principle in an Einstein elevator: progress report*
18.20-18.45 Federico Palmonari: *G measurement with superconducting gravimeter*

¹ **Note: All talks include at least 5 minutes for discussion**

International Workshop
*Experiments on the equivalence principle:
from Earth to space probing General Relativity, Pisa-Florence May 27-29, 2002*

²Tuesday May 28

Morning session (Chair: Jens Gundlach)

- 09.00-09.25 Ephraim Fishbach: *Deflection of spacecraft trajectory as a new test of general relativity*
09.25-09.50 David Lucchesi: *LAGEOS II perigee shift and Schwarzschild gravitoelectric field*
09.50-10.15 Christian Marchal: *General theory of relativity: does a rapidly rotating body fall slower than a non rotating body*
10.15-10.40 Giuseppe Ruoso: *Measurement of the Casimir force between parallel metallic surfaces*

Coffee break

- 11.30-11.55 Gian Luca Comandi: *The GGG prototype*
11.55-12.20 Juergen Stuhler: *Proposed cold atoms gravimeter*
12.20-12.45 Luca Haiberger: *Measurement of gravitational force at short distance*

Lunch break

Afternoon session (Chair Ephraim Fishbach)

- 14.30-15.00 Jens Gundlach: *"Eöt-Wash" torsion balance results on EP testing, G measurement, submillimeter tests of inverse-square law: II*
15.00-15.25 Angelo Tartaglia: *Can rotating bodies produce general relativistic effects in a laboratory?*
15.25-15.55 Andrea Milani: *Tests of general relativity with the BepiColombo mission to Mercury*

Coffee break

- 16.30-16.55 Raffaella Toncelli: *Radiometer effect in space experiments to test the equivalence principle*
16.55-17.20 Valerio Iafolla: *G measurement with differential gradiometer: preliminary results*
17.20-17.45 Albrecht Ruediger: *Outgassing effects in space borne position sensors*
17.45-18.15 Salvo Marcuccio: *FEEP thrusters for small force space missions*

Workshop official dinner

After dinner talk by ASI Director of Science Giovanni Bignami on:
Galileo's heritage: planets, art, history

Wednesday, May 29

Visit to the GG prototype accelerometer in the laboratories of Laben-Divisione Proel Tecnologie, Viale Machiavelli 31, Firenze (9-13)

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