2nd International Workshop on Antimatter and Gravity (WAG 2013)

Wednesday 13 November 2013 - Friday 15 November 2013

Scientific Programme

T. Ariga (Albert Einstein Center for Fundamental Physics, Laboratory for High Energy Physics, U. Bern)

Measuring gbar with emulsion detectors

H. Baumann (Federal Institute of Metrology, Bern)

High precision measurements of the gravitational acceleration g

A. Benoît-Lévy (University College, London)

The Dirac-Milne cosmological model

L. Blanchet (Inst. d'Astrophysique, Paris)

MOND phenomenology and gravitational polarization

C. Bordé (SYRTE, Observatoire de Paris)

5D relativistic optics for matter and antimatter wave interferometry

P. Bräunig (Kirchhoff Institute of Physics, Heidelberg)

Moiré deflectometry with atoms and antiatoms

D. B. Cassidy (University College, London)

Weighing antimatter with positronium

M. Charlton (Swansea University)

SUMMMARY talk

P. Crivelli (ETH-Zurich)

Testing antigravity with positronium

J. Fajans (University of California, Berkeley)

A new technique to measure the gravitational mass of antihydrogen

K. Hashimoto (Osaka University)

Lorentz violation and vacuum structure in string theories

L. Hilico (Laboratoire Kastler-Brossel, Paris)

Measuring the free fall of antihydrogen with GBAR

M. Holzscheiter (University of New Mexico)

Test of the weak equivalence principle from particle-antiparticle cylotron frequencies

M. Jankowiak (Heidelberg)

Experimental constraints on the gravitational force on antimatter

S. Karshenboim (Max Planck Institute for Astrophysics, Munich)

Constraints from the weak equivalence principle

M. Kasevich (Stanford University)

Experimental tests of the weak equivalence principle

K. Kirch (Paul Scherrer Institut, Villigen)

Testing antigravity with muonium

D. Krasnicky (INFN Genova)

Measuring gbar with AEgIS, progress and perspectives

S. Maury (CERN)

Present and future facilities at CERN

A. Nobili (Pisa University)

Testing the weak equivalence principle with macroscopic proof masses on ground and in space

W. Quint (GSI, Darmstadt)

An Antigravity Experiment for the Future FLAIR Facility

S. Reynaud (Laboratoire Kastler Brossel, Paris)

Quantum reflection of antihydrogen from material surface

P. Salati (Laboratoire d'Annecy-le-Vieux de Physique Théorique LAPTH)

Dark matter annihilation in the Universe

G. Skinner (Das Max-Planck-Institut für extraterrestrische Physik, Munich)

Antimatter in the Universe and the PAMELA/FERMI anomaly

J. Tasson (Carleton College, Northfield, USA)

Gravity effects on antimatter

C. S. Unnikrishnan (Tata Institute of Fundamental Research, Mumbai)

True tests of the weak equivalence principle for antiparticles

D. P. Van der Werf (Swansea University)

The GBAR experiment

A. Voronin (Lebedev Physical Institute)

Gravitational quantum states of antihydrogen