Foreword

The 2nd International Workshop on Antimatter and Gravity (WAG 2013) took place on 13–15 November 2013 at the University of Bern, Switzerland, hosted by the Albert Einstein Center for Fundamental Physics (AEC), following the first workshop held in 2011 at the Institut Henri Poincaré in Paris. The members of the International Advisory Committee and of the Local Organizing Committee are listed below. Details can be found on the conference web site.*

The purpose of this meeting was to review the experimental and theoretical aspects of the interaction of antimatter with gravity. Tests of the weak equivalence principle (WEP) with matter on ground and in space were reviewed, and the ensuing constraints on the gravitational interaction between matter and antimatter were lively discussed. New ideas to measure the gravitational free-fall of antimatter with, e.g. positronium, muonium and antihydrogen were presented. Progress reports on the antimatter experiments at the CERN Antiproton Decelerator and at the future facilities ELENA (CERN) and FLAIR (GSI) were delivered. A session was also devoted to the relevance of antimatter with respect to Dark Energy and Dark Matter in the Universe.

Appropriately, the WEP being a cornerstone of Einstein's General Relativity, a visit of the house at the *Kramgasse 49*, where Einstein spent the year 1903 until his "Annus Mirabilis" in 1905, was organized. A social dinner at the "Altes Tramdepot" was part of the social programme.

The Workshop (28 plenary invited talks) took place in the "Kuppelraum" of the main building of the University, and was attended by 69 registered participants plus additional guests.

The articles published in these Proceedings were peer-reviewed. Nevertheless, the scientific accuracy and statements made in the papers rest with the sole responsibilities of the authors.

The conference was sponsored by the Laboratory of High Energy Physics of the AEC. We wish to thank Ms. I. Neeser and Ms. U. Witschi for assisting us with the organization of the event, such as the registration of participants and the coffee breaks.

Claude Amsler & Paola Scampoli

*<https://indico.cern.ch/event/227924/>

International Advisory Committee

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G. Chardin (CNRS/IN2P3, France)
M. Doser (CERN, Switzerland)
T. Jolicoeur (CNRS/Université Paris-Sud, France)
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Akitaka Ariga
Antonio Ereditato
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James Storey
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Participants

AMSLER, Claude	AEC/LHEP, Bern University, Bern
ARIGA, Akitaka	AEC/LHEP, Bern University, Bern
ARIGA, Tomoko*	AEC/LHEP, Bern University, Bern
BAUMANN, Henri*	Federal Institute of Metrology METAS, Bern
BENOIT-LÉVY, Aurélien*	University College, London
BLANCHET, Luc*	Institut d'Astrophysique de Paris
BORDÉ, Christian*	Académie des Sciences, Paris
BRÄUNIG, Philippe*	Kirchhoff-Institute for Physics, Heidelberg
CABBOLET, Marcoen	Vrije Universiteit, Brussel
CARAVITA Ruggero	INFN, Genoa
CASSIDY, David*	University College, London
CHARLTON, Michael*	Swansea University, Swansea
CHLOÉ, Malbrunot	CERN, Geneva
CARLI, Christian*	CERN, Geneva
CRIVELLI, Paolo*	Institute for Particle Physics, ETH, Zurich
DE MIRANDA	Federal University of Rio de Janeiro, Rio de Janeiro
SILVEIRA, Daniel	
DICKERSON, Susannah*	Stanford University, Stanford
DUFOUR, Gabriel*	Laboratoire Kastler-Brossel, Université Pierre et Marie Curie, Paris
EREDITATO, Antonio	AEC/LHEP, Bern University, Bern
FAJANS, Joel*	U.C. Berkeley, Berkeley
FUTAMASE, Toshifumi	Astronomical Institute, Tohoku Universit, Sendai
GERBER, Paul	Gerber Molecular Design, Amden
GLIGOROVA, Angela	University of Bergen, Bergen
HAAS, Samuel	ETH, Zurich
HAIDER Stefan	CERN, Geneva
HASHIMOTO, Koji*	Osaka University, RIKEN
HASLINGER, Philipp	University of Vienna VCQ, Vienna
HILICO, Laurent*	Laboratoire Kastler Brossel, Université d'Evry Val d'Essone, Evry
HOLZSCHEITER, Michael*	University of New Mexico, Albuquerque
JANKOWIAK, Martin*	Stanford University, Stanford
JOLICOEUR, Thierry	CNRS and University Paris-XI, Orsay
KARSHENBOIM, Savely*	Mpq & Amp; Pulkovo OBS, Garching
KAWADA, Jiro	AEC/LHEP, Bern University, Bern

*Speaker.

KHAW, Kim Siang	ETH, Zurich
KIMURA, Mitsuhiro	AEC/LHEP, Bern University, Bern
KIRCH, Klaus*	PSI & ETH, Zurich
KRASNICKY, Daniel*	INFN, Genoa
LAMMERZAHN, Claus	Center of Applied Space Technology and Microgravity, Bremen
LEBRUN, Patrice	IPNL, Lyon
LEHNER, Sebastian	Stefan Meyer Institut, Vienna
LISZKAY, Laszlo	IRFU CEA Saclay, Gif-Sur-Yvette
MAURY, Stephan	CERN, Geneva
NOBILI, Anna Maria*	Dipartimento di Fisica "E. Fermi", University of Pisa, Pisa
OBERTHALER, Markus	Kirchhoff-Institut for Physics, Heidelberg
OELERT, Walter	Johannes Gutenberg-University, Mainz
PEREZ, Patrice	CEA Saclay, Gif-Sur-Yvette
PHILLIPS, Thomas	Duke University, Durham
PISTILLO, Ciro	AEC/LHEP, Bern University, Bern
PORTER, Sarah	CHUV, Lausanne
PROTASOV, Konstantin	Laboratory for Subatomic Physics and Cosmology, Grenoble
QUINT, Wolfgang*	Helmholtzzentrum GSI, Darmstadt
SACQUIN, Yves	Laboratoire Kastler Brossel, Paris
SALATI, Pierre*	LAPTH, Annecy
SCAMPOLI, Paola	Dipartimento di Fisica, Università di Napoli Federico II, Napoli
SIMON, Martin	Stefan Meyer Institut, Vienna
SKINNER, Gerry*	Keystone College, La Plume, Pennsylvania
STOREY, James	AEC/LHEP, Bern University, Bern
SUBIETA VASQUEZ, Martin Alfonso	University of Brescia, Brescia
TASSON, Jay*	Carleton College, Northfield, Minnesota
TESTERA, Gemma	INFN, Genoa
TRANQUILLE, Gerard	CERN, Geneva
UNNIKRISHNAN, C.S.*	Tata Institute of Fundamental Research, Mumbai
VAN DER WERF, Dirk*	Swansea University, Swansea
VON BALLMOOS, Peter	Institut de Recherche en Astrophysique et Planétologie, Toulouse
VORONIN, Alexei*	P.N. Lebedev Physical Institute, Moscow
WIDMANN, Eberhard	Stefan Meyer Institut, Vienna
WOLF, Sebastian	Johannes Gutenberg University, Mainz
WURTELE, Jonathan	University of California, Berkeley
ZAVATARELLI, Sandra	INFN, Genoa