It is extremely difficult to induce penguins to drink warm water.
John Coleman

Subject: Joan Sola, The cosmological constant and entropy problems,
arXiv:1505.05863v1 [gr-qc], p. 2: "Truly bewildering, if formulated on these grounds!"
Date: Sun, 24 May 2015 18:03:36 +0300
Message-ID: <CAM7Ekxn6i7YfV_Kq1TUKJVGOop5Vxo5b778DVeTHPFRgcShCEA@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Joan <sola@ecm.ub.edu>
Cc: Ivo.van.Vulpen@nikhef.nl,
Norbert Straumann <norbert.straumann@gmail.com>,
Ruth Durrer <Ruth.durrer@unige.ch>,
Mike <mturner@kicp.uchicago.edu>,
George F Smoot III <gfsmoot@lbl.gov>,
Anthony Leggett <aleggett@illinois.edu>,
Anthony Zee <zee@kitp.ucsb.edu>,
George Efstathiou <gpe@ast.cam.ac.uk>,
Jeremiah P Ostriker <ostriker@princeton.edu>,
Don Page <profdonpage@gmail.com>,
Frank Tipler <tipler@math.tulane.edu>,
George <gfrellis@gmail.com>,
Robert van den Hoogen <rvandenh@stfx.ca>,
Craig Copi <cjc5@po.cwru.edu>,
Klaas Landsman <landsman@math.ru.nl>,
Hans Ohanian <hohanian@uvm.edu>,
Naresh Dadhich <nkd@iucaa.ernet.in>,
Paddy <nabhan@iucaa.ernet.in>,
Tejinder Singh <tpsingh@tifr.res.in>,
Peter Jenni <Peter.Jenni@cern.ch>,
Pankaj S Joshi <psj@tifr.res.in>,
David J Miller <djm@hep.ucl.ac.uk>,
Henk van Elst <hvanelst@karlshochschule.de>,
Chris Van Den Broeck <vdbroeck@nikhef.nl>

As Ivo van Vulpen remarked, "Why is the universe larger than a football?"

Check out pp. 24-25 in
http://www.god-does-not-play-dice.net/horizon.pdf

The solution is from Plato, some twenty-five centuries ago. No need to
invent the wheel.

D. Chakalov

==========

Subject: Quentin G. Bailey, What do we know about Lorentz Symmetry?
arXiv:1505.05975v1 [gr-qc], Sec. 2.
Date: Mon, 25 May 2015 13:45:07 +0000
Message-ID: <CAM7EkxnCb9XdwZnBJPBkPjwqRx9H3ErnLtv23+b=GHvSqrNjkw@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Quentin G Bailey <baileyq@erau.edu>
Cc: John Moffat <jmoffat@perimeterinstitute.ca>,
Florian Beyer <fbeyer@maths.otago.ac.nz>,
Leon Escobar <lescobar@maths.otago.ac.nz>,
Yuri Bonder <bonder@nucleares.unam.mx>,
Jörg Frauendiener <joergf@maths.otago.ac.nz>,
Laszlo Szabados <lbszab@rmki.kfki.hu>,
Paul Tod <tod@maths.ox.ac.uk>,
Adam Helfer <helfera@missouri.edu>

Dear Dr. Bailey:

Thank you for your very valuable paper.

Perhaps you will be interested to see pp. 24-25 in
http://www.god-does-not-play-dice.net/horizon.pdf

There is no violation of Lorentz Symmetry. There is no need for "asymptotically de Sitter space-times" (L. Szabados and P. Tod, in preparation) and other parapsychology either.

Kind regards,

D. Chakalov
chakalov.net

==========

Subject: Re: Red herrings by Jorge Pullin, arXiv:1505.02089v1 [gr-qc]
Date: Tue, 12 May 2015 11:24:35 +0300
Message-ID: <CAM7Ekxk2A-nbopZ+WSKDCeShy9G0hRXAkECCUg2ag0YW6prZvw@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Feldwebel Hans Georg Schultz <pullin@phys.lsu.edu>,
Karel V Kuchar <kuchar@physics.utah.edu>,
Chris Isham <c.isham@imperial.ac.uk>,
Charles Torre <charles.torre@usu.edu>,
Stanley Deser <deser@brandeis.edu>,
Robert M Wald <rmwa@midway.uchicago.edu>,
Robert Geroch <geroch@midway.uchicago.edu>,
Charles W Misner <misner@umd.edu>,
Jim Isenberg <isenberg@uoregon.edu>,
Malcolm MacCallum <m.a.h.maccallum@qmul.ac.uk>,
Abhay Ashtekar <ashtekar@gravity.psu.edu>,
Rodolfo Gambini <rgambini@fisica.edu.uy>,
Ulrich Sperhake <sperhake@tapir.caltech.edu>,
Javier Olmedo <jolmedo@phys.lsu.edu>,
Jose M M Senovilla <josemm.senovilla@ehu.es>,
Alan Rendall <rendall@aei.mpg.de>,
Helmut Friedrich <hef@aei.mpg.de>,
Lars Andersson <laan@aei.mpg.de>,
Richard Woodard <woodard@phys.ufl.edu>,
Andrew Waldron <wally@math.ucdavis.edu>,
Steven Carlip <carlip@physics.ucdavis.edu>,
John Baez <baez@math.ucr.edu>,
Bahram Mashhoon <mashhoonb@missouri.edu>,
Matt Visser <matt.visser@msor.vuw.ac.nz>,
Paul Davies <deepthought@asu.edu>,
Kip <kip@tapir.caltech.edu>,
Dorje Brody <d.brody@imperial.ac.uk>,
Andreas <andreas.doering@comlab.ox.ac.uk>,
Cecilia Flori <cflori@perimeterinstitute.ca>,
Laszlo Szabados <lbszab@rmki.kfki.hu>,
Adam Helfer <helfera@missouri.edu>,
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Greg Galloway <galloway@math.miami.edu>,
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David Albert <da5@columbia.edu>,
IGUS Jim <hartle@physics.ucsb.edu>,
Daniel Kennefick <danielk@uark.edu>,
Jirí Bicák <Jiri.Bicak@mff.cuni.cz>,
Warren Johnson <johnson@ligo.phys.lsu.edu>,
Gabriela González <gonzalez@lsu.edu>,
Alessandra Buonanno <buonanno@physics.umd.edu>,
Hermann Nicolai <Hermann.Nicolai@aei.mpg.de>,
Sean Carroll <seancarroll@gmail.com>,
Carlo Rovelli <rovelli@cpt.univ-mrs.fr>,
Alejandro Perez <perez@cpt.univ-mrs.fr>,
Daniele Oriti <daniele.oriti@aei.mpg.de>,
Claus Kiefer <kiefer@thp.uni-koeln.de>,
Domenico Giulini <giulini@itp.uni-hannover.de>,
Baron Rees of Ludlow <mjr@ast.cam.ac.uk>,
Luciano Rezzolla <luciano.rezzolla@aei.mpg.de>,
Templeton Foundation <info@templeton.org>
Cc: Sean Hayward <sean_a_hayward@yahoo.co.uk>,
Hans Ringström <hansr@kth.se>,
Gary Horowitz <gary@physics.ucsb.edu>,

Gabor Etesi <etesi@math.bme.hu>,
Robert E Gompf <gompf@math.utexas.edu>,
András <stipsicz@renyi.hu>,
Ed Witten <witten@ias.edu>,
Steven Weinberg <weinberg@physics.utexas.edu>,
Sergiu Klainerman <seri@math.princeton.edu>,
Demetrios Christodoulou <demetri@math.ethz.ch>,
Merced Montesinos Velásquez <merced@fis.cinvestav.mx>,
Jean-Pierre Derendinger <derendinger@itp.unibe.ch>,
Michael Eichmair <michael.eichmair@math.ethz.ch>,
Wei-Tou Ni <weitou@gmail.com>,
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ROLF.HEUER@cern.ch,
JOACHIM.MNICH@desy.de,
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JoAnne Hewett <HEWETT@slac.stanford.edu>,
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MANFRED.KRAMMER@oeaw.ac.at,
MEIERK@kip.uni-heidelberg.de,
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URS.WIEDEMANN@cern.ch,
CHARLOTTE.JAMIESON@stfc.ac.uk,
Fabiola Gianotti <Fabiola.Gianotti@cern.ch>,
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GILAD.PEREZ@cern.ch,
JAMES.WELLS@cern.ch,
ANDREA.THAMM@cern.ch,
CHRISTIAN.THOMAS.BYRNES@cern.ch,
ANNE-MARIE.PERRIN@cern.ch,
Susanne Reffert <SUSANNE.REFFERT@cern.ch>,
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Georgi Dvali <GEORGI.DVALI@cern.ch>,
HYUN.MIN.LEE@cern.ch,
GEORGE.ZOUPANOS@cern.ch,
James Gillies <James.Gillies@cern.ch>,
Carla Cederbaum <cederbaum@math.uni-tuebingen.de>,
rbarnard@cfa.harvard.edu,
hofstett@itp.uni-frankfurt.de,
philipsen@th.physik.uni-frankfurt.de,
gwpaw2015_support@gwv.hep.osaka-cu.ac.jp,
rxh1@psu.edu,
Yongge Ma <mayg@bnu.edu.cn>,
Sijie Gao <sijie@bnu.edu.cn>,
Eduardo Guendelman <guendel@bgumail.bgu.ac.il>

P.S. Check out the note on p. 24 (attached) in

http://www.god-does-not-play-dice.net/horizon.pdf
(May 12, 2015, 10:36 GMT)

D.C.

On Mon, 11 May 2015 15:12:41 +0300, Dimi Chakalov <dchakalov@gmail.com> wrote:
[snip]

==========

Subject: Statistics of red herring radiance and the red herring area spectrum
Date: Thu, 14 May 2015 11:56:12 +0300
Message-ID: <CAM7EkxmuJTNV4NOQW2pguakqoiASKi6M5tSHKt0tzma_hDxLzQ@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Jacob Bekenstein <bekenste@phys.huji.ac.il>
Cc: Grisha Volovik <volovik@boojum.hut.fi>, Matt Visser <matt.visser@msor.vuw.ac.nz>,
William G Unruh <unruh@physics.ubc.ca>, Jeff Steinhauer <jeffs@physics.technion.ac.il>,
Gil Jannes <gil.jannes@uc3m.es>, Sean Weinberg <sjweinberg@berkeley.edu>,
Peng Wang <pengw@scu.edu.cn>, Gerardus <g.thooft@uu.nl>, John Ellis <John.Ellis@cern.ch>,
John M Lee <johnmlee@uw.edu>, Steven Weinberg <weinberg@physics.utexas.edu>

Jacob D. Bekenstein, arXiv:1505.03253v1 [gr-qc] , p. 2: "The question
we focus on is whether any insight into quantum gravity can be had
from such investigation."
--

Of course not,
http://www.god-does-not-play-dice.net/horizon.pdf

D. Chakalov

==========

Subject: The "goddamn particle"
Date: Sun, 17 May 2015 03:38:58 +0300
Message-ID: <CAM7EkxmR9ntwhp7z7Kmjf56HB1ODEih-zihXwkdYzU+dDBaa0A@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: lederman@fnal.gov, vsharma@physics.ucsd.edu, Oliver.Buchmueller@cern.ch,
Joseph.Incandela@cern.ch, Arnaud.Marsollier@cern.ch,
Renilde.Vanden.Broeck@cern.ch, Joanna.Iwanska@cern.ch, Press.Office@cern.ch

Dear colleagues,

Check out pp. 24-25 in
http://www.god-does-not-play-dice.net/horizon.pdf

The fun is just around the corner!

Sincerely,

D. Chakalov

==========

Subject: Re: The proof of the (Higgs) pudding
Date: Mon, 18 May 2015 15:40:23 +0300
Message-ID: <CAM7Ekx=rOa86uwqDYd90K5mwu1PtrMzs5KkbfN015Ab8yFhRbg@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: David J Miller <djm@hep.ucl.ac.uk>
Cc: SERGIO.BERTOLUCCI@cern.ch,

ROLF.HEUER@cern.ch,
JOACHIM.MNICH@desy.de,
LOHSE@physik.hu-berlin.de,
KATSAN@admin.in2p3.fr,
JoAnne Hewett <HEWETT@slac.stanford.edu>,
DYREKTOR@ifj.edu.pl,
MANFRED.KRAMMER@oeaw.ac.at,
MEIERK@kip.uni-heidelberg.de,
THOMAS.MUELLER@kit.edu,
Kerstin Borras <KERSTIN.BORRAS@desy.de>,
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RAFFELT@mpp.mpg.de,
MARKUS.SCHUMACHER@physik.uni-freiburg.de,
ACHIM.STAHL@physik.rwth-aachen.de,
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JURGEN.SCHUKRAFT@cern.ch,
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CHARLOTTE.JAMIESON@stfc.ac.uk,
Fabiola Gianotti <Fabiola.Gianotti@cern.ch>,
th-unit-secretariat@cern.ch,
Ignatios Antoniadis <antoniadis@itp.unibe.ch>,
Peter Jenni <Peter.Jenni@cern.ch>,
John Ellis <John.Ellis@cern.ch>,
john.swain@cern.ch,
GERALDINE.SERVANT@cern.ch,
CEDRIC.DELAUNAY@cern.ch,
GIAN.GIUDICE@cern.ch,
CHRISTOPHE.GROJEAN@cern.ch,
GILAD.PEREZ@cern.ch,
JAMES.WELLS@cern.ch,
ANDREA.THAMM@cern.ch,
CHRISTIAN.THOMAS.BYRNES@cern.ch,
ANNE-MARIE.PERRIN@cern.ch,
Susanne Reffert <SUSANNE.REFFERT@cern.ch>,
JULIEN.LESGOURGUES@cern.ch,
HYUN.MIN.LEE@cern.ch,
GEORGE.ZOUPANOS@cern.ch,
James Gillies <James.Gillies@cern.ch>,
Georgi Dvali <GEORGI.DVALI@cern.ch>,
vsharma@physics.ucsd.edu,
Oliver Buchmueller <Oliver.Buchmueller@cern.ch>,
Joseph.Incandela@cern.ch,
Arnaud.Marsollier@cern.ch,
Renilde.Vanden.Broeck@cern.ch,
Joanna.Iwanska@cern.ch,
Press.Office@cern.ch,
Jean-Pierre Derendinger <derendinger@itp.unibe.ch>,
Michael Eichmair <michael.eichmair@math.ethz.ch>,
Wei-Tou Ni <weitou@gmail.com>,
Yongge Ma <mayg@bnu.edu.cn>,
Sijie Gao <sijie@bnu.edu.cn>,
Miao Li <limiao9@mail.sysu.edu.cn>,
huangp46@mail.sysu.edu.cn,
huangyue@itp.ac.cn,
linan@itp.ac.cn,
Ivo.van.Vulpen@nikhef.nl,
Eric.Laenen@nikhef.nl,
mulders@few.vu.nl,
rdb@ph.ed.ac.uk,
r.a.blythe@ed.ac.uk

P.S. For your convenience, I attach excerpts from p. 15 and from p. 25 in

http://www.god-does-not-play-dice.net/horizon.pdf

I'll be in London next month, perhaps we can discuss the family of
"Higgs bosons" over a glass of wine or five?

D.
--

On Mon, May 18, 2015 at 4:19 AM, Dimi Chakalov <dchakalov@gmail.com> wrote:
>
> Dear David,
>
> Regarding your pictorial explanation of "Higgs boson", see p. 25 in
>
> http://www.god-does-not-play-dice.net/horizon.pdf
> (May 18, 2015, 00:54 GMT)
>
> A penny for your thoughts.
>
> Dimi
>
>
>
> On Fri, May 8, 2015 at 12:39 AM, Dimi Chakalov <dchakalov@gmail.com> wrote:
>
> Dear Colleagues,
>
> I am totally against wasting taxpayers' money for "Higgs boson": see p. 17 in
>
> http://www.god-does-not-play-dice.net/horizon.pdf
>
> Please reply professionally.
>
> Sincerely,
>
> D. Chakalov
> --
> "The right side is a formal condensation of all things whose
> comprehension in the sense of a field-theory is still problematic. Not
> for a moment, of course, did I doubt that this formulation was merely
> a makeshift in order to give the general principle of relativity a
> preliminary closed expression. For it was essentially not anything
> more than a theory of the gravitational field, which was somewhat
> artificially isolated from a total field of as yet unknown structure."
>
> Albert Einstein, Philosopher-Scientist, ed. by Paul A. Schilpp, Tudor
> Publishing Company, New York, 1951, p. 75

==========

Subject: Large Hadron Collider fires up in a bid to shake up the Standard
 Model, Mar 13, 2015
Date: Mon, 18 May 2015 01:58:50 +0000
Message-ID: <CAM7EkxnmH94cDfvVAKuHeAb8vmXrvFKWctooqfSX_JrxrahYOA@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: tushna.commissariat@iop.org, louise.mayor@iop.org,
Hamish Johnston <hamish.johnston@iop.org>, pwld@iop.org,
Michael Banks <michael.banks@iop.org>, d.g.charlton@bham.ac.uk, Tiziano.Camporesi@cern.ch

Dear colleagues,

How about spin-2 Higgs-like boson? Check out p. 25 in

http://www.god-does-not-play-dice.net/horizon.pdf
(May 18, 2015, 00:54 GMT)

Sincerely,

D. Chakalov

==========

Subject: Red herring searches with Advanced LIGO and Advanced Virgo
Date: Tue, 19 May 2015 17:45:33 +0300
Message-ID: <CAM7EkxkGaoU3_Zuv6QDGk80GJ-RBQAFGD++L6e_sG0cfsEMb0Q@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Chris Van Den Broeck <vdbroeck@nikhef.nl>
Cc: Kip <kip@tapir.caltech.edu>,
Malcolm MacCallum <m.a.h.maccallum@qmul.ac.uk>,
Jorge Pullin <pullin@lsu.edu>,
Bernard Schutz <Bernard.Schutz@aei.mpg.de>,
Ulrich Sperhake <sperhake@tapir.caltech.edu>,
Daniel Kennefick <danielk@uark.edu>,
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Warren Johnson <johnson@ligo.phys.lsu.edu>,
Gabriela González <gonzalez@lsu.edu>,
Alessandra Buonanno <buonanno@physics.umd.edu>,
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Jean-Pierre Derendinger <derendinger@itp.unibe.ch>,
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Giuseppe Vitiello <vitiello@sa.infn.it>,
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Stuart Reid <stuart.reid.2@glasgow.ac.uk>,
James Hough <james.hough@glasgow.ac.uk>,
B. S. Sathyaprakash <B.Sathyaprakash@astro.cf.ac.uk>,
Stefan Krückeberg <Stefan.Krueckeberg@dfg.de>,
Cliff <cmw@wuphys.wustl.edu>,
Stephen Merkowitz <stephen.m.merkowitz@nasa.gov>,
Meredith Gibb <meredith.gibb@nasa.gov>,
Karen Smale <karen.m.smale@nasa.gov>,
Shau-Yun.Tsai-1@nasa.gov,
andreluiz.s.luz@nasa.gov,
OIG <oig@nsf.gov>,
Counsel to the Inspector General <HQ-OIG-Counsel@mail.nasa.gov>,
moderation@arxiv.org,
djb67@cornell.edu,
kst32@cornell.edu,
fhr2@cornell.edu,
Charles Walcott <cw38@cornell.edu>,
Hans-Jürgen Schmidt <hjschmi@rz.uni-potsdam.de>

Chris Van Den Broeck, arXiv:1505.04621v1 [gr-qc], p. 6: "With the construction of Advanced LIGO and Advanced Virgo well underway, we can look forward to the first direct detections of gravitational waves in the next several years."

Forget it, Chris. You and your LIGO and VIRGO colleagues are deliberately ignoring the facts known since 1944, after Hermann Weyl.

Check out pp. 25-27 in
http://www.god-does-not-play-dice.net/censorship.pdf

More on p. 9 in
http://www.god-does-not-play-dice.net/horizon.pdf

There's no sense to play Feldwebel Schultz: "I hear nothing, I see nothing, I know nothing!"

I extend this gentle suggestion to all your colleagues.

D. Chakalov

====

For the record: Twelve years ago, on Thursday, 20 February 2003, I asked
Hans-Jürgen Schmidt a very simple question (Thu, 20 Feb 2003 12:05:02 +0200):

"Isn't it true that the *necessary* condition for detecting gravitational
waves is that the distribution of energy-momentum of a physical system in
the gravitational field must be uniquely defined on a continual trajectory,
not just in one instant of measurement?"

Of course, Hans-Jürgen Schmidt never replied. Point is, if the Advanced LIGO
and Advanced Virgo detect gravitational waves, they will prove that the
gravitational energy can indeed be "uniquely defined on a continual trajectory,
not just in one instant of measurement" (MTW, p. 467), and pigs will fly.

Details on pp. 24-25 in
http://www.god-does-not-play-dice.net/censorship.pdf

D. Chakalov
May 20, 2015, 15:06 GMT

==========

Subject: Barry Holstein et al., The Equivalence Principle in a Quantum World,
arXiv:1505.04974v1 [hep-th], p. 2: "These are questions that make your head hurt!"
Date: Wed, 20 May 2015 03:38:52 +0000
Message-ID: <CAM7Ekxm8ydO1VXNYBTcc=FDs1V8WiGosxUho6ayfhZFwpE4bJA@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Barry Holstein <holstein@physics.umass.edu>, bjbohr@nbi.dk,
John Donoghue <donoghue@physics.umass.edu>, bmahmoud@physics.umass.edu,
ludovic.plante@cea.fr, pierre.vanhove@cea.fr
Cc: Magdalena Zych <magdalena.zych@univie.ac.at>,
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iqoqi-ibk@oeaw.ac.at, Anton <anton.zeilinger@univie.ac.at>,
gabriela.barreto.lemos@univie.ac.at, xiaosong.ma@univie.ac.at,
rupert.ursin@oeaw.ac.at, Jose Geraldo Pereira <jpereira@ift.unesp.br>,
Domenico Giulini <domenico.giulini@itp.uni-hannover.de>,
Claus Kiefer <kiefer@thp.uni-koeln.de>, Zeh <zeh@uni-heidelberg.de>,
Anthony Lasenby <a.n.lasenby@mrao.cam.ac.uk>, Sergiu Klainerman <seri@math.princeton.edu>,
Sergio Doplicher <dopliche@mat.uniroma1.it>, Ronald J Adler <gyroron@gmail.com>,
Karel V Kuchar <kuchar@physics.utah.edu>, Chris Isham <c.isham@imperial.ac.uk>,
Stanley Deser <deser@brandeis.edu>, Jeffrey Winicour <winicour@pitt.edu>,
Greg Galloway <galloway@math.miami.edu>, Paul Tod <tod@maths.ox.ac.uk>, A.C.Davis@damtp.cam.ac.uk,
Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>,
Benjamin Allanach <B.C.Allanach@damtp.cam.ac.uk>, N.Dorey@damtp.cam.ac.uk,
M.B.Green@damtp.cam.ac.uk, Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>,
D.Tong@damtp.cam.ac.uk, Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>,
E.P.Shellard@damtp.cam.ac.uk, David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>,
John Stewart <j.m.stewart@damtp.cam.ac.uk>, John Barrow <J.D.Barrow@damtp.cam.ac.uk>

The Equivalence Principle allows a locally flat coordinate system?
Manifestation of a curved spacetime? Infinitesimal local region? Pink
elephants dancing with red herrings?

Surely the current version of Quantum Mechanics "is not local enough
to describe motion by a single trajectory in spacetime" (p. 4), which
is why we need quantum gravity: check out the note on pp. 24-25 in

http://www.god-does-not-play-dice.net/horizon.pdf

If you disagree, try to solve *the* most widely known public secret in
theoretical physics:

http://www.god-does-not-play-dice.net/Fig_8.jpg

Good luck.

D. Chakalov

==========

Subject: SS 2010, WS 2011/12, WS 2014-15, and SS 2015
Date: Tue, 26 May 2015 15:01:18 +0000
Message-ID: <CAM7Ekx=n0JJoUMTHMVePBj3DxonEwoLO9G9KzVrd1KZr29MYBQ@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Domenico Giulini <giulini@itp.uni-hannover.de>
Cc: Claus Kiefer <kiefer@thp.uni-koeln.de>,
Friedrich W Hehl <hehl@thp.uni-koeln.de>,
Barbara Sandhöfer <bs12@princeton.edu>,
nikolic@thp.uni-koeln.de,
boos@thp.uni-koeln.de,
adehghan@thp.uni-koeln.de,
pdhole@thp.uni-koeln.de,
pjw@thp.uni-koeln.de,
fasse@thp.uni-koeln.de,
onody@thp.uni-koeln.de,
nk@thp.uni-koeln.de

Domenico,

Do you teach "Theorie der Gravitationswellen", "Theorie der schwarzen Löcher", "Differentialgeometrische Strukturen auf Raumzeiten und Singularitätentheorie", and "Die kanonische Formulierung der Allgemeinen Relativitätstheorie"?

The latter is scheduled for Summer 2015, and I trust you will never deliberately mislead your students: check out the facts in

http://www.god-does-not-play-dice.net/horizon.pdf

After all, students are kids, they trust you, and you must *never* deliberately mislead them. It's not fair, oder ?

I extend this question to Prof. Dr. C. Kiefer and his colleagues as well.

MfG - D.C.

==========

Subject: R. Geroch (1968), What is a singularity in General Relativity?
Date: Tue, 26 May 2015 12:09:35 +0000
Message-ID: <CAM7EkxkpFcYQ0p64V9o2SJujAUBsZumBVwuJnk401krNR3iEYg@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Robert Geroch <geroch@midway.uchicago.edu>,
Robert M Wald <rmwa@midway.uchicago.edu>,
Jörg Frauendiener <joergf@maths.otago.ac.nz>,
Adam Helfer <helfera@missouri.edu>,
Laszlo Szabados <lbszab@rmki.kfki.hu>,
Xiao Zhang <xzhang@amss.ac.cn>,
Richard M Schoen <schoen@math.stanford.edu>,
Niall Ó Murchadha <niall@ucc.ie>,
Shing-Tung Yau <yau@math.harvard.edu>,
Lau Loi So <s0242010@gmail.com>,
Steven Weinberg <weinberg@physics.utexas.edu>,
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Mu-Tao Wang <mtwang@math.columbia.edu>,
Wei-Tou Ni <weitou@gmail.com>,
Kip <kip@tapir.caltech.edu>,

Eduardo Guendelman <guendel@bgumail.bgu.ac.il>,
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Jose M M Senovilla <josemm.senovilla@ehu.es>,
Chris Isham <c.isham@imperial.ac.uk>,
Vincent Moncrief <vincent.moncrief@yale.edu>,
Thibault Damour <damour@ihes.fr>,
Mihalis <dafermos@princeton.edu>,
Alan Rendall <rendall@aei.mpg.de>,
Helmut Friedrich <hef@aei.mpg.de>,
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Paul Tod <tod@maths.ox.ac.uk>,
Ezra Newman <newman@pitt.edu>,
Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>,
Robert Beig <robert.beig@univie.ac.at>,
Demetrios Christodoulou <demetri@math.ethz.ch>,
Sergiu Klainerman <seri@math.princeton.edu>,
Stanley Deser <deser@brandeis.edu>,
Florian Beyer <fbeyer@maths.otago.ac.nz>,
Ettore Minguzzi <ettore.minguzzi@unifi.it>,
Gary W Gibbons <G.W.Gibbons@damtp.cam.ac.uk>,
Joseph Katz <jkatz@phys.huji.ac.il>,
Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>,
Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>,
Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>,
David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>,
John Stewart <j.m.stewart@damtp.cam.ac.uk>,
John Barrow <J.D.Barrow@damtp.cam.ac.uk>,
Jonathan Thornburg <jthorn@astro.indiana.edu>,
Jeffrey Winicour <winicour@pitt.edu>,
Greg Galloway <galloway@math.miami.edu>,
Richard Woodard <woodard@phys.ufl.edu>,
Bernard J Carr <b.j.carr@qmul.ac.uk>,
Ravindra Saraykar <ravindra.saraykar@gmail.com>,
Domenico Giulini <giulini@itp.uni-hannover.de>,
Claus Kiefer <kiefer@thp.uni-koeln.de>,
Claus Gerhardt <gerhardt@math.uni-heidelberg.de>,
John Friedman <friedman@uwm.edu>,
Roger Penrose <rouse@maths.ox.ac.uk>

http://www.god-does-not-play-dice.net/Geroch_p526.jpg

Father Christmas' beard -- check out p. 25 in

http://www.god-does-not-play-dice.net/horizon.pdf
(May 26, 2015, 09:14 GMT)

D.C.

How do we know that Father Christmas has a beard? We know it, because
snow falls when he shakes his beard.

Old Tanzanian saying

==========

Subject: God as mathematical object at "infinity" (sit venia verbo)
Date: Tue, 26 May 2015 17:14:39 +0000
Message-ID: <CAM7Ekx=tgC=hW4ZztQz_Re1ibw2VB2kcg9XB9ykLyJJGTv2NFw@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Robert John Russell <director@ctns.org>
Cc: Harvey M Friedman <hmflogic@gmail.com>,
Edward Nelson <nelson@math.princeton.edu>,
W Hugh Woodin <wwoodin@fas.harvard.edu>,
Enrico Bombieri <eb@math.ias.edu>,
Wolfgang Achtner <info@wolfgangachtner.de>,
info@transscientia.de,
info@metanexus.net,
president@esssat.eu,

cfp@esssat.eu,
Templeton Foundation <info@templeton.org>,
Michal Heller <info@copernicuscenter.edu.pl>,
Albrecht von Müller <Albrecht.von.Mueller@parmenides-foundation.org>,
carsten.freitaeger@parmenides-foundation.org,
ernst.poeppel@med.uni-muenchen.de,
vona@math.lmu.de,
ezafiris@math.uoa.gr,
Dieter Kotschick <dieter@mathematik.uni-muenchen.de>

Bob:

We met at the Conference on Science and Theology (ECST V), March 23-27, 1994, in Freising near Munich. I helped you carry your heavy suitcase, remember? I guess this was my only positive contribution, as nobody paid any attention to my talk nor asked any specific questions.

Now I think the situation is a bit different: check out pp. 24-25 in

http://www.god-does-not-play-dice.net/horizon.pdf
(May 26, 2015, 09:14 GMT)

We have The Gospel; all we need is Mathematics.

All the best,

Dimi

D. Chakalov
chakalov.net

==========

Subject: Request for permission
Date: Mon, 25 May 2015 10:59:49 +0000
Message-ID: <CAM7EkxkGAy0xMbnUwANxdpinKBw6kJx2Ot5dRPjL0Q-twTQ_9A@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Fictional Character <artofmagicagent@gmail.com>

Dear Sir,

I would like to ask for permission to include a short excerpt from your clip "Lightspeed Teleportations" in my forthcoming video "Spacetime Engineering?", which will also be available at YouTube for free.

The excerpt (33,131,814 bytes) can be downloaded from
http://www.god-does-not-play-dice.net/Translocation.mp4

It is from your "Lightspeed Teleportations" from December 3, 2012,
https://www.youtube.com/watch?v=h-R_UjP9vzw

Needless to say, I will give you the credit and provide the link to your full video clip.

Please keep in mind that the operational definition of 'magic' is 'something we can say nothing about', while spacetime engineering is not "magic". It is known in your country for centuries.

Yours sincerely,

Dimi Chakalov
chakalov.net

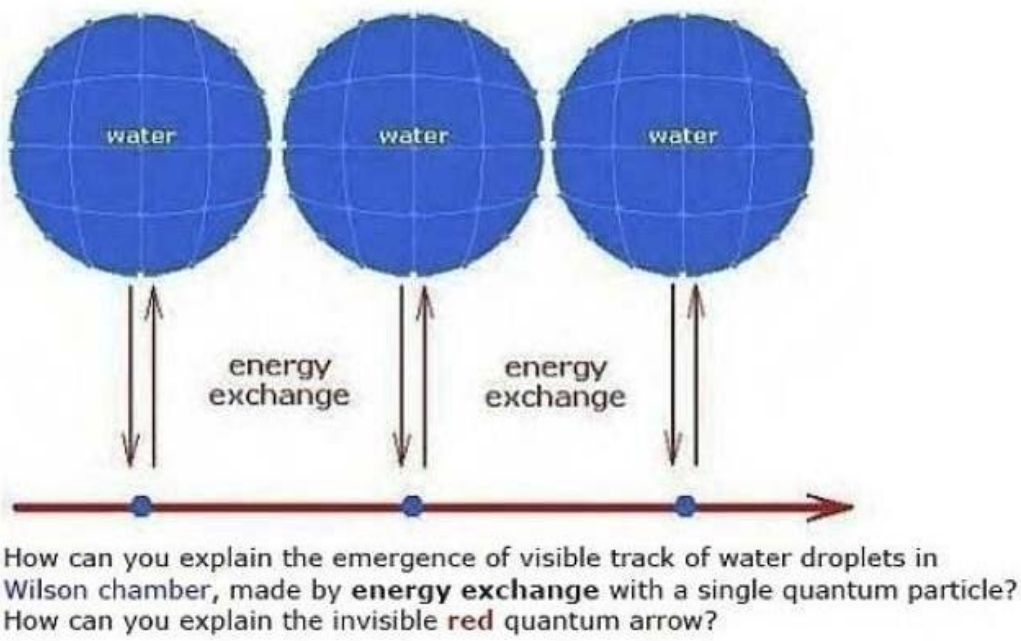
Note: Compare Translocation.mp4 (cf. the link above) with '*the* most widely known public secret in theoretical physics' on p. 8 in

http://www.god-does-not-play-dice.net/horizon.pdf

It is Fig. 8 in 'Relative Scale Spacetime', viXra:1410.0194v6,

http://www.god-does-not-play-dice.net/Fig_8.jpg

To obtain a quantum description of a gravitational system, you must start with a quantum description of a quantum system. The task is known since 1911:



Notice that Fig. 8 above shows two translocations marked with small **blue** dots from the **red** quantum arrow, while in Translocation.mp4 you will see only one, involving a black metal ring.

This is not "magic" but spacetime engineering: see pp. 4-5 and p. 8 in sheeple.pdf. Details upon request.

D. Chakalov
May 26, 2015
Last updated: May 28, 2015, 00:40 GMT

==========

Subject: Re: Focus Program on 100 Years of General Relativity
Date: Fri, 29 May 2015 12:17:52 +0000
Message-ID: <CAM7Ekx=kcknTsW+28jdQd0+-wMWV19gLmxbsFn2_GkHz42gY_g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Ian Hambleton <hambleton@mcmaster.ca>,
jgardner@fields.utoronto.ca,
proposals@fields.utoronto.ca,

Fields Programs <programs@fields.utoronto.ca>,
deputydirector@fields.utoronto.ca,
director@fields.utoronto.ca,
qfan@fields.utoronto.ca,
mmackey@fields.utoronto.ca,
swatt@fields.utoronto.ca,
cmm@fields.utoronto.ca,
frances.skinner@utoronto.ca,
alexakis@math.utoronto.ca,
jluk@dpmms.cam.ac.uk,
Harald Pfeiffer <pfeiffer@cita.utoronto.ca>,
Luis Lehner <llehner@perimeterinstitute.ca>,
Eric Poisson <poisson@physics.uoguelph.ca>

P.S. Please note that the task explained at the link from my preceding email (printed below) concerns the foundations of Mathematics: point-set topology, set theory, and number theory. I will be happy to provide specific mathematical details.

D.C.

On Thu, 28 May 2015 12:55:26 +0300, Dimi Chakalov <dchakalov@gmail.com> wrote:
>
> Dear Colleagues,
>
> Please check out pp. 24-27 in
> http://www.god-does-not-play-dice.net/horizon.pdf
>
> The task is strictly mathematical.
>
> Yours sincerely,
>
> Dimi Chakalov
> chakalov.net
>

==========

Subject: Physical theology ?
Date: Tue, 2 Jun 2015 01:56:33 +0000
Message-ID: <CAM7Ekx=c7B4DMp+1RLKMTUAtObzXo=XkmLnr+p8cxJRJPrs99g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Angelica Osorno <aosorno@reed.edu>,
Mona Merling <mmerling@math.jhu.edu>,
Peter May <may@math.uchicago.edu>,
Kazuya Kato <kkato@math.uchicago.edu>,
Danny Calegari <dannyc@math.uchicago.edu>,
Todd Dupont <t-dupont@uchicago.edu>,
Denis Hirschfeldt <drh@math.uchicago.edu>,
Lars Hesselholt <larsh@math.mit.edu>,
Bert Guillou <bertguillou@uky.edu>,
Chandrashekhar Khare <shekhar@math.ucla.edu>,
Davide Reduzzi <reduzzi@math.uchicago.edu>,
John Hunter <jkhunter@ucdavis.edu>

Dear colleagues,

Perhaps you may be interested to see pp. 24-28 in
http://www.god-does-not-play-dice.net/horizon.pdf

I believe the unsolved mathematical problems, explained in the text at the link above, are from 18th century.

Your professional feedback will be appreciated.

Kind regards,

Dimi Chakalov
chakalov.net

==========

Subject: Re: Physical theology ?
Date: Tue, 2 Jun 2015 11:10:03 +0000
Message-ID: <CAM7Ekx=wKg9mSVWV+cAqKqVyQppz4BQgDwFRQbYe+dB1CCc--g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Jeanne <jeanne.mallet@wanadoo.fr>
Cc: Ian Hambleton <hambleton@mcmaster.ca>,
jgardner@fields.utoronto.ca,
proposals@fields.utoronto.ca,
Fields Programs <programs@fields.utoronto.ca>,
deputydirector@fields.utoronto.ca,
director@fields.utoronto.ca,
qfan@fields.utoronto.ca,
mmackey@fields.utoronto.ca,
swatt@fields.utoronto.ca,
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frances.skinner@utoronto.ca,
alexakis@math.utoronto.ca,
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Harald Pfeiffer <pfeiffer@cita.utoronto.ca>,
Luis Lehner <llehner@perimeterinstitute.ca>,
Eric Poisson <poisson@physics.uoguelph.ca>,
Angelica Osorno <aosorno@reed.edu>,
Mona Merling <mmerling@math.jhu.edu>,
Peter May <may@math.uchicago.edu>,
Kazuya Kato <kkato@math.uchicago.edu>,
Danny Calegari <dannyc@math.uchicago.edu>,
Todd Dupont <t-dupont@uchicago.edu>,
Denis Hirschfeldt <drh@math.uchicago.edu>,
Lars Hesselholt <larsh@math.mit.edu>,
Bert Guillou <bertguillou@uky.edu>,
Chandrashekhar Khare <shekhar@math.ucla.edu>,
Davide Reduzzi <reduzzi@math.uchicago.edu>,
John Hunter <jkhunter@ucdavis.edu>,
Harvey M Friedman <hmflogic@gmail.com>,
Edward Nelson <nelson@math.princeton.edu>,
W Hugh Woodin <wwoodin@fas.harvard.edu>,
Enrico Bombieri <eb@math.ias.edu>,
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info@transscientia.de,
info@metanexus.net,
president@esssat.eu,
cfp@esssat.eu,
Templeton Foundation <info@templeton.org>,
Michal Heller <info@copernicuscenter.edu.pl>,
Albrecht von Müller <Albrecht.von.Mueller@parmenides-foundation.org>,
carsten.freitaeger@parmenides-foundation.org,
ernst.poeppel@med.uni-muenchen.de,
vona@math.lmu.de,
ezafiris@math.uoa.gr,
Dieter Kotschick <dieter@mathematik.uni-muenchen.de>,
Karel Hrbacek <khrbacek@nyc.rr.com>,
[snip]

Chere Jeanne,

> Pensez vous qu'avec plus de bonnes mathématiques nous entretuerons
> moins?

I don't know what you mean by "bonnes mathématiques". Fact is, people are only scratching the tip of the iceberg, and call it "magic":

http://www.god-does-not-play-dice.net/Translocation.mp4

The operational definition of 'magic' is 'something we can say nothing about', while spacetime engineering is not "magic".

> Peut être en découvrant/comprenant nos interactions avec la réalité
> potentielle?

At this moment, I don't know the answer. The first off task is to
solve the long-standing problems of point-set topology, set theory,
and number theory (see the link below). Erwin Schrödinger and Werner
Heisenberg have formulated the task decades ago, only the Mathematics
is still missing.

Do you know some mathematician interested in the foundations of Mathematics?

I extend this question to all people in the Cc: list.

Cordialement,

Dimi

> Dear Jeanne,
>>
>> Thank you for your interest in my efforts. If you are interested in
>> physical theology, please see pp. 24-28 in
>> http://www.god-does-not-play-dice.net/horizon.pdf
>>
>> We have The Gospel; all we need is Mathematics.
>>
>> Best wishes,
>>
>> Dîmî :-)
>>

==========

Subject: C. Rovelli, arXiv:1506.00927v1 [gr-qc], "that damn equation", Bryce DeWitt
Date: Wed, 3 Jun 2015 11:28:07 +0300
Message-ID: <CAM7EkxmryK=gAaQH76zLC-+bGKcfjMVxzPRwP9PnEJYSHPO2HQ@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: carlo rovelli <rovelli.carlo@gmail.com>, carlo rovelli <rovelli@cpt.univ-mrs.fr>
Cc: Andreas <andreas.doering@comlab.ox.ac.uk>, Cecilia Flori <cflori@perimeterinstitute.ca>, Dorje Brody <d.brody@imperial.ac.uk>, Paul Davies <deepthought@asu.edu>, David <da5@columbia.edu>, Huw Price <hp331@cam.ac.uk>, Robert Geroch <geroch@midway.uchicago.edu>, Robert M Wald <rmwa@midway.uchicago.edu>, Jörg Frauendiener <joergf@maths.otago.ac.nz>, Adam Helfer <helfera@missouri.edu>, Laszlo Szabados <lbszab@rmki.kfki.hu>, Xiao Zhang <xzhang@amss.ac.cn>, Richard M Schoen <schoen@math.stanford.edu>, Niall Ó Murchadha <niall@ucc.ie>, Shing-Tung Yau <yau@math.harvard.edu>, Lau Loi So <s0242010@gmail.com>, Steven Weinberg <weinberg@physics.utexas.edu>, Josh Goldberg <goldberg@phy.syr.edu>, Jose Geraldo Pereira <jpereira@ift.unesp.br>, Mu-Tao Wang <mtwang@math.columbia.edu>, Wei-Tou Ni <weitou@gmail.com>, Kip <kip@tapir.caltech.edu>, Eduardo Guendelman <guendel@bgumail.bgu.ac.il>, Jim Isenberg <isenberg@uoregon.edu>, Jose M M Senovilla <josemm.senovilla@ehu.es>, Chris Isham <c.isham@imperial.ac.uk>, Vincent Moncrief <vincent.moncrief@yale.edu>, Thibault Damour <damour@ihes.fr>, Mihalis <dafermos@princeton.edu>, Alan Rendall <rendall@aei.mpg.de>, Helmut Friedrich <hef@aei.mpg.de>, Lars Andersson <laan@aei.mpg.de>, Paul Tod <tod@maths.ox.ac.uk>, Ezra Newman <newman@pitt.edu>, Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>, Robert Beig <robert.beig@univie.ac.at>, Demetrios Christodoulou <demetri@math.ethz.ch>, Sergiu Klainerman <seri@math.princeton.edu>, Stanley Deser <deser@brandeis.edu>, Florian Beyer <fbeyer@maths.otago.ac.nz>, Ettore Minguzzi <ettore.minguzzi@unifi.it>, Gary W Gibbons <G.W.Gibbons@damtp.cam.ac.uk>, Joseph Katz <jkatz@phys.huji.ac.il>, Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>, Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>, Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>, David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>, John Stewart <j.m.stewart@damtp.cam.ac.uk>, John Barrow <J.D.Barrow@damtp.cam.ac.uk>, Jonathan Thornburg <jthorn@astro.indiana.edu>, Jeffrey Winicour <winicour@pitt.edu>, Greg Galloway <galloway@math.miami.edu>, Richard Woodard <woodard@phys.ufl.edu>, Bernard J Carr <b.j.carr@qmul.ac.uk>, Ravindra Saraykar <ravindra.saraykar@gmail.com>, Domenico Giulini <giulini@itp.uni-hannover.de>, Claus Kiefer <kiefer@thp.uni-koeln.de>, Claus Gerhardt <gerhardt@math.uni-heidelberg.de>, John Friedman <friedman@uwm.edu>, Roger Penrose <rouse@maths.ox.ac.uk>, Harald Pfeiffer <pfeiffer@cita.utoronto.ca>, Luis Lehner <llehner@perimeterinstitute.ca>, Eric Poisson <poisson@physics.uoguelph.ca>, Roger Penrose <rouse@maths.ox.ac.uk>, Harald Pfeiffer <pfeiffer@cita.utoronto.ca>, Luis Lehner <llehner@perimeterinstitute.ca>, Eric Poisson <poisson@physics.uoguelph.ca>, Karel V Kuchar <kuchar@physics.utah.edu>, Norbert Straumann <norbert.straumann@gmail.com>

C. Rovelli: "strictly speaking, there is no equation".

Agree. Now try to suggest a Schrödinger-like equation for 'the most widely known public secret in
theoretical physics' (attached),

http://www.god-does-not-play-dice.net/Fig_8_small.jpg

No time variable in such Schrödinger-like equation can be postulated either.

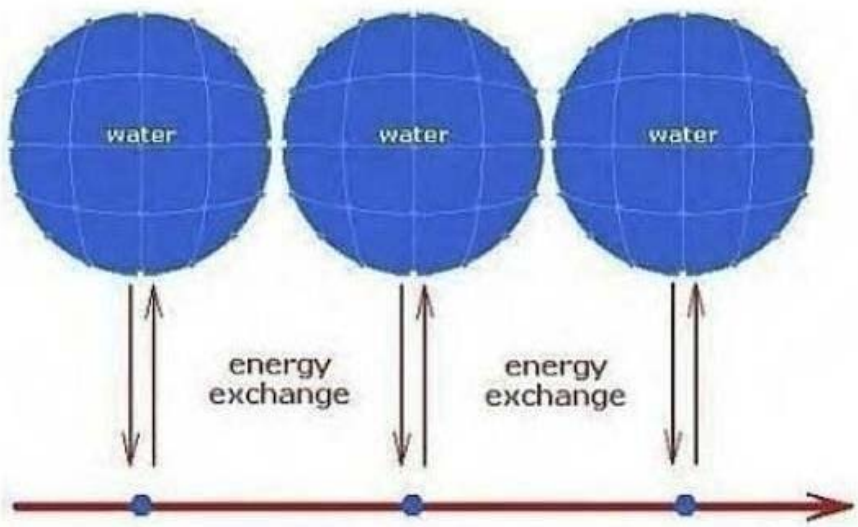
The so-called "common strategy in quantum cosmology", used to suggest some values of [phi] that can be taken as a “clock” to coordinatize "trajectories of the system" (p. 3), is a joke. Read Karel Kuchar and try to think. It really helps.

More in pp. 24-28,
http://www.god-does-not-play-dice.net/horizon.pdf

D. Chakalov
chakalov.net

Attachment:

To obtain a quantum description of a gravitational system, you must start with a quantum description of a quantum system. The task is known since 1911:



How can you explain the emergence of visible track of water droplets in Wilson chamber, made by **energy exchange** with a single quantum particle? How can you explain the invisible red quantum arrow?

Hint: You cannot define a Schrödinger-like equation for 'the most widely known public secret in theoretical physics' above. It cannot be *linear*, i.e., the sum of two solutions to be also a solution. As to "that damn equation" (Bryce DeWitt), notice that it cannot present the *global* time of the entire universe (denoted with **t** in the Schrödinger equation) as 'physical observable', and will only show a frozen static "frame" from it: see the note on the dynamics of General Relativity on pp. 24-28 at the link above.

D. Chakalov
June 3, 2015, 12:26 GMT

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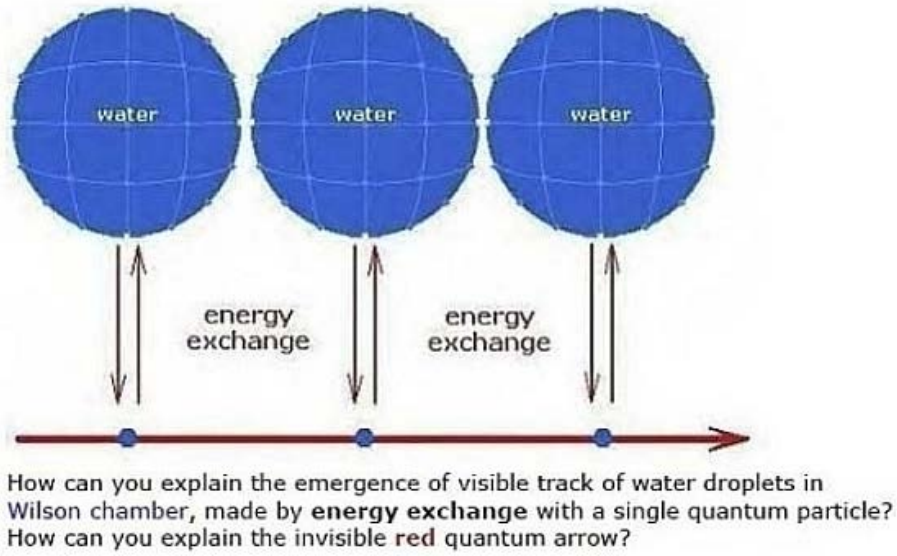

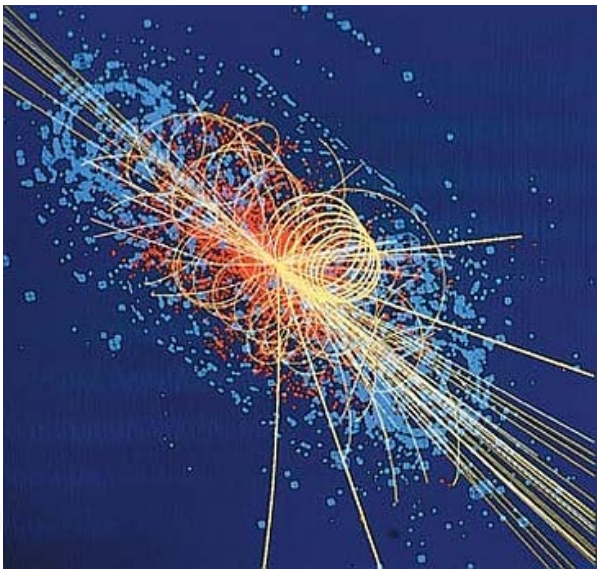

Subject: LHC experiments back in business at record energy, 3 June 2015
Date: Thu, 4 Jun 2015 03:38:09 +0300
Message-ID: <CAM7Ekx=0Gpigo36mA3fZOUfn2unD1t95Q7tOjgXJ833Jw0Pd7g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: David Charlton <d.g.charlton@bham.ac.uk>
Cc: JOACHIM.MNICH@desy.de, LOHSE@physik.hu-berlin.de, KATSAN@admin.in2p3.fr,
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Dear Dr. Charlton,

I just saw your PR statement on Euronews, and would like to set the record straight.

To quote from your website, "more than 3000 scientists from 174 institutes in 38 countries work on the ATLAS experiment", yet nobody has acknowledged the most widely known, ever since 1911, public secret in theoretical physics:

http://www.god-does-not-play-dice.net/Fig_8_small.jpg

You do not have any theory to help you with your "mission", as you proclaimed on Euronews.

Check out 'the proof of the (Higgs) pudding' (attached), from

http://www.god-does-not-play-dice.net/horizon.pdf

Please don't reply by email. Do your homework and report your 'proof of the (Higgs) pudding' at arXiv.org. I'll take it from there.

Sincerely,

Dimi Chakalov

3 Attachments:
http://www.god-does-not-play-dice.net/CERN_p17.jpg

Yet all people, including the academic scholars above, deeply believe that CERN has discovered some "god particle" by smashing protons: "The Standard Model does not predict the mass of the Higgs boson itself and therefore it must be measured experimentally" (CERN, 17 March 2015). English translation: 'We have no theory to predict the mass of the Higgs boson itself and therefore it might be guessed only with experiments based on wishful thinking or with crystal balls, whichever comes first'.

If people from CERN disagree, they have to demonstrate some sort of "effective theory" by **recovering** the proton's **mass** 'bottom—up', based on their experimental results: "The combined mass of the Higgs boson is m_H = 125.09 ± 0.24 (0.21 stat. ± 0.11 syst.) GeV, which corresponds to a measurement precision of better than 0.2%."

Again, CERN smashed protons to "discover" the Higgs boson mass, so if they have *any* theory whatsoever, they should at least be able to **recover** proton's **mass** (cf. Particle masses, MJBridger, April 9, 2015).

That's the proof of the (Higgs) pudding. Of course, their first off task is to solve *the* most widely known public secret in theoretical physics, ever since 1911.

The total cost of "finding" the Higgs boson ran about $13.25 billion (€11.83 billion), so obviously the academic scholars at CERN have humongous amount of money — all taxpayers' money — to play with their Higgs parapsychology. They already dream of a new Barbie, seven times as powerful and several times bigger than the LHC, "with a circumference of 80 to 100 kilometres": the Future Circular Collider. Their enormous paychecks are guarantied, along with their medical benefits and pensions, so why would they bother to *think*?

They have all they want: **money**. **Billions** of taxpayers' euros.

BILLIONS.

As Johann Makowsky put it (*The Jerusalem Pos*t, 19 April 1985), "Overfunded research is like heroin: It makes one addicted, weakens the mind and furthers prostitution."

D. Chakalov
May 3, 2015
Last updated: May 20, 2015, 13:36 GMT

http://www.god-does-not-play-dice.net/CERN_p28.jpg

As to the so-called Higgs boson**s** (the Brout-Englert-Higgs mechanism), be aware that the Higgs recipe is suggested by *ignoring* gravity in the quantum world -- people still cannot include gravity in their "standard model", and could only *believe* that the nonrenormalizable spin-2 "graviton" might be the "force-carrying particle of gravity" (CERN). Once we include gravity as quantum-gravitational *potential* reality, its vacuum (see 'the colorless octopus *per se*' in REIM) **can and must** explicate a brand new family of *physicalized* ("colored") Higgs-like bosons, with both spin-0 and **spin-2**. The latter cannot be some "graviton", of course. It will **not** break the Lorentz invariance either, even if some day Higgs' decay exhibits a *preferred* direction (cf. Oliver Buchmueller).

http://www.god-does-not-play-dice.net/CERN_p28_end.jpg

To sum up, let me repeat my prediction from January 9, 2003: I bet $100 that the Higgs will not be discovered. Instead, the number of quarks will jump to 8 and more, in a Fibonacci sequence (Thursday, January 9, 2003, 15:56:04 GMT). More in 'the test of the (Higgs) pudding' above.

==========

Subject: The origin of gravity: Mach's Principle & Einstein's G-field
Date: Thu, 4 Jun 2015 15:53:07 +0300

Message-ID: <CAM7Ekx=0jkb59vxTkaoqzzWdtKFMpKD9N2CHy6g=0EXCZWLZ4Q@mail.gmail.com>
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Hans Ohanian <hohanian@uvm.edu>, Carlos Kozameh <kozameh@famaf.unc.edu.ar>,
[snip]

Mach's Principle & Einstein's G-field:

http://www.god-does-not-play-dice.net/Mach_Einstein.jpg

http://www.god-does-not-play-dice.net/rotating_reference_frame.jpg

Explanation on p. 28 in

http://www.god-does-not-play-dice.net/horizon.pdf
(June 4, 2015, 12:00 GMT)

More on pp. 17-18 in
http://www.god-does-not-play-dice.net/note.pdf

D. Chakalov
chakalov.net

==========

Subject: Sanjay Sarma, Rotating Frames of Reference, MIT OpenCourseWare
Date: Fri, 5 Jun 2015 15:21:43 +0300
Message-ID: <CAM7Ekx=X9d8CQunrsMX5EEWVPbNZB-paqxc6bqh17K7p69tK3g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Sanjay E Sarma <sesarma@mit.edu>
Cc: David Wittman <wittman@physics.ucdavis.edu>,
Craig Copi <cjc5@po.cwru.edu>,
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Charles Torre <torre@cc.usu.edu>

Dear Dr. Sarma:

Thank you very much for your very valuable web lecture 'Rotating Frames of Reference' at
https://www.youtube.com/watch?v=IOcrHOc23N4

I mentioned it in
http://www.god-does-not-play-dice.net/rotating_reference_frame.jpg

See also an excerpt (attached) from p. 28 in
http://www.god-does-not-play-dice.net/horizon.pdf

Just replace the background (Earth) in your video lecture with 'potential reality', and you will obtain the manifestations of gravity, without "curvature" nor any "dark" stuff whatsoever.

All the best,

Dimi Chakalov
chakalov.net

Attachment:

gravity is indissolubly linked to **rotation** as *topological* property of spacetime, from elementary particles (spin, H. Ohanian) to the large-scale universe (Craig J. Copi *et al*., p. 15), and we can revive Mach's principle with respect to the *physically* unobservable 'rotating reference frame' viz. Einstein's **G**-field.

Note: Twelve years ago, Mário Everaldo de Souza suggested that "the Universe itself should always have an angular momentum" (M. de Souza, private communication, Wed, 12 Mar 2003 18:15:17 -0300). Just like with the "rotation" in the quantum world, known as *spin* (Wolfgang Pauli described it as *eine eigentümliche, klassisch nicht beschreibbare Art von Zweideutigkeit*; see also Hans Ohanian), we encounter a fundamental phenomenon: "**rotating**" potential reality. It does **not** exist as 'background', like the physical G-frame in Sanjay Sarma's lecture Rotating Frames of Reference.

At length scales larger than the size of our solar system, this *topological* phenomenon will show **two** opposite, tug-of-war *components* of gravity. If interpreted as 'physical reality in the **past**', they would lead to Russian poetry: non-baryonic "cold dark matter" and "dark energy" of [the grin of the Cheshire cat *without* the cat].

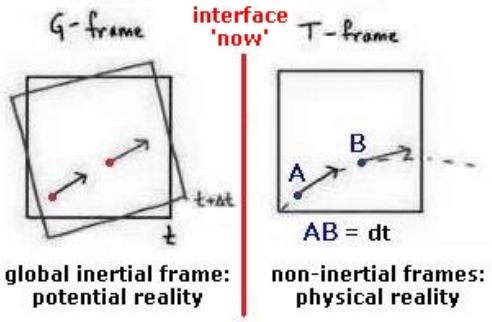
In 2011, three people were awarded Nobel Prize for the discovery of "accelerating expansion" of the *physicalized* explication of the Universe, yet nobody mentioned the discovery of Prof. Vera Rubin. Nobody paid attention to John Bell either (emphasis mine):

John Bell The reason I want to go back to the idea of an aether here is because in these EPR experiments there is the suggestion that behind the scenes something is going faster than light. Now, if all Lorentz frames are equivalent, that also means that things can go backward in time.

It introduces great problems, paradoxes of causality and so on. And so it's precisely to avoid these that I want to say there is a real causal sequence which is defined in the aether. Now the mystery is, as with Lorentz and Poincaré, that this aether does not show up at the observational level.

John Bell, in: The Ghost in the Atom: A Discussion of the Mysteries of Quantum Physics, ed. by Paul Davies and Julian Brown, Cambridge University Press, 1986, pp. 49-50.

Nobody showed any interest in the explanation of the *origin* of gravity: "**rotating**" potential reality. The global inertial frame of the "carousel" and global free-falling reference frame do not and *must not* show up at the observational level either. Notice that the torsion is *perfectly* (due to the "speed" of light) **hidden**]between["the infinitesimal displacement of vectors" (A. Einstein) as well (within **AB** = **dt**, see below), otherwise it will expose the "carousel" (the **G**-frame below) as *physical* rotation in the non-inertial **T**-frames.



Adopted from Sanjay Sarma, Rotating Frames of Reference; the interface **'now'** is explained in the note on Physical Theology on p. **13** here.

The interface 'now' at which the gravitational contributions from the *entire* spacetime are localized on a spacetime point -- think globally act locally -- is still difficult to understand (see Zhaoyan Wu below). People stubbornly believe that General Relativity were "classical theory". But a classical theory operates **exclusively** with '*objective* reality out there', which has two qualifications. Example:

1. If you look at the Sun, you will see its state, which has been '*objective* reality out there' 8 minutes and 18 seconds prior to the instant 'now' of your observation, as recorded with your wristwatch.

2. At *exactly* the same instant instant 'now', the Sun **is** indeed an '*objective* reality out there', which will be available to you for observation after 8 minutes and 18 seconds. Briefly, '*objective* reality out there' is a **fact**.

As is well known, Quantum Theory does not operate with such non-contextual '*objective* reality out there' -- see Erwin Schrödinger. Once you observe some physicalized "shadow" cast from the *potential* quantum state after von Neumann Process I, you cannot trace back its **source** to *any* spacetime segment. The **source** is the *potential* quantum state, which is **not** a 'fact' but 'potential reality' residing in the *atemporal* global mode of spacetime, casting its 4-D "shadows" (Plato) in terms of *physicalized* local mode of spacetime. Ditto to the gravitational contributions from the *entire* spacetime: their **source** is the *potential* gravitational state of the entire Universe, which is **not** located in the local mode of spacetime. Yes, it will always cast some physicalized "shadows" in terms of gravitational energy-momentum and angular momentum, but -- **no**, one cannot find their **source** in the local mode of spacetime (MTW, p. 467), as it *creates* the local mode of spacetime once-at-a-time.

Surely General Relativity (GR) cannot be the same type of quantum theory we know from quantum mechanics, but GR cannot be 'classical theory' either. Again, we have to **geometrize** gravity as quantum-gravitational potential reality, without allowing it to act as a *force* field exchanging "energy-momentum with both particles and electromagnetic field" (Zhaoyan Wu). Don't forget that if you treat gravity as some classical filed with the ontological status of '*objective* reality out there', you will have to "calculate" the two "dark", tug-of-war effects of gravity as being produced by such classical filed, which immediately leads to "the worst theoretical prediction in the history of physics!" (Anthony Lasenby *et al*., p. 187); see pp. 24-28 in horizon.pdf. Needless to say, there is no "singularity" either.

We should *not* use tensors, because they can only present the non-contextual '*objective* reality out there'. As Albert Einstein acknowledged during his last lecture (Relativity Seminar, Room 307, Palmer Physical Laboratory, Princeton University, recorded by John A. Wheeler on April 14, 1954), "the representation of matter by a tensor was only a fill-in to make it possible to do something temporarily, a wooden nose in a snowman."

This is Quantum Gravity 101. A Chinese proverb says: "When the student is ready, the Teacher will appear." Good luck.

D. Chakalov
June 8, 2015
Last updated: June 27, 2015, 12:16 GMT

==========

Subject: Re: SPESIF-2009; Log 092 - Brain-Controlled Cold Plasma
Date: Tue, 2 Jun 2015 18:14:18 +0000
Message-ID: <CAM7Ekxmud98nr+p5-sNTz9iuOcCWzb81i_1r0Uy-gs-6QkT7aA@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Glen Robertson <gravi_atomic@hotmail.com>, Glen A Robertson <gar7102@live.com>,
Dave Goodwin <Dave.Goodwin@science.doe.gov>, Len Danczyk <Len@energeticstech.com>,
Marc G Millis <marcgmillis@gmail.com>,
Giovanni Modanese <giovanni.modanese@unibz.it>, info@energeticstech.com
Cc: william.m.marshall@nasa.gov, joseph.h.banks@nasa.gov

Glen dorogoi,

You are indeed Russian:
http://www.god-does-not-play-dice.net/russian.html

My abstract entitled 'Brain-Controlled Cold Plasma' (BCCP), submitted to 'Workshop on Future Energy Sources', was rejected by you and your colleagues on 30 July 2008, without any explanation.

Three years later, you wrote an essay 'Putting the Science Back in Rocket Science' (November 3, 2011), which is full of magic conjurations and Russian poetry.

Get real. Check out pp. 24-28 in
http://www.god-does-not-play-dice.net/horizon.pdf

I extend this gentle suggestion to all your colleagues.

Needless to say, BCCP has been already confirmed, by different individuals.

Sincerely,

D. Chakalov
chakalov.net

On Wed, 30 Jul 2008 03:56:52 +0300, Dimi Chakalov <dchakalov@gmail.com> wrote:
[snip]

Note on REIM: Check out 'Acceleration in a straight line', Figure 1, bottom panel: "passenger is stationary in this frame, because the fictitious force and the real force of the seat are balanced", **ma** = **-ma**.

You can't fly because of Newton's third law. You need to neutralize the "fictitious force" **-ma** by "detaching" your rest mass "from all other masses in the universe" (Einstein 1917). But how? Keep your gravitational mass as 'potential reality' by switching to the global free-falling reference frame above, and you will fly your body just like moving your thoughts in your brain. To explain 'potential reality' residing in the potential **future**, which casts its "shadows" (Plato) in terms of *physicalized* reality with fixed -- once-at-a-time -- energy-momentum tensor in the **past**, read the text below:

> Aoccdrnig to a rscheearch at Cmabrigde Uinervtisy, it deosn't mttaer in waht oredr the ltteers in a wrod are, the olny iprmoetnt tihng is taht the frist and lsat ltteer be at the rghit pclae. The rset can be a total mses and you can sitll raed it wouthit a porbelm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter by istlef, but the wrod as a wlohe.

To understand it, you have to "elevate" the *meaning* of every 'word as a whole' and the *meaning* of the entire text 'as a whole' in the *potential reality* of your brain; try also the experiments on p. **2** and p. **8** in HBP.pdf.

Regrettably, the theory is still too general and cannot determine whether the REIM effect is scalable. That is, whether one could *inflate* the invariant interval 'one meter' in the reference frame of an Alien Visiting Craft (AVC) with respect to 'one meter' in the reference frame on the ground by, say, 1:1000. Hence if an AVC would fly with "fictitious" speed 5 km/h, it would be detected on the ground as flying with 5000 km/h (e.g., 0:54-0:56) and all air traffic controllers and "the good guys" operating spying satellites will go crazy. Of course, your beloved government will strongly deny the facts of AVCs, but this is a different thread.

D. Chakalov
June 8, 2015
Last updated: June 9, 2015, 17:30 GMT

==========

Subject: Re: G.M. Graf, General Relativity HS 08
Date: Thu, 18 Jun 2015 16:06:30 +0300
Message-ID: <CAM7Ekxm2OKVE8OH19tPT_XkwGW49AyWYfO5-mEAG6XTtKmPGbg@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Zhaoyan Wu <zyw@jlu.edu.cn>, Zhaoyan Wu <zhaoyanwu2000@yahoo.com>
Cc: Gian Michele Graf <gian-michele.graf@itp.phys.ethz.ch>,
[snip]

Hello Dr. Wu,

Thanks for your feedback and manuscript 100year.pdf. I fully agree with you that the gravitational field (p. 22) "does not exchange energy-momentum with both particles and electromagnetic field. So, it is not a force field, it does not carry energy-momentum. And gravity, the oldest natural force known to people, is not really a natural force."

Hence we have to geometrize gravity as quantum-gravitational *potential* reality, without allowing it to act *directly* as a force field. Physically, it is being "collapsed" (recall von Neumann Process I) to "zero" -- once-at-a-time -- at every instant 'now' read with your wristwatch,

http://www.god-does-not-play-dice.net/Montesinos.jpg

Regarding your statement (Zhaoyan Wu, 100year.pdf) that "matter energy-momentum conservation holds in infinitesimal neighborhoods" and "distributed over an infinitesimal hypersurface": how do you define 'infinitesimal neighborhood' and 'infinitesimal hypersurface' in the first place? Relationally? See an excerpt from my initial email to Gian-Michele Graf below.

Also, do you agree with the ideas by Schoen and Yau ?

http://www.god-does-not-play-dice.net/Schoen_Yau.jpg

Notice their grave mathematical error in Paper II above.

Last but not least, how would you define a covariant localizable description of gravitational energy-momentum along a continual trajectory? See

http://www.god-does-not-play-dice.net/Jose.jpg

My proposal is outlined in pp. 24-28,
http://www.god-does-not-play-dice.net/horizon.pdf

The opinions of your colleagues will be appreciated too.

Sincerely,

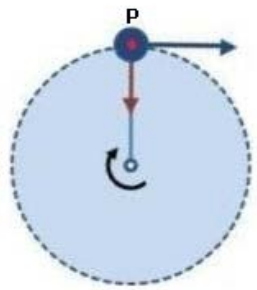
D. Chakalov
chakalov.net

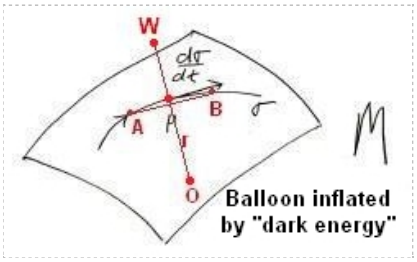
On Thu, May 7, 2015 at 4:18 PM, Dimi Chakalov <dchakalov@gmail.com> wrote:
[snip]
>
> Very briefly, you cannot define spacetime continuum of points p
> *relationally*, with 'neighborhood of p vs p'. If p was an apple and
> you were examining a bag of apples, then 'neighborhood of p' would be
> 'not-p' (e.g., air between apples), and you must add 'the bag itself'
> to 'not-p', so you could speak of an apple p with respect to 'not-p'
> (air between apples U the bag itself). Then the *set* of apples p will
> have denumerable cardinality and cannot make a continuum due to
> 'not-p': reductio ad absurdum.
>
> Thus, we have only one option to define the spacetime point p: as an
> *interface* between irreversible past and potential future. Needless
> to say, the *interface* p will have band new, *dual* topology: both

> "closed", relative to its irreversible past (here the contracted
> Bianchi identity holds perfectly well, along with Eq. 3.14 on p. 28),
> and "open", relative to its potential future
[snip]

Note

To understand the excerpt from my initial email dated 7 May 2015 to Gian-Michele Graf above, see p. **21** in horizon.pdf and the interpretation of "rotation" above, as well as the drawing here, on p. **5** in sheeple.pdf, and on p. **6** in horizon.pdf (balloon inflated by "dark energy") shown also below. Regarding the "rotation", notice the tangent vector in the first drawing below, attached to the spacetime point **P**, along with centrifugal (not shown in the first drawing) and centripetal *fictitious* forces (C. Seligman) along the **W0** axis from the second drawing below: your clock reads the time **t** defined with the dimensionless scale factor related to the "inflation" of the balloon surface (**APB**) driven by "dark energy", ever since The Beginning (John 1:1).





To understand the "tangent vector" at point **P**, see again the "tangent vector" **AB** = **dt** above. It is *not* some Killing vector nor "time-like vector field" (D. Blas), because it has **orthogonal** component**s** along **W0** axis, which cannot *in principle* be detected in the current, and essentially incomplete, formulation of GR using the Gauss-Bonnet theorem and "intrinsic curvature" (G. Dutta, Sec. II). These **orthogonal** component**s** define the **torsion** as 720-degree rotation along a Möbius strip ("two whole rotations", Kevin Brown) in the *global* mode of spacetime, endowing the *local* (physical) mode of spacetime with two physical modes of 'gravity as rotation', clockwise and counter-clockwise. Due to the "speed" of light, the torsion is being **re**-collapsed to **zero** ($\mathbf{w^2} = \mathbf{0}$, hyperimaginary numbers) at every instant 'now' from your 'proper time' defined with *inflating* distances, "as more spacetime fills in between galaxies" (see the drawings above and the explanation below). All this leads to **re**-assembled *physical* reality in terms of 'local mode of spacetime' endowed with finite size and proper distance, and such *physicalized* universe resembles an *unbroken ring with no circumference*, for the circumference is nowhere and the "center" is *everywhere*: see Physical Theology on p. **13** in horizon.pdf.

D. Chakalov
June 19, 2015
Last updated: July 30, 2015, 12:12 GMT

==========

Subject: S. Weinberg, Cosmology, Oxford University Press, Oxford, 2008, viii
Date: Tue, 23 Jun 2015 13:05:24 +0300
Message-ID: <CAM7Ekxk4cL3euG7Ezn3B1PfPn9X6evaL-23745YdogYF4EtVEQ@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Steven Weinberg <weinberg@physics.utexas.edu>
Cc: Robert Geroch <geroch@midway.uchicago.edu>,
[snip]

S. Weinberg: "Of course, I alone am responsible for any errors that may remain in the book. I hope that readers will let me know of any mistakes they may notice; I will post them on a web page, http://zippy.ph.utexas.edu/~weinberg/corrections.html"

Steven Weinberg:

You have posted 67 corrections to the first and second printing of your book at
http://zippy.ph.utexas.edu/~weinberg/swcorrections.pdf

Yet you have left the following statement on p. 2 in your book untouched:

"We say that **ds** is the proper distance between **x** and **x** + **dx**, meaning that it is the distance measured by a surveyor who uses a coordinate system that is Cartesian in a small neighborhood of the point **x**."

Can you count the errors in your statement above? Consider "proper distance", "between", "small neighborhood of", and finally "point x".

If you indeed feel "responsible for any errors that may remain in the book", I expect your conformation of this email, after which I will explain your errors in details (e.g., you cannot define 'scale factor', etc.).

If you are not interested in Cosmology, don't bother.

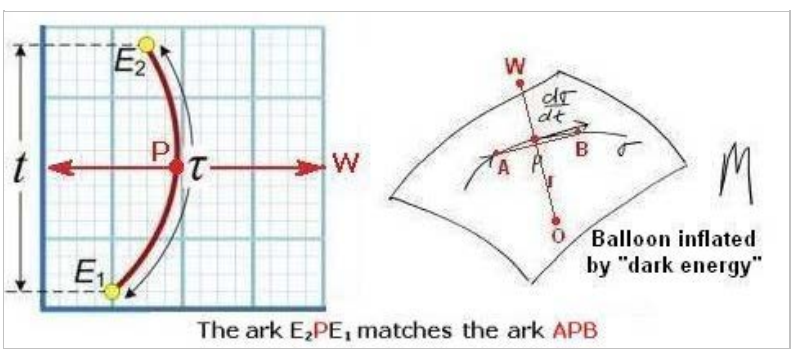
D. Chakalov
chakalov.net

Note on Cosmology

Prerequisites: the scale factor, proper time, and proper distance; T. Davis and C. Lineweaver, p. 3; the dynamics of General Relativity, pp. 16-28 in horizon.pdf; and P. Bergmann, G F R Ellis, T. Thiemann, D. Sciama, and M. Montesinos.

What makes Cosmology unique is that if offers a global unphysical view of the entire universe *en bloc*, as depicted in Hubblesite and in Fig. **1** from T. Davis and C. Lineweaver, p. 3. Why unphysical? Because you will have to be some ideal inertial observer at *rest* with respect to the "background" on which the universe is pictured as "curved block", which will allow you to have unique "comoving coordinates" during the entire cosmological time, from The Beginning to the current instant 'now' at 13.798 ± 0.037 billion years. Let me outline the problems with this expanding *closed* time interval of finite duration, shown with **[C, B]** below.

Don't mix apples with oranges: there is a fundamental difference between 'time as change *within* spacetime', called 'proper time' and denoted with the Greek letter **τ** (tau), and its **orthogonal** component 'time as change of the spacetime *itself*', encapsulating the *dynamics* of General Relativity (cf. pp. 24-28 in horizon.pdf) and denoted in the drawings below (the inflated balloon) with **W** (from *wunderbar*, after Theodor Kaluza). Notice that the first drawing pertains to physical, non-inertial observers endowed with *unending* potential infinity.



Thanks to the "speed" of light (cf. Addendum on p. **11** in horizon.pdf), at every instant 'now' from the proper time **τ** (tau), the **WO** axis is being **re**-nullified to match the absence of any *real* stuff **]**between**[** spacetime points: *perfect* continuum (local mode of spacetime endowed with *unending* potential infinity).

The proper time **τ** (tau) is related to the proper distance, while the **re**-assembling of spacetime along **W** , at every instant 'now' from the proper time **τ** (tau), is made by some entity that does not emit nor reflect light, so people consider it "dark" (e.g., Steven Weinberg, 1989). This "dark" entity is nothing but the *atemporal* feedback from the entire universe, produced by what is called here 'potential reality' (cf. Reichenbach's Common Cause, p. 2 in Chakalov_Jan_1990.pdf), residing in the *potential* future. The latter is **not** relativistic observable that could emit or reflect light, like the Sun above. If it were relativistic observable supported *exclusively* in its *past* light cone (see above), you will immediately hit "the worst theoretical prediction in the history of physics!" (Anthony Lasenby *et al*., p. 187). Why? Because you will consider two relativistic observables (like snooker played with two balls) with states $\mathbf{A_1}$ and $\mathbf{B_1}$ *before* interaction, such that *after* their interaction they obtain new states $\mathbf{A_2}$ and $\mathbf{B_2}$: $\mathbf{A_1} \rightarrow \mathbf{A_2}$ and $\mathbf{B_1} \rightarrow \mathbf{B_2}$. However, the stuff denoted with **B** cannot be observed (cf. Macavity), so people call it "dark" (snooker ball) and wonder what *relativistic observable* **B** could interact with $\mathbf{A_1}$ to obtain $\mathbf{A_2}$ with the astonishing precision of "one part to $\mathbf{10^{45}}$", yet **B** "cannot have any noticeable interactions with quarks and gluons, otherwise it would be observed in direct experiment, but still it must have **very same** vacuum energy"

(Alex Dolgov, p. **17** in horizon.pdf). **Dead end**. You cannot find a solution based on a **wrong** premise.

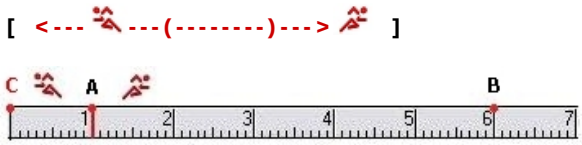
The unphysical, or rather *not-yet-physicalized* stuff **B** is presented as *potential* reality, yielding 'time as change of the spacetime *itself*': the infinitesimal transition **dt**, "during" $\mathbf{A_1} \rightarrow \mathbf{A_2}$, is **self-action**, **A** *acting on itself*, just like the human brain. Needless to say, **dt** belongs to the proper time **τ** (tau) *as well*.

Now, check out the two *global* states of the "curved block" universe (explanation and links above):

As time **τ** (tau) goes on, the spacetime *itself* has changed. To whom? Only to you, as an ideal inertial observer at *absolute rest* with respect to the "background" on which the entire universe is presented *en bloc.* Relative to a *physical* observer in non-inertial frames *within* spacetime, the proper distance between the two galaxies has **not** changed at all. Only her *measuring units* have been "inflated" during the time interval above, so her (not yours) "distance" between the two galaxies remains *unchanged*. So you will notice that the "inflation" of 'one meter' and 'one second' has produced "more spacetime", but relative to whom? To *you*, as an ideal inertial observer. Relative to her, as a *physical* observer in non-inertial frames *within* spacetime, there is no way for her to detect any "inflation" of her *metric* fixing 'one meter' and her 'one second'. Which observer may have an *absolute* 'one meter' and *absolute* 'one second'?

Nobody. You use actual or *completed* infinity -- "a totality of things which exists **all at once**", David Hilbert, 4 June 1925 -- to get an instantaneous "snapshot" of the entire universe. Thanks to your actual or *completed* infinity, you enjoy Archimedean topology (p. **2** in horizon.pdf) and *metric* pertaining to **finite** (neither zero nor infinite) proper length and proper time, such as *your* 'one meter' and 'one second', and *your* inertial wristwatch faithfully records *successive* instant of the inflation time as 'change of the spacetime *itself*', but only *relative* to you. The *physical* (not you) observer in non-inertial frames *within* spacetime can only use *potential* infinity, and her 'one meter' and 'one second' are only *relative* to her -- not to you. She cannot detect any change **of** spacetime from *within* spacetime; details in Relative Scale Spacetime.

Besides, no *physical* observer can *define* a distance **AB** (cf. below) that would increase with time specified with the scale factor. To define **AB**, the scale factor **must** be set to "zero" (denoted with **C** in the drawing below), and every *physical* (not you) observer will need some Biblical "miracle" to resolve the *logical paradox* of 'borders at time zero' (see p. **8** in horizon.pdf) and claim that 13.798 ± 0.037 billion years have elapsed after point **C**. Also, "in a general-relativistic theory the observables are the constants of the motion" (P. Bergmann, p. 16), and every *physical* (not you) observer *within* spacetime will be haunted by the fact that she cannot detect the inflation time **τ** (tau) as *physical* observable (T. Thiemann) parameterized by the "metric expansion of space":

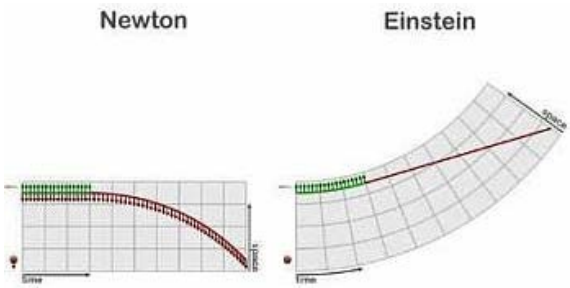


In Steven Weinberg's excerpt above, **CA** (the "proper distance" between **C = x** and **CA = x** + **dx**) is **ds** , while **AB** equals 13.798 ± 0.037 billion years -- see the notes on p. **3** in sheeple.pdf and p. **8** in horizon.pdf. You can notice that **AB** covers *much longer* time compared to **CA**, since you are *unphysical inertial* observer monitoring the entire cosmological evolution *en bloc*, but how do you know if the **red** physical girl running to the *left* will reach her (not yours) "border" at her (not yours) time zero at **C**? What if the **red** physical girl running to the *left* can only approach asymptotically **C**, but can never *actually* reach it due to her *potential* infinity? You can, as you use *completed* infinity. The **red** *physical* girls cannot, ever. If they could, they will trespass it and move on *forever*.

In summary, the Relative Scale Spacetime has **dual age**: <u>both</u> *finite,* for some *ideal inertial* observer like you, <u>and</u> *undecidably infinite,* for all accelerated observers in non-inertial frames, for which the spacetime is "infinitely old because infinitely many things have happened since its beginning." (C. Misner, p. 1331) Have your cake and eat it.

Yet you and the physical observers share *one and the same* spacetime point/event. Namely, every spacetime point has **dual topology** as well, as it embodies both actual/completed infinity pertaining to the **past** (always in **closed** intervals) and *unending* potential infinity that belongs to the *potential* future (always in **open** intervals): check out the *interface* 'now' in the note on Physical Theology on p. **13** in horizon.pdf and pay special attention to Case **IV**. It (not "He") is an omnipresent **non**-reality commonly known as the Noumenon (*Das Ding an sich*) and the perfect monad *without* windows (Leibniz). The idea of **non**-reality goes back to Plato, and I believe have explained (many times indeed) that we need a brand new type of *connection*, called Aristotelian Connection, to account for the *self-action* of the entire Universe as ONE (p. **28** in horizon.pdf). The reason is very simple: no matter how we model the spacetime to *geometrize* gravity (see the drawings below), the Aristotelian Unmoved Mover, performing the so-called Aristotelian Connection, is **non**-reality and cannot be *directly* presented, being **re**-nullified at *every* instant 'now' from the proper time **τ** (tau) matching the infinitesimal spatial displacement **ds**, along *both* the unphysical **WO**

axis *and* the ark $\mathbf{E_2PE_1}$ shown in the first drawings above.



Since Einstein's proposal to *geometrize* gravity (not as a physical force obeying Newton's third law), we suggest particular *alterations* of spacetime, encoded in the metric (General Relativity) or in the metric *and* topology, as in our proposal dubbed Relative Scale Spacetime. However, apart from Mathematics, *nothing* can present the **non**-reality itself. Only *pure* Mathematics, meaning that the question 'mathematics of *what*?' cannot *in principle* have an answer. If we use a metaphor with a train moving along its railroad (cf. p. **8** in sheeple.pdf), we can suggest all sorts of "alterations" of the railroad (spacetime), but surely these alterations cannot *in principle* encode the **engine** of the train. The railroad alone cannot *drive* the train, and the train's engine is **not** present in the railroad, being **non**-reality endowed with **self-action**: the Aristotelian Connection. And this is the reason for suggesting Case **IV** in our note on Physical Theology. Hence at every instant 'now' we've been passing through God (Luke 17:21).

Of course, many people will disagree, which is why I kindly invite them to use any theory of their choice, such as the Higgs field, exotic baryons, good and bad ghosts, or crystal balls, whichever comes first. There is absolutely nothing resembling law and order in the "spacetime foam" to raise a robust Lorentzian metric within 10^{-30} seconds "after" the "big bang", or actually much earlier at 10^{-35} seconds "after" the "big bang", when the spacetime were just about 1 cm across, and a causally connected region would have been *only* 10^{-24} cm across (the horizon problem), so that you could "inflate" the "size" of the universe by a factor of 10^{78} and then safely keep the Lorentzian metric for at least 13.798 ± 0.037 billion years rooted on the Planck length at which the spacetime points become totally fuzzy and locality loses *any* meaning. Forget it.

D. Chakalov
June 24, 2015
Last updated: July 27, 2015, 16:28 GMT

==========

Subject: Re: [Case_ID: 1047427 / 7393387] 08 Outstanding problem with an
on-going project | 08.01 European Research Council or Frontier research
Date: Fri, 26 Jun 2015 16:43:22 +0300
Message-ID: <CAM7EkxnfKx56RQWb-rFx6Djvktd6nHx4mi-O9eCDdjJLYEu7Lg@mail.gmail.com>
In-Reply-To: <558d448579408@edcc.ec.europa.eu>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Europe Direct <citizen_reply@edcc.ec.europa.eu>
Cc: David Charlton <d.g.charlton@bham.ac.uk>, SERGIO.BERTOLUCCI@cern.ch, ROLF.HEUER@cern.ch,
JOACHIM.MNICH@desy.de, LOHSE@physik.hu-berlin.de, KATSAN@admin.in2p3.fr,
JoAnne Hewett <HEWETT@slac.stanford.edu>, DYREKTOR@ifj.edu.pl, MANFRED.KRAMMER@oeaw.ac.at,
Karlheinz Meier <MEIERK@kip.uni-heidelberg.de>, THOMAS.MUELLER@kit.edu,
Kerstin Borras <KERSTIN.BORRAS@desy.de>, Halina Abramowicz <HALINA@post.tau.ac.il>,
CLAUDIA.WULZ@cern.ch, MKRAEMER@physik.rwth-aachen.de, RAFFELT@mpp.mpg.de,
MARKUS.SCHUMACHER@physik.uni-freiburg.de, ACHIM.STAHL@physik.rwth-aachen.de,
S.BENTVELSEN@nikhef.nl, N.DEGROOT@hef.ru.nl, T.PEITZMANN@phys.uu.nl,
BOSMAN@ifae.es, RICHARD.BRENNER@cern.ch, JOHAN.RATHSMAN@thep.lu.se,
E.W.N.GLOVER@durham.ac.uk, MKLEIN@hep.ph.liv.ac.uk, PHILIPPE.BLOCH@cern.ch,
JEAN-PIERRE.DELAHAYE@cern.ch, JURGEN.SCHUKRAFT@cern.ch, URS.WIEDEMANN@cern.ch,
CHARLOTTE.JAMIESON@stfc.ac.uk, Fabiola Gianotti <Fabiola.Gianotti@cern.ch>,
th-unit-secretariat@cern.ch, Ignatios Antoniadis <antoniadis@itp.unibe.ch>,
Peter Jenni <Peter.Jenni@cern.ch>, John Ellis <John.Ellis@cern.ch>, john.swain@cern.ch,
GERALDINE.SERVANT@cern.ch, CEDRIC.DELAUNAY@cern.ch, GIAN.GIUDICE@cern.ch,
CHRISTOPHE.GROJEAN@cern.ch, GILAD.PEREZ@cern.ch, JAMES.WELLS@cern.ch,
ANDREA.THAMM@cern.ch, CHRISTIAN.THOMAS.BYRNES@cern.ch,
ANNE-MARIE.PERRIN@cern.ch, Susanne Reffert <SUSANNE.REFFERT@cern.ch>,
JULIEN.LESGOURGUES@cern.ch, Georgi Dvali <GEORGI.DVALI@cern.ch>, HYUN.MIN.LEE@cern.ch,
GEORGE.ZOUPANOS@cern.ch, James Gillies <James.Gillies@cern.ch>,
Oliver Buchmueller <Oliver.Buchmueller@cern.ch>, Joseph.Incandela@cern.ch,
Arnaud.Marsollier@cern.ch, Renilde.Vanden.Broeck@cern.ch,
Joanna.Iwanska@cern.ch, Press.Office@cern.ch, Ivo.van.Vulpen@nikhef.nl,

Eric.Laenen@nikhef.nl, tushna.commissariat@iop.org, louise.mayor@iop.org,
Hamish Johnston <hamish.johnston@iop.org>, pwld@iop.org,
Michael Banks <michael.banks@iop.org>, Tiziano Camporesi <Tiziano.Camporesi@cern.ch>,
Jean-Pierre Derendinger <derendinger@itp.unibe.ch>, Michael Eichmair <michael.eichmair@math.ethz.ch>,
Wei-Tou Ni <weitou@gmail.com>, Thomas Sotiriou <T.Sotiriou@damtp.cam.ac.uk>

On Fri, 26 Jun 2015 14:24:36 +0200,
Message-ID: <558d448579408@edcc.ec.europa.eu> ,
Europe Direct <citizen_reply@edcc.ec.europa.eu> wrote:
>
> Dear Prof Chakalov,
>
> Thank you for your message and interest in ERC.
>
> As you know, developing and implementing science policy and research funding
> is a collective task, carried out by institutional agents such as, in our
> case, the ERC and ERCEA.
>
> Institutional agents do take into account individual opinions, but these are
> incorporated into procedures involving many people and ending up into
> institutional decisions that may be in disagreement with some individual
> opinions of many of those contributing to the process.

My objections are based on facts.

F A C T S .

Not "individual opinions".

> You can be reassured that close experts representative of both, the
> consensus and the heterodox views of the community, have participated in the
> final selection of this project.

No, I am not at all "assured" that some "experts" have "participated in the final selection of this project".

Please provide their names.

I need to know who is wasting BILLIONS of euros -- all taxpayers' money -- for chasing "black holes", "Higgs boson" (CERN), and "gravitational-wave astronomy" (ESA).

NB: The facts are on the table, and I will gladly offer them to all "experts".

Please provide their names.

> However, as we have described, the decision is the result of a collective
> process. We believe that a reasonable procedure, endowed with checks,
> balances and mechanisms for accountability has been used to reach the
> funding decision.

You are deadly WRONG -- see above.

Please provide the names of these "experts".

Looking forward to hearing from you at your earliest convenience,

Yours faithfully,

Dimi Chakalov

> ----------
> Date: Tuesday, 05/05/2015 13:56:49
> From: "Dimi Chakalov" <dchakalov@gmail.com>
> Subject: [Case_ID: 1047427 / 7393387] 08 Outstanding problem with an
> on-going project | 08.01 European Research Council or Frontier research
> ----------
>
> Community Research and Development Information Service (CORDIS)
> Challenging General Relativity
> http://cordis.europa.eu/project/rcn/104490_en.html
> Project reference: 306425

> Funded under: FP7-IDEAS-ERC
> From 2012-08-01 to 2017-07-31
> Total cost: EUR 1 375 226
> EU contribution: EUR 1 375 226
> ----
>
> Dear Sir or Madam,
>
> There are widely known, ever since 1922, mathematical facts, which prohibit
> the so called "black holes". It is not a matter of opinion. Please check out
>
> http://www.god-does-not-play-dice.net/horizon.pdf
>
> I utterly disagree with wasting taxpayers' money for chasing ghosts -- not
> only "black holes" but "Higgs boson" (CERN) and "gravitational-wave
> astronomy" (ESA) as well. Please refer to the text at the link above.
>
> I stand ready to elaborate.
>
> Yours sincerely,
>
> Dimi Chakalov
>

Note to CERN

The situation with CERN (cf. pp. **16-17** in horizon.pdf) is encoded in the oxymoron 'Standard Model Higgs boson'. People at CERN must *extend* their "standard model" in order to talk about something that **cannot** be defined in it.

As CERN acknowledged at their website: "The Standard Model does not predict the mass of the Higgs boson itself and therefore it must be measured experimentally" (CERN, 17 March 2015). English translation: 'We have no theory to predict the mass of the Higgs boson itself and therefore it might be guessed only with experiments based on wishful thinking or with crystal balls, whichever comes first'. All this for $13.25 billion (€11.83 billion) -- all taxpayers' money.

Since they deeply believe that their "god particle" gives **mass** to all elementary particles, they have to *extend* their "standard model" to include some brand new particle -- let them call it whatever they want -- responsible for **gravity**. How to prove that such (still unknown) particle is indeed responsible for **gravity**? Explain how the quantum vacuum contributes to gravity and then solve the cosmological constant problem: "Why is the universe larger than a football?" (Ivo van Vulpen). Then the new "extended standard model" -- let them call it however they want -- might eventually give them a hint about the mass of the Higgs boson itself, and they can start guessing whether some newly discovered Higgs-like bosons at 14 Tev might fit the bill, which will again make CERN Director General Rolf Heuer to be “delighted to see so many brilliant physicists from ATLAS and CMS joining forces” to obtain yet another “important measurement”.

When can we expect from CERN to do their homework? When pigs fly. Given the so-called string theory landscape, these people face "not merely entire new families of particles, but even some 10^{500} alternate universes." (M. Holman, p. 34; see also p. 2 and footnotes 4-6) They haven't resolved their problem from 1911 and never will. They simply don't care and are good for nothing.

Forget it.

D. Chakalov
June 30, 2015
Last updated: July 30, 2015, 12:30 GMT

==========

Subject: Einstein's Legacy
Date: Thu, 2 Jul 2015 19:06:58 +0000
Message-ID: <CAM7Ekx=vaC2uoA2ukspn=oyVYEjk4D93F9zzO36-+EKUv-s0og@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: t.clifton@qmul.ac.uk, mg14@icra.it, jjlee@daejin.ac.kr, ruffini@icra.it,
kiyoungchoi@kasi.re.kr, iycho@snut.ac.kr, gwkang@kisti.re.kr,
Valerio Faraoni <vfaraoni@ubishops.ca>, britgrav16@gmail.com, leo.brewin@monash.edu,
gr2015@ihp.fr, joselemos@ist.utl.pt, Tom <thomas.sotiriou@nottingham.ac.uk>,
vitor.cardoso@ist.utl.pt, oko@fuw.edu.pl, mark.hannam@astro.cf.ac.uk,
rezzolla@th.physik.uni-frankfurt.de

The right side is a formal condensation of all things whose comprehension in the sense of a field-theory is still problematic. Not for a moment, of course, did I doubt that this formulation was merely a makeshift in order to give the general principle

of relativity a preliminary closed expression. For it was essentially not anything more than a theory of the gravitational field, which was somewhat artificially isolated from a total field of as yet unknown structure.

Albert Einstein, Philosopher-Scientist, ed. by Paul A. Schilpp, Tudor Publishing Company, New York, 1951, p. 75

See pp. 24-28 in
http://www.god-does-not-play-dice.net/horizon.pdf

D. Chakalov
chakalov.net

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Subject: Re: Bernard Carr, The London Relativity and Cosmology Seminar, TBA
Date: Tue, 7 Jul 2015 12:44:02 +0300
Message-ID: <CAM7Ekxm83MptPA0OdD+Z-PVch=w0Fb0UU+GDO8Bupxgeq7EUOg@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Bernard J Carr <b.j.carr@qmul.ac.uk>
Cc: d.mulryne@qmul.ac.uk, t.clifton@qmul.ac.uk, d.burgess@qmul.ac.uk,
r.donnison@qmul.ac.uk, j.e.lidsey@qmul.ac.uk,
Richard Nelson <r.p.nelson@qmul.ac.uk>, s.j.paardekooper@qmul.ac.uk,
Claudia Nielsen <claudia@cnielsen.eu>, Zhaoyan Wu <zhaoyanwu2000@yahoo.com>,
Robert Geroch <geroch@midway.uchicago.edu>, Robert M Wald <rmwa@midway.uchicago.edu>,
Jörg Frauendiener <joergf@maths.otago.ac.nz>, Adam Helfer <helfera@missouri.edu>,
Laszlo Szabados <lbszab@rmki.kfki.hu>, Xiao Zhang <xzhang@amss.ac.cn>,
Richard M Schoen <schoen@math.stanford.edu>, Niall Ó Murchadha <niall@ucc.ie>,
Shing-Tung Yau <yau@math.harvard.edu>, Lau Loi So <s0242010@gmail.com>,
Steven Weinberg <weinberg@physics.utexas.edu>, Josh Goldberg <goldberg@phy.syr.edu>,
Jose Geraldo Pereira <jpereira@ift.unesp.br>, Mu-Tao Wang <mtwang@math.columbia.edu>,
Wei-Tou Ni <weitou@gmail.com>, Kip <kip@tapir.caltech.edu>,
Eduardo Guendelman <guendel@bgumail.bgu.ac.il>, Jim Isenberg <isenberg@uoregon.edu>,
Jose M M Senovilla <josemm.senovilla@ehu.es>, Chris Isham <c.isham@imperial.ac.uk>,
Vincent Moncrief <vincent.moncrief@yale.edu>, Thibault Damour <damour@ihes.fr>,
Mihalis <dafermos@princeton.edu>, Alan Rendall <rendall@aei.mpg.de>,
Helmut Friedrich <hef@aei.mpg.de>, Lars Andersson <laan@aei.mpg.de>, Paul Tod <tod@maths.ox.ac.uk>,
Ezra Newman <newman@pitt.edu>, Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>,
Robert Beig <robert.beig@univie.ac.at>, Demetrios Christodoulou <demetri@math.ethz.ch>,
Sergiu Klainerman <seri@math.princeton.edu>, Stanley Deser <deser@brandeis.edu>,
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Gary W Gibbons <G.W.Gibbons@damtp.cam.ac.uk>, Joseph Katz <jkatz@phys.huji.ac.il>,
Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>, Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>,
Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>, David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>,
John Stewart <j.m.stewart@damtp.cam.ac.uk>, John Barrow <J.D.Barrow@damtp.cam.ac.uk>,
Jonathan Thornburg <jthorn@astro.indiana.edu>, Jeffrey Winicour <winicour@pitt.edu>,
Greg Galloway <galloway@math.miami.edu>, Richard Woodard <woodard@phys.ufl.edu>,
Ravindra Saraykar <ravindra.saraykar@gmail.com>, Domenico Giulini <giulini@itp.uni-hannover.de>,
Claus Kiefer <kiefer@thp.uni-koeln.de>, Claus Gerhardt <gerhardt@math.uni-heidelberg.de>,
John Friedman <friedman@uwm.edu>, Roger Penrose <rouse@maths.ox.ac.uk>,
Lee Smolin <lsmolin@perimeterinstitute.ca>

See an excerpt (attached) from p. 26 in
http://www.god-does-not-play-dice.net/note.pdf

Can you read it?

D.C.

On Fri, Jul 3, 2015 at 3:33 PM, Dimi Chakalov <dchakalov@gmail.com> wrote:
>
> September 30th, 2015 at 16:30, Room: G. O. Jones 516
> ----
>
> Dear Bernard,
>
> I trust you will mention the facts you've learned since we met on May 30, 2002 --
> please check out my website below, pp. 24-28 in horizon.pdf and pp. 17-30 in note.pdf.
> It's about the origin of gravity. I will be happy to attend your seminar talk, as you

> attended mine thirteen years ago.
>
> All the best,
>
> Dimi
> ----
> D. Chakalov
> chakalov.net

Attachment: p26.jpg

==========

Subject: The Higgs Boson Should Have Crushed the Universe
Date: Sun, 5 Jul 2015 15:40:31 +0300
Message-ID: <CAM7Ekxk__N0rbL+q=Jae4OXF5C+m7ZSs9Y0q1ru+F-iJZ-naQg@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Robert Hogan <robert.hogan@kcl.ac.uk>
Cc: Malcolm Fairbairn <malcolm.fairbairn@kcl.ac.uk>, Bernard J Carr <b.j.carr@qmul.ac.uk>,
d.mulryne@qmul.ac.uk, t.clifton@qmul.ac.uk, d.burgess@qmul.ac.uk,
r.donnison@qmul.ac.uk, j.e.lidsey@qmul.ac.uk,
Richard Nelson <r.p.nelson@qmul.ac.uk>, s.j.paardekooper@qmul.ac.uk,
Keith Smith <kts@ras.org.uk>, Robert Massey <rm@ras.org.uk>, Ivo.van.Vulpen@nikhef.nl,
Roy Maartens <roy.maartens@port.ac.uk>, Tom Kibble <t.kibble@imperial.ac.uk>

Dear Dr. Hogan,

Regarding your arXiv:1403.6786v3 [hep-ph], you said: "This is an unacceptable prediction
of the theory because if this had happened we wouldn't be around to discuss it",

http://news.discovery.com/space/cosmology/the-higgs-boson-should-have-crushed-the-universe-140624.htm

Please see the solution on pp. 26-30 in
http://www.god-does-not-play-dice.net/note.pdf

Your professional opinion, as well as the feedback from your colleagues, will be greatly
appreciated.

Sincerely,

Dimi Chakalov
chakalov.net

==========

Subject: Re: Is Gravity Quantum? arXiv:1507.05733v1 [quant-ph]
Date: Fri, 24 Jul 2015 15:39:44 +0300
Message-ID: <CAM7Ekx=UOgK-ibXt1k+3cbQt9X4M3v=8qOircyPSSWCNv7LPYQ@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Giancarlo Ghirardi <ghirardi@ictp.it>
Cc: Angelo <bassi@ts.infn.it>, Mauro Paternostro <m.paternostro@qub.ac.uk>,
Mohammad <mohammad.bahrami@ts.infn.it>, Ulbricht <h.ulbricht@soton.ac.uk>,
Karl Svozil <svozil@tuwien.ac.at>, Philip Pearle <ppearle@hamilton.edu>,

Klaas Landsman <landsman@math.ru.nl>, Chris Isham <c.isham@imperial.ac.uk>,
Brukner Caslav <caslav.brukner@univie.ac.at>, Anton <anton.zeilinger@univie.ac.at>,
Maurice de Gosson <maurice.degosson@gmail.com>, Carlo <rovelli.carlo@gmail.com>,
Lee Smolin <lsmolin@perimeterinstitute.ca>, John Baez <baez@math.ucr.edu>,
Karel V Kuchar <kuchar@physics.utah.edu>, Norbert Straumann <norbert.straumann@gmail.com>,
Gerardus <g.thooft@uu.nl>, Gerardus <W.L.Verweij@uu.nl>,
David Charlton <d.g.charlton@bham.ac.uk>, JOACHIM.MNICH@desy.de, LOHSE@physik.hu-berlin.de,
KATSAN@admin.in2p3.fr, JoAnne Hewett <HEWETT@slac.stanford.edu>, DYREKTOR@ifj.edu.pl,
MANFRED.KRAMMER@oeaw.ac.at, Karlheinz Meier <MEIERK@kip.uni-heidelberg.de>,
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Halina Abramowicz <HALINA@post.tau.ac.il>, CLAUDIA.WULZ@cern.ch,
MKRAEMER@physik.rwth-aachen.de, RAFFELT@mpp.mpg.de,
MARKUS.SCHUMACHER@physik.uni-freiburg.de, ACHIM.STAHL@physik.rwth-aachen.de,
S.BENTVELSEN@nikhef.nl, N.DEGROOT@hef.ru.nl, T.PEITZMANN@phys.uu.nl,
BOSMAN@ifae.es, RICHARD.BRENNER@cern.ch, JOHAN.RATHSMAN@thep.lu.se,
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JEAN-PIERRE.DELAHAYE@cern.ch, JURGEN.SCHUKRAFT@cern.ch, URS.WIEDEMANN@cern.ch,
CHARLOTTE.JAMIESON@stfc.ac.uk, th-unit-secretariat@cern.ch,
Ignatios Antoniadis <antoniadis@itp.unibe.ch>, Peter Jenni <Peter.Jenni@cern.ch>,
John Ellis <John.Ellis@cern.ch>, john.swain@cern.ch, GERALDINE.SERVANT@cern.ch,
CEDRIC.DELAUNAY@cern.ch, GIAN.GIUDICE@cern.ch, CHRISTOPHE.GROJEAN@cern.ch,
GILAD.PEREZ@cern.ch, JAMES.WELLS@cern.ch, ANDREA.THAMM@cern.ch,
CHRISTIAN.THOMAS.BYRNES@cern.ch, ANNE-MARIE.PERRIN@cern.ch,
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Georgi Dvali <GEORGI.DVALI@cern.ch>, HYUN.MIN.LEE@cern.ch, GEORGE.ZOUPANOS@cern.ch,
James Gillies <James.Gillies@cern.ch>, Jean-Pierre Derendinger <derendinger@itp.unibe.ch>,
Andreas <andreas.doering@comlab.ox.ac.uk>, Niall Ó Murchadha <niall@ucc.ie>,
Cecilia Flori <cflori@perimeterinstitute.ca>, Dorje Brody <d.brody@imperial.ac.uk>,
Paul Davies <deepthought@asu.edu>, David <da5@columbia.edu>, Huw Price <hp331@cam.ac.uk>,
Robert Geroch <geroch@midway.uchicago.edu>, Robert M Wald <rmwa@midway.uchicago.edu>,
Jörg Frauendiener <joergf@maths.otago.ac.nz>, Hans Ohanian <hohanian@uvm.edu>,
Adam Helfer <helfera@missouri.edu>, Laszlo Szabados <lbszab@rmki.kfki.hu>,
Xiao Zhang <xzhang@amss.ac.cn>, Richard M Schoen <schoen@math.stanford.edu>,
Shing-Tung Yau <yau@math.harvard.edu>, Lau Loi So <s0242010@gmail.com>,
Steven Weinberg <weinberg@physics.utexas.edu>, Josh Goldberg <goldberg@phy.syr.edu>,
Jose Geraldo Pereira <jpereira@ift.unesp.br>, Mu-Tao Wang <mtwang@math.columbia.edu>,
Wei-Tou Ni <weitou@gmail.com>, Kip <kip@tapir.caltech.edu>,
Eduardo Guendelman <guendel@bgumail.bgu.ac.il>, Jim Isenberg <isenberg@uoregon.edu>,
Jose M M Senovilla <josemm.senovilla@ehu.es>, Vincent Moncrief <vincent.moncrief@yale.edu>,
Thibault Damour <damour@ihes.fr>, Mihalis <dafermos@princeton.edu>,
Alan Rendall <rendall@aei.mpg.de>, Helmut Friedrich <hef@aei.mpg.de>, Lars Andersson <laan@aei.mpg.de>,
Paul Tod <tod@maths.ox.ac.uk>, Ezra Newman <newman@pitt.edu>,
Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>, Robert Beig <robert.beig@univie.ac.at>,
Demetrios Christodoulou <demetri@math.ethz.ch>, Sergiu Klainerman <seri@math.princeton.edu>,
Stanley Deser <deser@brandeis.edu>, Florian Beyer <fbeyer@maths.otago.ac.nz>,
Ettore Minguzzi <ettore.minguzzi@unifi.it>, Gary W Gibbons <G.W.Gibbons@damtp.cam.ac.uk>,
Joseph Katz <jkatz@phys.huji.ac.il>, Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>,
Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>, Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>,
David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>, John Stewart <j.m.stewart@damtp.cam.ac.uk>,
John Barrow <J.D.Barrow@damtp.cam.ac.uk>, Jonathan Thornburg <jthorn@astro.indiana.edu>,
Jeffrey Winicour <winicour@pitt.edu>, Greg Galloway <galloway@math.miami.edu>,
Richard Woodard <woodard@phys.ufl.edu>, Bernard J Carr <b.j.carr@qmul.ac.uk>,
Ravindra Saraykar <ravindra.saraykar@gmail.com>, Carlos Kozameh <kozameh@famaf.unc.edu.ar>,
Domenico Giulini <giulini@itp.uni-hannover.de>, Claus Kiefer <kiefer@thp.uni-koeln.de>,
Claus Gerhardt <gerhardt@math.uni-heidelberg.de>, John Friedman <friedman@uwm.edu>,
Luis Lehner <llehner@perimeterinstitute.ca>, Eric Poisson <poisson@physics.uoguelph.ca>,
Roger Penrose <rouse@maths.ox.ac.uk>,
[snip]

On Wed, 22 Jul 2015 21:12:23 +0200,
In-Reply-To: <CAM7Ekx=DhdFTMrYX2jd3TEA2Vv57Mmea6R=0oj5G-8NMgF1ODw@mail.gmail.com>,
Message-Id: <C9D30EEE-1D90-4805-9214-FF63191964F6@ictp.it>,
Subject: Re: Is Gravity Quantum? arXiv:1507.05733v1 [quant-ph],
Giancarlo Ghirardi <ghirardi@ictp.it> wrote:
>
> Nonsense!
> Ghirardi

Prove it, GianCarlo. Go ahead. Make your best shot.

Again, the link is
http://www.god-does-not-play-dice.net/Fig_8_small.jpg

Prof. Chris Isham claims that I look like "just another crank" (12 Oct 2007), while Prof. Maurice de Gosson reacted with "Buzz off, idiot!" (21 May 2012). Yet the problem at the link above is known since 1911, and is by now *the* most widely known public secret in theoretical physics.

Please don't keep quiet and don't pretend you cannot understand it -- you are not stupid.

I extend this gentle suggestion to all your distinguished colleagues.

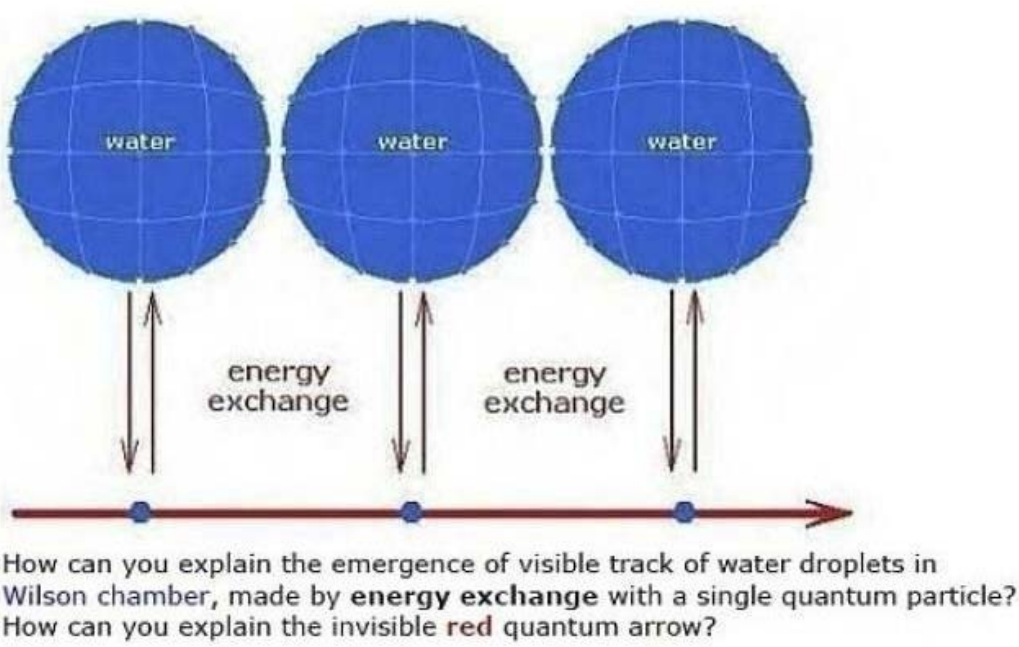
D. Chakalov
chakalov.net

>> Il giorno 22/lug/2015, alle ore 19:18, Dimi Chakalov <dchakalov@gmail.com> ha scritto:
>>
>> Angelo, you and your colleagues are wasting your time.
>>
>> Check out the facts:
>> http://www.god-does-not-play-dice.net/Fig_8_small.jpg
>>
>> There Are None So Blind As Those Who Will Not See.
>>
>> D. Chakalov
>> chakalov.net

Note

Here is the only mystery in Quantum Mechanics, Fig_8_small.jpg, as explained above:

To obtain a quantum description of a gravitational system, you must start with a quantum description of a quantum system. The task is known since 1911:



If you use *classical* description of a quantum system, as in the current QM textbooks (e.g., GianCarlo Ghirardi), you will never understand the quantum world, just as an Eskimo could never understand elephant's trunk by measuring it with two *complementary* devices, "nose" and "arm" (cf. pp. **7-8** in HBP.pdf). The invisible **red** quantum arrow above can only be described with an **intact** quantum "trunk", which is neither "particle" nor "wave", does not "collapse" nor "decohere", and is immune to any "uncertainty". This is the essence of the *quantum* description of a quantum system, which is needed to proceed further to a quantum description of a *gravitational* system. Back in May 1989, John A. Wheeler wasn't interested (see below), although neither he nor any of his colleagues could explain (**i**) the *atemporal* "parameter" in Schrödinger's equation (cf. p. **10** and p. **16** in horizon.pdf) and (**ii**) the cosmological "constant" problem: "no argument has been given to provide a lower bound to the value of

Λ and, in particular, it is not clear why Λ does not simply vanish" (Tsvi Piran *et al*., arXiv:1508.01034v1).

There Are None So Blind As Those Who Will Not See.

D. Chakalov
July 25, 2015
Last updated: August 11, 2015, 13:58 GMT

==========

Subject: Re: arXiv:1508.02779v1 [quant-ph]
Date: Fri, 14 Aug 2015 11:56:13 +0300
Message-ID: <CAM7EkxmQQS48A7LOYovpa-TMtJWcNFr99+RzaadSpKE5zKn+RA@mail.gmail.com>
In-Reply-To: <HKNPR04MB045074D08C8FDFB2FD86EDA6B57C0@HKNPR04MB0450.apcprd04.prod.outlook.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: HOFMANN HOLGER FRIEDRICH <hofmann@hiroshima-u.ac.jp>
Cc: Chun-Yen Lin <chunyenlin@cc.ncu.edu.tw>,
Jonathan Halliwell <j.halliwell@imperial.ac.uk>, Chris Isham <c.isham@imperial.ac.uk>,
Ghirardi Giancarlo <ghirardi@ictp.it>, Carlos Kozameh <kozameh@famaf.unc.edu.ar>,
Klaas Landsman <landsman@math.ru.nl>, Jeffrey Bub <jbub@umd.edu>, Karl Svozil <svozil@tuwien.ac.at>,
Andreas <andreas.doering@comlab.ox.ac.uk>, donnelly@physics.ucsb.edu,
Steven Giddings <giddings@physics.ucsb.edu>, Robert Geroch <geroch@midway.uchicago.edu>,
Robert M Wald <rmwa@midway.uchicago.edu>, Jörg Frauendiener <joergf@maths.otago.ac.nz>,
Adam Helfer <helfera@missouri.edu>, Laszlo Szabados <lbszab@rmki.kfki.hu>,
Xiao Zhang <xzhang@amss.ac.cn>, Richard M Schoen <schoen@math.stanford.edu>,
Niall Ó Murchadha <niall@ucc.ie>, Claus Kiefer <kiefer@thp.uni-koeln.de>,
Shing-Tung Yau <yau@math.harvard.edu>, Lau Loi So <s0242010@gmail.com>,
Steven Weinberg <weinberg@physics.utexas.edu>, Josh Goldberg <goldberg@phy.syr.edu>,
Jose Geraldo Pereira <jpereira@ift.unesp.br>, Mu-Tao Wang <mtwang@math.columbia.edu>,
Wei-Tou Ni <weitou@gmail.com>, Kip <kip@tapir.caltech.edu>,
Eduardo Guendelman <guendel@bgumail.bgu.ac.il>, Jim Isenberg <isenberg@uoregon.edu>,
Jose M M Senovilla <josemm.senovilla@ehu.es>, Vincent Moncrief <vincent.moncrief@yale.edu>,
Thibault Damour <damour@ihes.fr>, Mihalis <dafermos@princeton.edu>,
Alan Rendall <rendall@aei.mpg.de>, Helmut Friedrich <hef@aei.mpg.de>, Lars Andersson <laan@aei.mpg.de>,
Paul Tod <tod@maths.ox.ac.uk>, Ezra Newman <newman@pitt.edu>,
Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>, Robert Beig <robert.beig@univie.ac.at>,
Demetrios Christodoulou <demetri@math.ethz.ch>, Sergiu Klainerman <seri@math.princeton.edu>,
Stanley Deser <deser@brandeis.edu>, Florian Beyer <fbeyer@maths.otago.ac.nz>,
Ettore Minguzzi <ettore.minguzzi@unifi.it>, Gary W Gibbons <G.W.Gibbons@damtp.cam.ac.uk>,
Joseph Katz <jkatz@phys.huji.ac.il>, Paul K Townsend <P.K.Townsend@damtp.cam.ac.uk>,
Harvey S Reall <H.S.Reall@damtp.cam.ac.uk>, Fernando Quevedo <F.Quevedo@damtp.cam.ac.uk>,
David M A Stuart <D.M.A.Stuart@damtp.cam.ac.uk>, John Stewart <j.m.stewart@damtp.cam.ac.uk>,
John Barrow <J.D.Barrow@damtp.cam.ac.uk>, Jonathan Thornburg <jthorn@astro.indiana.edu>,
Jeffrey Winicour <winicour@pitt.edu>, Greg Galloway <galloway@math.miami.edu>,
Richard Woodard <woodard@phys.ufl.edu>, Bernard J Carr <b.j.carr@qmul.ac.uk>,
Ravindra Saraykar <ravindra.saraykar@gmail.com>, Domenico Giulini <giulini@itp.uni-hannover.de>,
[snip]

Hofmann-san,

> I am always a bit puzzled about replies that do not seem to relate
> to the contents of the paper.

You have facts: see the first link below. What can you do to solve the puzzle of two tracks,
visible and invisible? Some kind of Schrödinger representation to recover the Hamiltonians (plural)?

Please try to respond professionally.

I extend this suggestion to all your colleagues.

D. Chakalov
chakalov.net

_____
> From: Dimi Chakalov <dchakalov@gmail.com>
> Sent: Friday, August 14, 2015 7:03 AM
> To: HOFMANN HOLGER FRIEDRICH
> Subject: arXiv:1508.02779v1 [quant-ph]
>

> Recall the facts from 1911:
> http://www.god-does-not-play-dice.net/Fig_8_small.jpg
>
> Explanation on p. 34 in
> http://www.god-does-not-play-dice.net/note.pdf
>
> More at my website.
>
> D. Chakalov
> chakalov.net

==========

Subject: Quantization of general relativity ?
Date: Thu, 18 Dec 2014 14:05:20 +0200
Message-ID: <CAM7EkxmXQvS6PNndALhPXrnie1S1bPx0vccignvqmKehC+o+rw@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Charles W Misner <misner@umd.edu>
Cc: Karel V Kuchar <kuchar@physics.utah.edu>, Chris Isham <c.isham@imperial.ac.uk>,
Carl H Brans <brans@loyno.edu>, carlo rovelli <rovelli.carlo@gmail.com>,
Lee Smolin <lsmolin@perimeterinstitute.ca>,
Thomas Thiemann <thiemann@theorie3.physik.uni-erlangen.de>,
Domenico Giulini <domenico.giulini@itp.uni-hannover.de>, Klaas Landsman <landsman@math.ru.nl>,
Renate <r.loll@science.ru.nl>, Adam Helfer <helfera@missouri.edu>,
Laszlo Szabados <lbszab@rmki.kfki.hu>, Jörg Frauendiener <joergf@maths.otago.ac.nz>,
Robert Geroch <geroch@midway.uchicago.edu>, Ben Whale <bwhale@maths.otago.ac.nz>,
Robert M Wald <rmwa@midway.uchicago.edu>, Ezra Newman <newman@pitt.edu>,
Paul Tod <tod@maths.ox.ac.uk>, Greg Galloway <galloway@math.miami.edu>,
Lars Andersson <laan@aei.mpg.de>, Robert Beig <robert.beig@univie.ac.at>,
Sascha Husa <sascha.husa@gmail.com>, Hans Ringström <hansr@kth.se>,
Shing-Tung Yau <yau@math.harvard.edu>, Richard M Schoen <schoen@math.stanford.edu>,
John Baez <baez@math.ucr.edu>, Sean Hayward <sean_a_hayward@yahoo.co.uk>,
James M Nester <nester@phy.ncu.edu.tw>, Niall Ó Murchadha <niall@ucc.ie>,
Ettore Minguzzi <ettore.minguzzi@unifi.it>, Xiao Zhang <xzhang@amss.ac.cn>,
Mu-Tao Wang <mtwang@math.columbia.edu>, Carlos Kozameh <kozameh@famaf.unc.edu.ar>,
Bernard J Carr <b.j.carr@qmul.ac.uk>, Louis Witten <lwittenw@gmail.com>, Ed Witten <witten@ias.edu>,
Dieter R Brill <brill@umd.edu>, Jim Isenberg <isenberg@uoregon.edu>,
Sergiu Klainerman <seri@math.princeton.edu>, Jack Lee <lee@math.washington.edu>,
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John Stachel <john.stachel@gmail.com>, John Stewart <j.m.stewart@damtp.cam.ac.uk>,
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George F Smoot III <gfsmoot@lbl.gov>, Anthony Leggett <aleggett@illinois.edu>,
Charles Torre <charles.torre@usu.edu>, Dorje Brody <d.brody@imperial.ac.uk>,
Helmut Friedrich <hef@aei.mpg.de>, Gary Horowitz <gary@physics.ucsb.edu>, George <gfrellis@gmail.com>,
Stephen Barnett <stephen.barnett@glasgow.ac.uk>, Sorin Paraoanu <sorin.paraoanu@aalto.fi>,
Roger Penrose <rouse@maths.ox.ac.uk>,
[snip]

Dear Dr. Misner,

In July 1957, you proposed the so-called Feynman quantization of general relativity (originally suggested by your late mentor John A. Wheeler), and stressed that its Hamiltonian must vanish [Ref. 1].

May I ask you to explain the emergence of visible track of water droplets in Wilson chamber, made by energy exchanges with a single quantum particle [Ref. 2],

http://www.god-does-not-play-dice.net/Fig_8.jpg

I extend this challenge from 1911 to all your colleagues.

In May 1989, I met Dr. John A. Wheeler during a lunch in the cafeteria of the Physics Department (Princeton University), and tried to explain briefly the crux of the issue from 1911: the intact quantum reality 'out there' is *not* directly observable (cf. the link above), which leads to the inevitable conclusion that its Hamiltonian must vanish [Ref. 1]. Yet the intact quantum reality 'out there' is atemporal *ab initio*, resembling (but **not** identical to) the human cognition. To explain the meaning of 'atemporal', I offered his own observation [Ref. 3], which he has seen in 1976, on a wall in the Pecan Street Cafe in Austin, TX:

"Time is Nature's way to keep everything from happening all at once."

Briefly, we have atemporal reality, which shows up as intact quantum reality 'out there', in line with the proposal by Plato [Ref. 2].

Well, you knew your late mentor, and I suppose you can imagine how he responded. I will always remember his blue eyes steering at me. The lunch, however, was delicious.

Wishing you a very merry Christmas,

Dimi Chakalov

[Ref. 1] Charles W. Misner, Feynman Quantization of General Relativity, Rev. Mod. Phys. 29(3) 497-509 (1957), p. 499 and pp. 508-509.
http://www.god-does-not-play-dice.net/Misner.pdf

[Ref. 2] D. Chakalov, Relative Scale Spacetime, viXra:1410.0194, Fig. 3 and Fig. 8.
http://vixra.org/abs/1410.0194

[Ref. 3] John A. Wheeler, Time Today, in: 'Physical Origins of Time Asymmetry', ed. by J.J. Halliwell, J. Pérez-Mercader, and W.H. Zurek, Cambridge University Press, 1994, p. 1.

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Subject: arXiv:1508.00531v1 [math.DG]
Date: Fri, 7 Aug 2015 15:03:21 +0300
Message-ID: <CAM7EkxkpoH8i+ZsFDHDdssQFrhZ6o+=3NWV2FOZAi_ptzV273A@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Christina <sormanic@gmail.com>, Carlos Vega <vegaca@slu.edu>,
Jose M M Senovilla <josemm.senovilla@ehu.es>

Dear Christina,

I am trying to understand your recent paper. May I ask you for help with the idea of "tau vanishes" (cf. attached).

Taking as analogy the invisible ("dark") strips separating snapshots from a movie reel (cf. attached), the tau-strips must "vanish" into "null intervals" to produce a *continuum* of 4D snapshots 'here and now' viz. spacetime on which you can define distance function such that every finite distance, say, one meter, is a set with *undecidable* cardinality of 4D points.

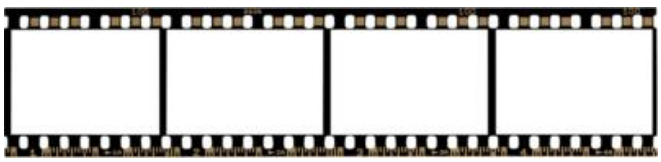
So what is "null interval"? Does the vanishing of tau (cf. attached) have a limit? If it has a limit "zero", how come all 4D spacetime points do not fuse into one superimposed "point"? Or perhaps this limit is "some kind of boundary, or margin, which is not part of the space-time but that, somehow, it is accessible from within it" (Jose Senovilla, arXiv:physics/0605007v1)?

The feedback from Dr. Vega will be appreciated as well.

Kind regards,

Dimi
--
D. Chakalov
chakalov.net

On the other hand, taking $\tau = t^3$ on Minkowski induces a null distance function which is indefinite. In this case, $\hat{d}_\tau$ assigns a distance of 0 between any two points in the $\{t = 0\}$ slice, (where $\nabla\tau$ vanishes).



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Subject: Xiao Zhang, arXiv:1508.04230v1 [math.DG], p. 2: Lambda is **undecidable**.
Date: Wed, 19 Aug 2015 15:44:42 +0300
Message-ID: <CAM7Ekx=7wtAjdpFiAk+XNZRQbjxjXLrk5K74VugXb8DiR-m24g@mail.gmail.com>
From: Dimi Chakalov <dchakalov@gmail.com>
To: Xiao Zhang <xzhang@amss.ac.cn>, Greg Galloway <galloway@math.miami.edu>,
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Jeffrey Winicour <winicour@pitt.edu>, Robert M Wald <rmwa@midway.uchicago.edu>,
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John Baez <baez@math.ucr.edu>, Gábor <etesi@math.bme.hu>, Hans Ringström <hansr@kth.se>,
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Piotr T Chrusciel <piotr.chrusciel@univie.ac.at>, Shing-Tung Yau <yau@math.harvard.edu>,
Mu-Tao Wang <mtwang@math.columbia.edu>, Lau Loi So <s0242010@gmail.com>

Dear Xiao,

In your latest arXiv:1508.04230v1 [math.DG], you acknowledged (p. 2) the "pseudotensor characteristic of the Lagrangian for gravity" (D. Christodoulou, ref. [15] therein) and stressed that "what energy of the ground states is needs much deeper physical theory".

But how do you know that the cosmological "constant" [lambda] can have any *decisive* value in the first place? This is your tacit presumption, which is, in my view, wrong: [lambda] is **undecidable**.

If you could prove energy conservation in GR (nobody could do such miracle, of course), then you might speculate that [lambda] can have some decisive value viz. examine three possible cases, [lambda] =0, [lambda] >0, and [lambda] <0. But 'energy conservation' is like your money in your bank account: if you withdrew 100 yuans, the total amount of your money with be again conserved. It is like stealing a tractor in Cuba: nobody cares, for it will be always located on the island. And the island does have fixed boundaries, as in the example with the bartender on p. 2 in

http://www.god-does-not-play-dice.net/horizon.pdf

Nature does not work with such "conservation", firstly because the spacetime does not and cannot have fixed boundaries *exactly* at the joint endpoint of null-and-spacelike infinity: see the text at the link above.

For example, if you observe particular amount of energy release from the vacuum (e.g., GRBs), the "total amount" of energy stored in the vacuum will not change a bit. Why? Because it is undecidable in the first place, like the song about Aleph-null bottles of beer,

http://mathworld.wolfram.com/Aleph-0.html

"Aleph-null bottles of beer on the wall, Aleph-null bottles of beer, Take one down, and pass it around, Aleph-null bottles of beer on the wall".

Hence all you could do is to seek a "much deeper physical theory" and model the spacetime as an "island" with undecidable "size" and energy, embedded in 'potential reality', after Plato:

http://www.god-does-not-play-dice.net/rs_spacetime.pdf

The task is strictly mathematical. We should be able to extract unlimited energy from the vacuum, with no pollution whatsoever. Recall this next time you breath smog in Beijing,

https://en.wikipedia.org/wiki/Pollution_in_China

Looking forward to reading your corrected arXiv:1508.04230v**2** [math.DG],

All the best,

Dimi

D. Chakalov
chakalov.net

Note: Ever since the Beginning, at every instant 'now' from the cosmological time the *physical* universe does have an exact *physicalized* quantum-gravitational state -- one-at-a-time -- and we can apply to it the contracted Bianchi identities (M. Montesinos). Hence the second CC problem 'why now?' ("the coincidence scandal", S. Carroll) is solved from the outset as well.

More in the explanation from September 2011.

D. Chakalov
August 22, 2015, 12:00 GMT

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Acknowledgments

I thank 魔术YIF and Steven Freyne for their demonstrations, and the physicists above for their very valuable insights, which helped me explain the origin of gravity. Needless to say, I am solely responsible for possible errors and omissions.

D. Chakalov
May 6, 2015, 21:43 GMT