

Subject: **LISA Pathfinder is a scam!**

Date: Thu, 3 Dec 2015 19:02:47 +0200

Message-ID: CAM7Ekxk2Hkf0fXtnqrx8OvoPc-vOYDSw6iH\_MN8jzV\_tr=668A@mail.gmail.com

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Ladies and Gentlemen,

Today, 3 December 2015, ESA's LISA Pathfinder was launched, with the purpose to "demonstrate technology for observing gravitational waves from space" [[Ref. 1](#)].

This is an enormous \*scam\* conducted by many groups of individuals, which obliterated hundreds of millions of euros -- all taxpayers' money.

All these proponents of gravitational wave "astronomy" have intentionally misinformed the general public about the crucial issue of detecting gravitational waves (GWs): the transport of energy by GWs is an essentially \*non-linear\* phenomenon [[Ref. 2](#)], which cannot -- not even in principle -- be modeled with the \*linearized approximation\* of General Relativity employing \*flat\* spacetime. Details from Hermann Weyl [[Ref. 3](#)].

Surely GWs exist, as predicted by Einstein's theory, but -- no, they cannot be detected with any device constructed in the framework of the linearized approximation of GR, neither in space [[Ref. 1](#)] nor on Earth (LIGO, VIGRO, GEO, TAMA, and the like).

[http://www.god-does-not-play-dice.net/GW\\_dream.jpg](http://www.god-does-not-play-dice.net/GW_dream.jpg)

**FACT:** The proponents of gravitational wave "astronomy" do not have \*any\* theory of detecting the transport of energy by GWs, as shown in Fig. 11 (link below), p. 13 in [[Ref. 4](#)]:

[http://www.god-does-not-play-dice.net/Fig\\_11.jpg](http://www.god-does-not-play-dice.net/Fig_11.jpg)

NB: I urgently ask two questions:

1. [Who are the individuals](#) supporting LISA Pathfinder ?
2. How many of them will **resign** if the LISA Pathfinder fails to "demonstrate technology for observing gravitational waves from space" [[Ref. 1](#)] ?

Nobody can claim that she/he does not know the insoluble problems with detecting the transport of energy by GWs. Nobody.

It's a scam.

Sincerely,

Dimi Chakalov  
[chakalov.net](http://chakalov.net)

#### References

[Ref. 1] ESA PR 47-2015: LISA Pathfinder en route to gravitational wave demonstration

<http://sci.esa.int/lisa-pathfinder/56969-esa-pr--2015-lisa-pathfinder-en-route-to-gravitational-wave-demonstration/>

"03 December 2015. ESA's LISA Pathfinder lifted off earlier today on a Vega rocket from Europe's spaceport in Kourou, French Guiana, on its way to demonstrate technology for observing gravitational waves from space. Gravitational waves are ripples in the fabric of spacetime, predicted a century ago by Albert Einstein's General Theory of Relativity, published on 2 December 1915. Einstein's theory predicts that these fluctuations should be universal, generated by accelerating massive objects. However, they have not been directly detected to date because they are so tiny."

[Ref. 2] Jose G. Pereira, Gravitational waves: a foundational review, arXiv: 1305.0777v3 [gr-qc],

<http://arxiv.org/abs/1305.0777v3> ; cf. p. 8 at  
<http://www.god-does-not-play-dice.net/Jose.jpg>

[Ref. 3] Hermann Weyl, How Far Can One Get With a Linear Field Theory of Gravitation in Flat Space-Time? American Journal of Mathematics, Vol. 66, No. 4 (Oct., 1944), pp. 591-604.

<http://www.sjcrothers.plasmaresources.com/weyl-1.pdf>

Hermann Weyl: "At its present stage our theory (L) accounts for the force which an electromagnetic field exerts upon matter, but the gravitational field remains a powerless shadow. From the standpoint of **Einstein's theory this is as it should be, because the gravitational force arises only when one continues the approximation beyond the linear stage.** We pointed out above that no remedy for this defect may be found in a gauge invariant gravitational energy-momentum tensor."

[Ref. 4] D. Chakalov, Potential Reality I: Relative Scale Spacetime, viXra: 1410.0194 [vD],

<http://vixra.org/pdf/1410.0194vD.pdf>

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Subject: **LISA Pathfinder is a scam!**

Date: Thu, 3 Dec 2015 18:40:37 +0000

Message-ID:

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LISA Pathfinder is a scam!

<http://www.god-does-not-play-dice.net/scam.pdf>

**Don't ever claim that you knew nothing about it.**

D. Chakalov

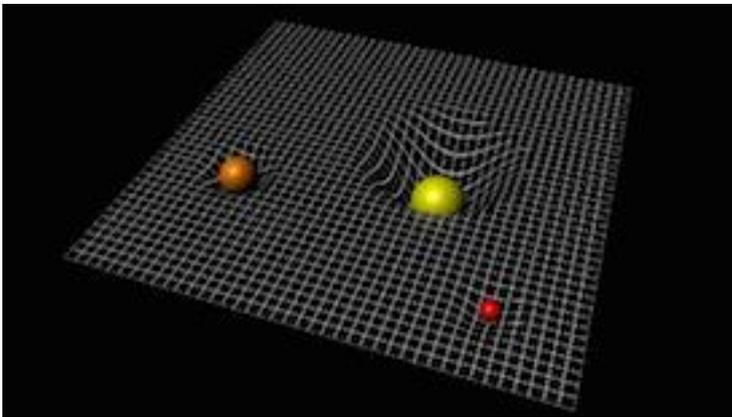
[chakalov.net](http://chakalov.net)

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## NOTE

Here's an excerpt from the official statement "[What LISA Pathfinder is doing and how](#)", by Lisa Pathfinder [Mission Team and Science Team](#): César García Marirrodriga, Paul McNamara, Ian Harrison, Damien Texier, Karsten Danzmann (AEI, Hannover), Charles Dunn (NASA), Oliver Jennrich (ESA), Philippe Jetzer (University of Zurich), Eric Plagnol (APC, Paris), Martijn Smit (SRON, The Netherlands), Carlos Sopena (IEEC, Barcelona), Ira Thorpe (NASA), Stefano Vitale (University of Trento), and Harry Ward (University of Glasgow), from 2 December 2015, posted at <http://sci.esa.int/jump.cfm?oid=56938>:

"Every object that has mass or energy produces gravity. In Albert Einstein's monumental description of gravity, the General Theory of Relativity, the combined gravitational fields of all the celestial objects create an invisible landscape of depressions, referred to as gravitational or potential wells. The steeper the sides of these wells, the stronger the gravitational field."



"Artistic view of massive bodies bending the structure of spacetime.  
Credit: ESA-C.Carreau"

"These invisible contours define how matter moves through space, rather like train tracks guiding a **locomotive**. In the case of general relativity, the paths are called geodesics. For LISA Pathfinder to work **it must detect this motion** (Sic! – D.C.). The spacecraft is therefore equipped with two test masses, which will float inside its body, and the spacecraft will sense their motion relative to each other. The test masses will naturally follow geodesics. If the spacecraft manages to isolate them from all other influences as hoped, then the motion will be purely geodesic and the two test masses will move in perfect synchrony. If there is an external force acting then the test masses will appear to move differently from one another and the spacecraft will measure an **acceleration** (Sic! – D.C.) between them.

"The spacecraft keeps track of the test masses by using an ultrastable laser interferometer. A laser beam is split in two, bounced off the surfaces of the test masses and then recombined. Changes in the interference signal between the beams betray any movement between the two test masses down to a trillionth of a metre (a picometre)."

"Understanding what this relative motion means and making sure that it is coming solely from gravity is the job of the analysis team."



"The LISA Technology Package core assembly, hosting the two test masses and, between them, the optical bench interferometer. Credit: ESA/ATG medialab"

**FACT:** Lisa Pathfinder [Mission Team and Science Team](#) have no theory of detecting the *transport of energy* by GWs: see my email [above](#) and Fig. 11 from [\[Ref. 4\]](#):

[http://www.god-does-not-play-dice.net/Fig\\_11.jpg](http://www.god-does-not-play-dice.net/Fig_11.jpg)

Measuring the relative **distance** between the two test masses, floating inside Lisa Pathfinder, does not constitute any evidence in support of so-called GW "astronomy". Why? Because in GR you cannot treat an invariant spacetime interval (cf. [Wikipedia](#)) between two "test masses" as comprised of **empty** spacetime **devoid** of matter and energy, so that one could "measure" an invariant spacetime interval in such fictitious **empty** spacetime with laser beams (cf. the drawing above). In General Relativity, 'distance' depends on gravitational **energy**, and you need to measure **energy differences**: see the explanation [below](#).

Only you can't measure **energy differences**, and you bloody know it. If you could, you will discover the [gravitational energy](#) capable of **accelerated** "expansion" of spacetime, and eventually resolve "[the worst theoretical prediction in the history of physics!](#)". **Forget it.**

Lisa Pathfinder is a **scam**.

[D. Chkalov](#)

December 4, 2015

Latest update: December 7, 2015, 13:58 GMT

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Subject: **LISA Pathfinder is a scam!**

Date: Fri, 4 Dec 2015 12:32:15 +0000

Message-ID:

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LISA Pathfinder is a scam!

<http://www.god-does-not-play-dice.net/scam.pdf>

Don't ever claim that you knew nothing about it.

D. Chakalov  
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Subject: ESA Science & Technology: Contact Us  
Date: Fri, 4 Dec 2015 11:24:59 +0100 (CET)  
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Thank you for contacting the European Space Agency.

We have received your enquiry.

If you would like to receive regular updates from the ESA Science Programme please visit <http://sci.esa.int/subscribe>

With regards,

The Editorial Team

ESA Science & Technology website

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Subject: Re: **LISA Pathfinder is a scam!**

Date: Fri, 4 Dec 2015 17:07:59 +0000

Message-ID:

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P.S. Check out

<http://www.god-does-not-play-dice.net/scam.jpg>

Explanation and references in

<http://www.god-does-not-play-dice.net/scam.pdf>

Don't ever claim that you knew nothing about it.

D. Chakalov  
[chakalov.net](http://chakalov.net)

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## About the author

My name is Dimi Chakalov (pronounced *tcha-KA-lov*, with an accent on the second syllable). The first time I raised my objections against the major *detector* of GWs, known as LIGO, was in February 2003, in my email to *Nature* and to many "experts" in GR, with subject 'Gravitational waves remain out of reach' and dated Wed, 19 Feb 2003 23:40:26 +0200 (archived at my old website). No reply. Nobody replied to my latest email [above](#) either.

My paper 'Are Gravitational Waves Directly Observable?' was endorsed on Sat, 16 Jul 2005 08:15:16 -0400; see the abstract of [physics/0507133](http://physics/0507133). It was scheduled to appear in the arXiv.org listing after Tue 19 Jul 05 00:00:00 GMT, but was **deleted** by the talibans at arXiv.org without any explanation – **plain brutal censorship**. Since February 2003, I tried to *speak* at four international conferences (not to attend some poster session), but was never allowed to express my detailed criticism of the current *detectors* of GWs, such as LIGO.

Unfortunately, the so-called [Advanced LIGO](#) was completed and the first data run began in September 2015. As of early [November 2015](#), "LIGO's astrophysical sensing range has been encouraging."

But what is "encouraging"? Back in 1981 (cf. [Daniel Kennefick](#)), [Kip Thorne](#) had no difficulty in "finding a taker for a wager that gravitational waves would be detected by the end of the **last century** (Sic! – D.C.). The wager was made with the astronomer Jeremiah Ostriker, one of the better-known critics of the large detectors then being proposed. Thorne was one of the chief movers behind the largest of the new detector projects, the half-billion-dollar Laser Interferometer Gravitational Wave Observatory, or LIGO. He lost the bet, of course."

[Kip Thorne](#) is undoubtedly one of the major advocates for GW "astronomy", but he failed to declare the highest "sensing range" at which the [Advanced LIGO](#) **must** detect GWs, or else the party will be over. According to [Wikipedia](#), the Advanced LIGO "is aimed to achieve design sensitivity in 2019". Surely Kip Thorne and his LIGO colleagues are fluent in GR and know perfectly well that measuring **energy differences**, caused by GWs, is **impossible**: locally, the gravitational energy density ([MTW, p. 467](#)) must be "zero", although it cannot be eliminated over a finite spacetime region (see László Szabados in ref. [4] in [[Ref. 4](#)]).

Why? Look at the "artistic view of massive bodies bending the structure of spacetime" [above](#). Firstly, you **may not** use dead flat spacetime as some "[Newtonian limit](#)" at which gravity is [FAPP](#) absent, yet at some point you could miraculously resurrect it, as shown in [Fig. 11](#): see Hyun Seok Yang, ref. [44] in [[Ref. 4](#)]. And secondly, those "contours" in the drawing [above](#), which supposedly "define how matter moves through space, rather like train tracks guiding a locomotive", cannot **drive** the "locomotive". You need an **engine** for the "locomotive" to move along the "train tracks" (cf. the drawing [above](#)), and as Hermann Weyl explained in 1944 [[Ref. 3](#)], "the gravitational **force** (emphasis mine – D.C.) arises only when one continues the approximation beyond the linear stage". Therefore, the transport of energy by GWs ([Fig. 11](#)) must **necessarily** involve energy **non**-conservation: see ref. [13] in [[Ref. 4](#)].

This is the **engine** of gravity (the "[locomotive](#)"). Einstein dubbed it "a total field of as yet unknown structure" (see ref. [9] in [[Ref. 4](#)]). If treated as a *physical* field, it will immediately lead to "[the worst theoretical prediction in the history of physics!](#)". More from Paul Steinhardt at [YouTube](#) or at [this http URL](#), 01:37 - 02:00 from the timeline.

To sum up, the century-old problem of gravitational energy is perfectly known to every expert in GR. The advocates of GW "astronomy" may explain the [perihelion of Mercury](#) without considering the transport of energy by GWs and their "localization" ([MTW, p. 467](#)), but detecting GWs requires measuring **energy differences** caused by GWs, which is **impossible**: "There is no dynamics within space-time itself: nothing ever moves therein; nothing happens; nothing changes" ([Robert Geroch, p. 18](#)). Thus, the proponents of GW "astronomy" cannot suggest a **chain** of consecutive **changes** of the spacetime **itself**, resulting from energy **non**-conservation (see above) and caused by **energy differences**: see again [Fig. 11](#) and Paul Steinhardt above.

Back to what was known in 1940s: if we apply the full non-linear GR, going "beyond the linear stage" [[Ref. 3](#)], detecting GWs is **impossible**: see ref. [41] in [[Ref. 4](#)]. All members of LIGO "scientific" community and their ESA colleagues [[Ref. 1](#)] know this **fact** bloody well. No, they aren't stupid. [Not at all](#). The so-called LISA Pathfinder is a **scam** that will last until 2019, after which they will ask for *more* money, as Kip Thorne has been doing since 1981.

**BILLIONS** of U.S. dollars and euros – all taxpayers' money – have already been wasted, and even more are scheduled to be wasted. According to [Bernard Schutz](#), by "2020 at least **3-4 billion dollars** (Sic! – D.C.) will have been invested by a dozen national and international scientific organizations in building gravitational wave detectors on the ground and in space."

What can we make from the long tunnels of [LIGO, VIRGO, GEO, TAMA, etc.](#) ? Wine cellars ?

*Ceterum censeo LIGO esse delendam.*

[D. Chakalov](#)

December 4, 2015

Latest update: December 8, 2015, 02:00 GMT

## **Addendum**

People seem to have tacitly accepted that their taxes are being wasted. Who cares about a few billion dollars, given the fact that the military-industrial complex is wasting **trillions** of taxpayers' money for "the war on terror"? Who cares that LIGO "scientific" collaboration will waste a few billion dollars more? Let them have fun and enjoy their binge party. Who cares?

The result from such general attitude 'who cares' is staggering. For example, the James Zadroga 9/11 Health and Compensation Act expired on [September 30, 2015](#), and the petition for its extension was endorsed so far by only [172,660 people](#) (myself included). My 9/11 petition from 2012 collected just [88 signatures](#). People don't care about human lives, why should we expect anyone to care about General Relativity?

Not surprisingly, after I sent my first email on [3 December 2015](#), many of its recipients banned my email address as "spam", and now will most likely try to play Sergeant Schultz: "I hear nothing, I see nothing, I know nothing!"

I expect the same from the talibans at CERN, who ignored the **facts** known since 1911:

[http://www.god-does-not-play-dice.net/Fig\\_8\\_small.jpg](http://www.god-does-not-play-dice.net/Fig_8_small.jpg)

<http://www.god-does-not-play-dice.net/CERN.jpg>

After my second email, they blocked my email address "due to phishing attack":

<http://www.god-does-not-play-dice.net/CERN.pdf>

Do you know what is "phishing"? See the explanation from Wikipedia in [rs\\_spacetime.txt](#). No, I never did any "phishing" and never will, but only suggested to CERN "scholars" to get professional and stop wasting **BILLIONS** of euros – all taxpayers' money – for their so-called "Higgs boson". I feel deeply offended by their brutal primitive **lying** about "phishing attack". Besides, I think the talibans at CERN could have suggested more credible "reason" to block my email address. They should take lesson from Vladimir Putin, as he was **lying** about the [Russian troops](#) in [East Ukraine](#) with unfettered imagination and KGB "creativity", to the best of his intellectual abilities. The talibans at CERN are highly educated people and I do believe they can improve their **lying** with something more "creative" than "[phishing attack](#)", so that they can safely play Sergeant Schultz: "I hear nothing, I see nothing, I know nothing!"

I can say much more about the [€400+ million scam](#), presented to the general public as "LISA Pathfinder" [[Ref. 1](#)], but again, who cares about General Relativity ?

[Matthew 7:6](#).

D.C.

December 4, 2015

Latest update: December 8, 2015, 04:00 GMT

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Subject: Re: **Gravitational-Wave Astronomy: RIP**

Date: Sat, 12 Dec 2015 22:10:08 +0000

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CAM7EkxmA4vJRR3tbS6gSBMn72M\_9oUCtr5iiktaWp\_EH1O1QmQ@mail.gmail.com

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To: Eric Gustafson <[egustafs@ligo.caltech.edu](mailto:egustafs@ligo.caltech.edu)>, [abbott\\_b@ligo.caltech.edu](mailto:abbott_b@ligo.caltech.edu), [weiss@ligo.mit.edu](mailto:weiss@ligo.mit.edu), [anderson\\_s@ligo.caltech.edu](mailto:anderson_s@ligo.caltech.edu), [barish\\_b@ligo.caltech.edu](mailto:barish_b@ligo.caltech.edu), [sarah.gossan@tapir.caltech.edu](mailto:sarah.gossan@tapir.caltech.edu), [gustafson\\_e@ligo.caltech.edu](mailto:gustafson_e@ligo.caltech.edu), JulieHiroto LIGO <[jhiroto@ligo.caltech.edu](mailto:jhiroto@ligo.caltech.edu)>, Kenneth Libbrecht <[kgl@caltech.edu](mailto:kgl@caltech.edu)>, Bob Taylor <[taylor\\_r@ligo.caltech.edu](mailto:taylor_r@ligo.caltech.edu)>, [yamamoto\\_h@ligo.caltech.edu](mailto:yamamoto_h@ligo.caltech.edu), [zweizig\\_j@ligo.caltech.edu](mailto:zweizig_j@ligo.caltech.edu), [swang5@caltech.edu](mailto:swang5@caltech.edu), [zhang\\_l@ligo.caltech.edu](mailto:zhang_l@ligo.caltech.edu), M Zucker <[zucker\\_m@ligo.mit.edu](mailto:zucker_m@ligo.mit.edu)>, Alessandra.Buonanno@aei.mpg.de, Bernard Schutz <[Bernard.Schutz@aei.mpg.de](mailto:Bernard.Schutz@aei.mpg.de)>, B S Sathyaprakash <[B.Sathyaprakash@astro.cf.ac.uk](mailto:B.Sathyaprakash@astro.cf.ac.uk)>, Valerio Faraoni <[vfaraoni@ubishops.ca](mailto:vfaraoni@ubishops.ca)>, Eanna Flanagan <[flanagan@astro.cornell.edu](mailto:flanagan@astro.cornell.edu)>, Kip <[kip@tapir.caltech.edu](mailto:kip@tapir.caltech.edu)>, Clifford Will <[cmw@wuphys.wustl.edu](mailto:cmw@wuphys.wustl.edu)>, Richard Price <[rprice.physics@gmail.com](mailto:rprice.physics@gmail.com)>, Michele Maggiore <[michele.maggiore@unige.ch](mailto:michele.maggiore@unige.ch)>, Jose Geraldo Pereira <[jpereira@ift.unesp.br](mailto:jpereira@ift.unesp.br)>, Warren Johnson <[johnson@ligo.phys.lsu.edu](mailto:johnson@ligo.phys.lsu.edu)>, Robert M Wald <[rmwa@midway.uchicago.edu](mailto:rmwa@midway.uchicago.edu)>, David Shoemaker <[dhs@ligo.mit.edu](mailto:dhs@ligo.mit.edu)>,

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On Sat, 12 Dec 2015 12:47:41 -0800,  
Message-Id: <CF284434-9F2D-413C-B192-743AE6FF0EC0@ligo.caltech.edu>,  
Eric Gustafson <egustafs@ligo.caltech.edu> wrote:

>  
> Dimi,  
> Please remove me from this email list.

You are not stupid, and you know damn well that all this "GW astronomy" is crap. The same applies to [all you colleagues](#).

So don't try to play stupid and talk about "this email list". Check out the facts. If you cannot understand that your "GW astronomy" is red herring, I will gladly help you and expose your ridiculous errors even before my paper is published.

Go ahead. Make your best shot.

D. Chakalov  
[chakalov.net](http://chakalov.net)

On Sat, 12 Dec 2015 11:59:14 +0000, Dimi Chakalov <dchakalov@gmail.com> wrote:

>  
>> **Gravitational-Wave Astronomy: RIP**  
>> by D. Chakalov  
>>  
>> Abstract  
>>  
>> As an epitaph of the project for so-called GW astronomy, I suggest the  
>> **famous saying by Confucius: "The hardest thing of all is to find a black cat**  
>> **in a dark room, especially if there is no cat". Specific examples are drawn**  
>> from LISA Pathfinder, to explain why the so-called GW astronomy was  
>> born dead from the outset.  
>>  
>> Manuscript in preparation, available in February 2016.  
>> ----  
>>  
>> Interested? Check out  
>>  
>> <http://www.god-does-not-play-dice.net/scam.jpg>  
>>  
>> Explanation and references in  
>> <http://www.god-does-not-play-dice.net/scam.pdf>  
>>  
>> Don't ever claim that you knew nothing about it.  
>>  
>> D. Chakalov  
>> [chakalov.net](http://chakalov.net)  
>

---

Subject: Re: **LISA Pathfinder is a scam!**

Date: Tue, 15 Dec 2015 01:22:08 +0200

Message-ID:

CAM7Ekxn=T469sx5tqbWJrPK88xsp9k84jPVMvQTWqgX0-t6Uqg@mail.gmail.com

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Eanna Flanagan <flanagan@astro.cornell.edu>, Richard Price <rprice.physics@gmail.com>, Michele Maggiore <michele.maggiore@unige.ch>, David Shoemaker <dhs@ligo.mit.edu>, Harald Lück <Harald.Lueck@aei.mpg.de>, Luc Blanchet <blanchet@iap.fr>, Masaki Ando <ando@granite.phys.s.u-tokyo.ac.jp>, Edward Porter <porter@apc.in2p3.fr>, Hartmut Grote <hartmut.grote@aei.mpg.de>

On Mon, 14 Dec 2015 09:39:34 -0600,  
Message-Id: <5238BB76-F3ED-4E0D-88EA-534E52A05606@phys.lsu.edu>,  
Warren Johnson <warren.johnson@phys.lsu.edu> wrote:

>  
> I have looked at chakalov.net, and find that you have a new theory of space  
> and time (and everything ?).  
>  
> I am sure that it contradicts everything (facts and laws) that physics and  
> chemistry have learned about this world.

Warren dorogoi,

As I told you before (see my email from Sat, 18 Apr 2015 18:53:38 +0300), you ate totally Russian,

<http://www.god-does-not-play-dice.net/russian.html>

The subject of this email is GW "astronomy": see my abstract and the two links below.

Since you're Russian, you cannot think anymore, so you cannot even look at the FACTS explained in the text at the links below.

Is it too painful, or are you just drunk? Or maybe both?

I hope your colleagues can help you understand the FACTS. I can help you as well, and will gladly expose your ridiculous errors even before my paper is published.

D. Chakalov  
[chakalov.net](http://chakalov.net)

> On Sat, 12 Dec 2015 06:15:54 +0200, Dimi Chakalov <dchakalov@gmail.com>  
> wrote:

>  
> **Gravitational-Wave Astronomy: RIP**  
> by D. Chakalov

>  
> Abstract

>  
> As an epitaph of the project for so-called GW astronomy, I suggest the  
> famous saying by Confucius: "The hardest thing of all is to find a black cat  
> in a dark room, especially if there is no cat". Specific examples are drawn  
> from LISA Pathfinder, to explain why the so-called GW astronomy was  
> born dead from the outset.

>  
> Manuscript in preparation, available by February 2016.

> ----  
>

> Interested? See the links below.  
>  
> D. Chakalov  
> [chakalov.net](http://chakalov.net)  
>  
> On Fri, Dec 4, 2015 at 7:07 PM, Dimi Chakalov <dchakalov@gmail.com> wrote:  
>  
> P.S. Check out  
> <http://www.god-does-not-play-dice.net/scam.jpg>  
>  
> Explanation and references in  
> <http://www.god-does-not-play-dice.net/scam.pdf>  
>  
> Don't ever claim that you knew nothing about it.  
>  
> D. Chakalov  
> [chakalov.net](http://chakalov.net)  
>

---

## Comment

Check out the holomovement of fish at [YouTube](#), and ask yourself what phenomenon could bootstrap the set of fish into a [school of fish](#), in such way that every local fish can [negotiate](#) its **next** state (in terms of energy-momentum and angular momentum) to be [EPR-like correlated](#) with 'the rest of fish', and **vice versa**. The holomovement can also be seen in centipede's walk, as it moves its legs in a wave-like undulation along its body ([YouTube](#)).

So the [LISA Pathfinder](#) must detect the **flux** of energy and momentum, producing stresses (see [scam.jpg](#)), **from the entire "school of fish" to some GW detector** at particular "fish". Surely GWs exist, but their detector cannot be based on the linearized approximation of GR [[Ref. 2](#)], as Hermann Weyl stressed in 1944 [[Ref. 3](#)] – the proper GW detector, installed at particular "fish", **should be able to detect the flux** of energy-momentum and angular momentum from the entire "[school of fish](#)", leading to **self-action** of the GW detector. By the same token, the **self-acting** GW detector would detect the **flux** of [gravitational energy](#) capable of **accelerated** "expansion" of spacetime, and we will resolve "[the worst theoretical prediction in the history of physics!](#)".

[Forget it](#). All this GW "astronomy" had to be terminated by [August 2002](#) at the latest. Details in my forthcoming paper, entitled: **Gravitational-Wave Astronomy: RIP**.

D. Chakalov  
December 15, 2015  
Latest update: December 16, 2015, 08:00 GMT

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Subject: Re: **Gravitational-Wave Astronomy: RIP**

Date: Tue, 15 Dec 2015 16:43:06 +0000

Message-ID:

CAM7Ekxk=r-k+9YkWnHixKG4fC7VrjvYB4S5TikxsZXBZGrNm1g@mail.gmail.com

From: Dimi Chakalov <dchakalov@gmail.com>

To: Eric Gustafson <egustafs@ligo.caltech.edu>, abbot\_b@ligo.caltech.edu, weiss@ligo.mit.edu, anderson\_s@ligo.caltech.edu, barish\_b@ligo.caltech.edu, sarah.gossan@tapir.caltech.edu, gustafson\_e@ligo.caltech.edu, JulieHiroto LIGO <jhiroto@ligo.caltech.edu>, Kenneth Libbrecht <kgl@caltech.edu>, Bob Taylor <taylor\_r@ligo.caltech.edu>, yamamoto\_h@ligo.caltech.edu, zweizig\_j@ligo.caltech.edu, swang5@caltech.edu, zhang\_l@ligo.caltech.edu, M Zucker <zucker\_m@ligo.mit.edu>, Alessandra.Buonanno@aei.mpg.de, Bernard Schutz <Bernard.Schutz@aei.mpg.de>, B S Sathyaprakash <B.Sathyaprakash@astro.cf.ac.uk>, Valerio Faraoni <vfaraoni@ubishops.ca>, Eanna Flanagan <flanagan@astro.cornell.edu>, Kip <kip@tapir.caltech.edu>, Clifford Will <cmw@wuphys.wustl.edu>, Richard Price <rprice.physics@gmail.com>, Michele Maggiore <michele.maggiore@unige.ch>, Jose Geraldo Pereira <jpereira@ift.unesp.br>, Warren Johnson <johnson@ligo.phys.lsu.edu>, Robert M Wald <rmwa@midway.uchicago.edu>, David Shoemaker <dhs@ligo.mit.edu>, David Garfinkle <garfinkl@oakland.edu>, Harald Lück <Harald.Lueck@aei.mpg.de>, Luc Blanchet <blanchet@iap.fr>, Masaki Ando <ando@granite.phys.s.u-tokyo.ac.jp>, Edward Porter <porter@apc.in2p3.fr>, Hartmut Grote <hartmut.grote@aei.mpg.de>, César García Marirrodriga <Cesar.Garcia@esa.int>, Paul McNamara <paul.mcnamara@esa.int>, Ian Harrison <ian.harrison@esa.int>, Damien Texier <contactesa@esa.int>, Karsten Danzmann <karsten.danzmann@aei.mpg.de>, Charles Dunn <Charles.E.Dunn@jpl.nasa.gov>, Oliver Jennrich <oliver.jennrich@esa.int>, Philippe Jetzer <jetzer@physik.uzh.ch>, Eric Plagnol <eric.plagnol@apc.univ-paris7.fr>, Martijn Smit <m.j.smit@uu.nl>, Carlos Sopuerta <sopuerta@ieec.uab.es>, Ira Thorpe <james.i.thorpe@nasa.gov>, Benjamin Knispel <benjamin.knispel@aei.mpg.de>, Martin Hewitson <hewitson@aei.mpg.de>, Bianca Hurlermann <bianca.hurlermann@zarm.uni-bremen.de>, Claus Lämmerzahl <claus.laemmerzahl@zarm.uni-bremen.de>, Dominik Schwarz <dschwarz@physik.uni-bielefeld.de>, Claudia Mignone <ClaudiaMignone@gmail.com>, Hamish Johnston <hamish.johnston@iop.org>, tushna.commissariat@iop.org, louise.mayor@iop.org, pwld@iop.org, Michael Banks <michael.banks@iop.org>, Steven Weinberg <weinberg@physics.utexas.edu>, Jeremiah P Ostriker <ostriker@princeton.edu>, SciTech.Editorial@esa.int, john.g.baker@nasa.gov, Joan Centrella <Joan.Centrella@nasa.gov>, Mark Hannam <markodh@googlemail.com>, robin.t.stebbins@nasa.gov, Karen Smale <Karen.m.Smale@nasa.gov>, Blacks in Government NASA Goddard <notoya.r.russell@nasa.gov>, Stephen Merkowitz <stephen.m.merkowitz@nasa.gov>, Meredith Gibb <meredith.gibb@nasa.gov>, LSC Spokesperson <reitze@phys.ufl.edu>, Jorge Pullin <pullin@lsu.edu>, Gabriela González <gonzalez@lsu.edu>

<http://www.god-does-not-play-dice.net/Schutz.pdf>

D. Chakalov  
[chakalov.net](http://chakalov.net)

On Sat, 12 Dec 2015 22:10:08 +0000, Dimi Chakalov <dchakalov@gmail.com> wrote:  
[snip]