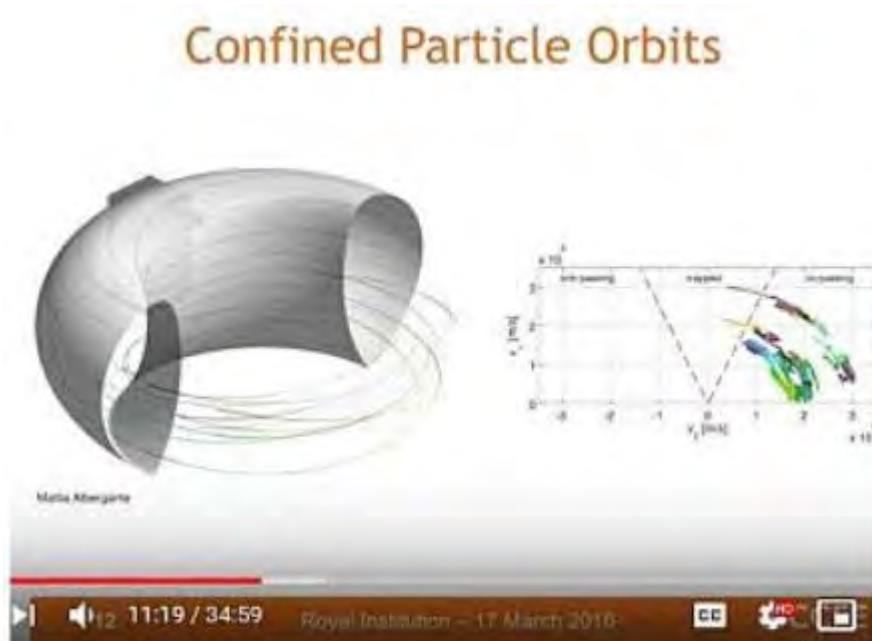


Can you make ITER burn like a candle?

On Tuesday, 13 December 2022, the National Ignition Facility at the Lawrence Livermore National Laboratory (LLNL) in California announced their burst of nuclear fusion produced with a blast of 192 powerful lasers. Essentially, it's like a miniscule [H-bomb](#). According to *NY Times* from [13 December 2022](#): "In a brief moment lasting less than 100 trillionths of a second (*Sic!* - D.C.), 2.05 mega joules of energy bombarded the hydrogen pellet [the size of 4.4 mm]. Out flowed a flood of neutron particles, which carried about 3 mega joules of energy, a factor of 1.5 in energy gain. But it will take quite a while before fusion becomes available on a widespread, practical scale, if ever. "Probably decades," Kimberly S. Budil, the director of Lawrence Livermore, said during the Tuesday news conference."

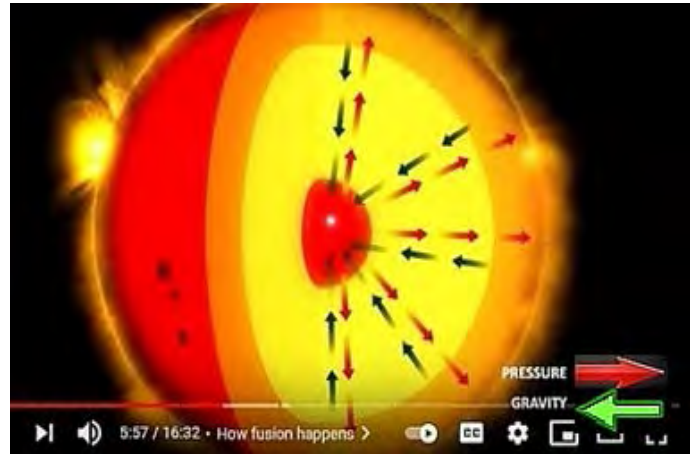
First, [ITER has entirely different design](#). Moreover, the crucial question remains unsolved: how can you burn nuclear fusion like a candle ([p. 2](#))?



The proponents of so-called [ITER](#) hope to reproduce the effects of "apples" ([quantum tunneling](#)) with some *very hot* "oranges", and they want [over €22 billion](#) – our money taken from our taxes – to get their Barbie.

Are we so stupid and gullible?

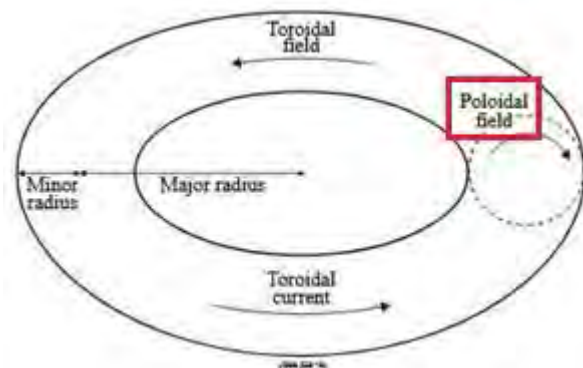
To begin with, the crucial effects from quantum tunneling ([Wikipedia](#)) *cannot* be substituted with a pressure cooker. The confining force of Sun's gravity is *completely different* from the attractive force between planets. Forget the pressure cooker. It's not even wrong. You need [quantum gravity](#).



NB: The proponents of so-called [ITER](#) have to deliver a fully controllable cycle ($t_1 \rightarrow t_4$), such that ITER will *pulsate* with particular frequency:

1. [Burst of nuclear fusion](#) at t_1 .
2. Distortion of the parameters of the plasma at t_2 .
3. Full recovery of the conditions prior to t_1 at t_3 .
4. Next burst of nuclear fusion at t_4 , *da capo al fine*.

Regarding the confined particle orbits: what can you suggest to enhance the [transversal rotation](#) of the plasma donut?



See the "confined" orbits [above](#) Fig. 3.1 at p. 13 by [John Wesson](#)

What "poloidal" field could possibly bootstrap the rotating plasma *en bloc* to create the fully controllable cycle ($t_1 \rightarrow t_4$) [above](#)? Can you create a [standing wave](#) that will "pulsate" with the frequency ($t_1 \rightarrow t_4$) [above](#)?

It's a gamble — with our money — that depends on the *unknown* unknown.

The fact of the matter is this: there is no way to reproduce the effects of “apples” ([quantum tunneling](#)) with some *very hot* “oranges”. Forget it.

Billions and BILLIONS of euros — our money earned with hard labor — will be wasted. There is nothing I can do to stop this [pathetic exercise](#). Sorry.

D. Chkalov

<https://chkalov.net/#electricity>

2 February 2022

Latest update: 13 December 2022, 22:52 GMT

Billions and BILLIONS of euros — our money earned with hard labor — will be wasted. There is nothing I can do to stop this pathetic exercise. This is how ITER looks today, near Saint-Paul-lez-Durance in France:



What can we make from these buildings? Wine cellars maybe?

Send your suggestions to ENER-D4-SECRETARIAT@ec.europa.eu,
cab-public@iter.org, itercommunications@iter.org,
renatas.mazeika@ec.europa.eu, ian.chapman@ukaea.uk,
nick.holloway@ukaea.uk, and tim.luce@iter.org.



Dimi Chakalov <dchakalov@gmail.com>

Re: ITER is doomed to fail, miserably.

Dimi Chakalov <dchakalov@gmail.com>

Sat, Jul 17, 2021 at 12:54 PM

To: Renatas.MAZEIKA@ec.europa.eu, Michel.Claessens@ec.europa.eu, ENER-D4-SECRETARIAT@ec.europa.eu, Gieljan.deVries@euro-fusion.org, Victor Armand Malka <victor.malka@weizmann.ac.il>, Toshiki Tajima <ttajima@uci.edu>, Sandra Chapman <s.c.chapman@warwick.ac.uk>, Pietro Barabaschi <pietro.barabaschi@jt60sa.org>, Duarte Borba <duarte.borba@euro-fusion.org>, Anne White <whitea@psfc.mit.edu>, Richard Pitts <richard.pitts@iter.org>, Robert Bingham <robert.bingham@strath.ac.uk>, Mark Koepke <mark.koepke@mail.wvu.edu>, John Palastro <jpal@l1e.rochester.edu>, Gianfranco Federici <gianfranco.federici@euro-fusion.org>, Rudolf Neu <rudolf.neu@tum.de>, Hartmut Zohm <hartmut.zohm@ipp.mpg.de>, Xiaodong Zhang <xdzhang@ipp.ac.cn>, Baonian Wan <bnwan@ipp.ac.cn>, Yuntao Song <songyt@ipp.ac.cn>, Xinchao Wu <xcwu@ipp.ac.cn>, Gunsu Yun <gunsu@postech.ac.kr>, jkl@postech.ac.kr, arakawa@ecs.shimane-u.ac.jp, cab-simson-contact@ec.europa.eu, ditte.juul-joergensen@ec.europa.eu, Klaus-Dieter.Borchardt@ec.europa.eu, Massimo.Garribba@ec.europa.eu, Brendan.Devlin@ec.europa.eu, director@acer.europa.eu, alberto.pototschnig@acer.europa.eu, caoimhin.smith@dcae.gov.ie, itercommunications@iter.org, cab-public@iter.org, iopcd@iter.org, caroline.vaxelaire@iter.org, ian.chapman@ukaea.uk, nick.holloway@ukaea.uk, d.gann@imperial.ac.uk, michael.banks@iop.org

P.S. Please see my proposal attached, from p. 9 (last) in
<http://www.god-does-not-play-dice.net/explanation.pdf>
 D.C.

On Tue, 4 Aug 2020 18:12:53 +0100,
 Dimi Chakalov <dchakalov@gmail.com> wrote:
 [snip]

ITER.jpg

182K

Can ITER burn nuclear fuel like a candle, for at least 6 months? After “more than 60 years of research on fusion science and technology” (cf. the letter at p. 8 above), nobody managed to produce some equation involving the main factors of nuclear fusion at ITER (the triple product of density, temperature, and confinement time). All their models of “confined particle orbits” (cf. Ian Chapman at p. 3) are for the birds. ITER proponents have no idea *whatsoever* how to make ITER burn nuclear fuel like a candle. They only want to gamble our money taken from our taxes: billions, and billions, and BILLIONS of Euros.

The European Commission Directorate D - Nuclear energy, safety and ITER - should stop any financing of ITER, until they deliver their homework. Not even a cent more. Let the other signatories to the ITER Agreement – China, India, Japan, Korea, Russia and the United States – pay for the juvenile dreams of ITER supporters.

Dimitar G. Chakalov

17 July 2021, 12:12 GMT



Dimi Chakalov <dchakalov@gmail.com>

Re: Nuclear Fusion is Impossible.

Dimi Chakalov <dchakalov@gmail.com>

Thu, Nov 17, 2022 at 7:38 PM

To: Renatas.MAZEIKA@ec.europa.eu, Michel.Claessens@ec.europa.eu, ENER-D4-SECRETARIAT@ec.europa.eu, Gieljan.deVries@euro-fusion.org, Victor Armand Malka <victor.malka@weizmann.ac.il>, ttajima@uci.edu, Sandra Chapman <s.c.chapman@warwick.ac.uk>, pietro.barabaschi@jt60sa.org, duarte.borba@euro-fusion.org, Anne White <whitea@psfc.mit.edu>, Richard Pitts <richard.pitts@iter.org>, robert.bingham@strath.ac.uk, mark.koepke@mail.wvu.edu, jpal@lle.rochester.edu, gianfranco.federici@euro-fusion.org, rudolf.neu@tum.de, Hartmut Zohm <hartmut.zohm@ipp.mpg.de>, xdzhang@ipp.ac.cn, Baonian Wan <bnwan@ipp.ac.cn>, songyt@ipp.ac.cn, Xinchao Wu <xcwu@ipp.ac.cn>, Gunsu Yun <gunsu@postech.ac.kr>, jkl@postech.ac.kr, arakawa@ecs.shimane-u.ac.jp, cab-simson-contact@ec.europa.eu, ditte.juul-joergensen@ec.europa.eu, Klaus-Dieter.Borchardt@ec.europa.eu, Massimo.Garribba@ec.europa.eu, Brendan.Devlin@ec.europa.eu, director@acer.europa.eu, alberto.pototschnig@acer.europa.eu, caoimhin.smith@dcae.gov.ie, itercommunications@iter.org, cab-public@iter.org, iopcd@iter.org, caroline.vaxelaire@iter.org, ian.chapman@ukaea.uk, nick.holloway@ukaea.uk, d.gann@imperial.ac.uk, michael.banks@iop.org, michel.laberge@generalfusion.com, mike.donaldson@generalfusion.com, David Kirtley <inquiries@helionenergy.com>, pr@brilliant.org

P.S. See an excerpt (Earth.jpg attached) from pp. 21-22 in

<http://chakalov.net/Newton.pdf>

Will be happy to elaborate.

D.C.

On Thu, Nov 17, 2022 at 2:51 AM, Dimi Chakalov <dchakalov@gmail.com> wrote:

>

> Ladies and Gentlemen:

>

> I mentioned your project at p. 21 in

> <http://chakalov.net/Newton.pdf>

>

> Sincerely,

> Dimi Chakalov

> <http://chakalov.net/#reports>

Excerpt from pp. 21-22 in <http://chakalov.net/Newton.pdf>

We can literally [save our planet](#).

My project is presented in [Proposal.rar](#). The alternative project called ‘nuclear fusion’ *cannot* operate “like a diesel engine” (Mike Donaldson) to produce net energy gain, firstly because it lacks the crucial [quantum tunneling](#). Forget it.



You can't replace the *forceless* quantum “apples” ([quantum tunneling](#)) with the enormous pressure and immense temperature in some classical “oranges”. You can't reproduce the stellar nucleosynthesis on Earth. Read [explanation.pdf](#) and [ITER.pdf](#).

Gravity produces confining force in Sun's plasma, which is *completely* different from the simple attractive force between planets. You can't fool Nature.

We need [quantum gravity](#) to understand the confining force in Sun's plasma and the formation and evolution of galaxies, because the majority of mass in galaxies is made up of “dark matter” (p. 8): “galaxies could not have formed as they have, or rotate as they are seen to, unless they contain far more mass than can be directly observed” (Wikipedia). This is why debunking the alleged ‘nuclear fusion’ on Earth (p. 21) is crucially important. We need to unravel the quantum-gravitational [fifth force](#)². Do not play poker with taxpayers' money.



Dimi Chakalov <dchakalov@gmail.com>

Re: ITER is doomed to fail, miserably.

Dimi Chakalov <dchakalov@gmail.com>

Mon, Nov 21, 2022 at 3:45 PM

To: Renatas.MAZEIKA@ec.europa.eu, ENER-D4-SECRETARIAT@ec.europa.eu, victor.malka@weizmann.ac.il, ttajima@uci.edu, s.c.chapman@warwick.ac.uk, pieter.barabaschi@jt60sa.org, duarte.borba@euro-fusion.org, whitea@psfc.mit.edu, tim.luce@iter.org, richard.pitts@iter.org, robert.bingham@strath.ac.uk, mark.koepke@mail.wvu.edu, jpal@lle.rochester.edu, gianfranco.federici@eurofusion.org, rudolf.neu@tum.de, hartmut.zohm@ipp.mpg.de, xdzhang@ipp.ac.cn, bnwan@ipp.ac.cn, songyt@ipp.ac.cn, xcwu@ipp.ac.cn, gunsu@postech.ac.kr, jkl@postech.ac.kr, arakawa@ecs.shimane-u.ac.jp, cab-simsoncontact@ec.europa.eu, ditte.juul-joergensen@ec.europa.eu, Massimo.Garribba@ec.europa.eu, Brendan.Devlin@ec.europa.eu, director@acer.europa.eu, alberto.pototschnig@acer.europa.eu, caoimhin.smith@dcae.gov.ie, itercommunications@iter.org, cab-public@iter.org, iopcd@iter.org, caroline.vaxelaire@iter.org, ian.chapman@ukaea.uk, nick.holloway@ukaea.uk, d.gann@imperial.ac.uk, michael.banks@iop.org, michel.laberge@generalfusion.com, mike.donaldson@generalfusion.com, inquiries@helionenergy.com

P.S. No reply to my email from **July 17, 2021** has been received.

See Earth.jpg (attached) at <http://chakalov.net/Earth.jpg>

and pp. 21-22 in <http://chakalov.net/Newton.pdf>

Don't ever think that we will let you waste BILLIONS of euros.

D.C.

On Sat, Jul 17, 2021 at 12:54 PM, Dimi Chakalov <dchakalov@gmail.com> wrote:

[snip]

Excerpt from pp. 21-22 in <http://chakalov.net/Newton.pdf>

We can literally save our planet.

My project is presented in [Proposal.rar](#). The alternative project called 'nuclear fusion' *cannot* operate "like a diesel engine" (Mike Donaldson) to produce net energy gain, firstly because it lacks the crucial quantum tunneling. Forget it.



No, you can't replace the *forceless* quantum "apples" (quantum tunneling) with enormous pressure and immense temperature in classical "oranges". No, you can't reproduce the stellar nucleosynthesis. ITER is €22 B Titanic. Read [explanation.pdf](#) and [ITER.pdf](#).

Quantum gravity creates the *confining force* in Sun's plasma. It is **completely** different from the attractive force between planets. No, you can't fool Nature.

We need quantum gravity ² to understand both the confining force in Sun's plasma and the formation and evolution of galaxies. The majority of mass in galaxies is made up of "dark matter" (p. 8): "galaxies could not have formed as they have, or rotate as they are seen to, unless they contain far more mass than can be directly observed" (Wikipedia). This is why debunking the alleged 'nuclear fusion' on Earth (p. 21) is crucially important. We need to unravel the quantum-gravitational fifth force ². Do not play poker with taxpayers' money.

If the Heraclitean Time in the quantum world is RS-deflated relative to Alice (Fig. F), she will consider it terribly "small" due to Heisenberg's $\Delta t \approx \hbar/\Delta E$, yet in the quantum world Δt is **flexible** and "large" enough to facilitate the quantum "apples" (p. 21) with the *forceless* quantum tunneling. Forget ITER.



Dimi Chakalov <dchakalov@gmail.com>

"Probably decades," Kimberly S. Budil.

Dimi Chakalov <dchakalov@gmail.com>

Wed, Dec 14, 2022 at 11:00 AM

To: Kim Budil <bishop33@llnl.gov>

Cc: Renatas.MAZEIKA@ec.europa.eu, Michel.Claessens@ec.europa.eu, ENER-D4-SECRETARIAT@ec.europa.eu, Gieljan.deVries@euro-fusion.org, Victor Armand Malka <victor.malka@weizmann.ac.il>, ttajima@uci.edu, s.c.chapman@warwick.ac.uk, pietro.barabaschi@jt60sa.org, duarte.borba@euro-fusion.org, whitea@psfc.mit.edu, tim.luce@iter.org, richard.pitts@iter.org, robert.bingham@strath.ac.uk, mark.koepke@mail.wvu.edu, jpal@lle.rochester.edu, gianfranco.federici@euro-fusion.org, rudolf.neu@tum.de, hartmut.zohm@ipp.mpg.de, xdzhang@ipp.ac.cn, bnwan@ipp.ac.cn, songyt@ipp.ac.cn, xcwu@ipp.ac.cn, gunsu@postech.ac.kr, jkl@postech.ac.kr, arakawa@ecs.shimane-u.ac.jp, cab-simson-contact@ec.europa.eu, ditte.juul-joergensen@ec.europa.eu, Klaus-Dieter.Borchardt@ec.europa.eu, Massimo.Garribba@ec.europa.eu, Brendan.Devlin@ec.europa.eu, director@acer.europa.eu, alberto.pototschnig@acer.europa.eu, caoimhin.smith@dccae.gov.ie, itercommunications@iter.org, cab-public@iter.org, iopcd@iter.org, caroline.vaxelaire@iter.org, ian.chapman@ukaea.uk, nick.holloway@ukaea.uk, d.gann@imperial.ac.uk, michael.banks@iop.org, michel.laberge@generalfusion.com, mike.donaldson@generalfusion.com, inquiries@helionenergy.com

On Tuesday, 13 December 2022, the National Ignition Facility at the Lawrence Livermore National Laboratory (LLNL) in California announced their burst of nuclear fusion produced with a blast of 192 powerful lasers. Essentially, it's like a miniscule H-bomb. It will take quite a while before fusion becomes available on a widespread, practical scale, if ever. "Probably decades," Kimberly S. Budil, the director of Lawrence Livermore, said on Tuesday, 13 December 2022.

--

Dear Dr. Budil,

Your miniscule H-bomb is yet another, and terribly costly, step toward the dead-end.

Your colleagues at ITER will waste over 22 billion EUR. How much are you prepared to waste? Another 2.5 billion USD? Because you can't fool Nature:

<https://chakalov.net/ITER.pdf>

Sure enough, you and your colleagues will ignore this warning. Just keep it in your files.

Sincerely,

D. Chakalov

<https://chakalov.net/#electricity>