

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.

A star is drawing on some vast reservoir of energy by means unknown to us.
Sir Arthur Eddington, *The Internal Constitution of the Stars*, 1920, p. 298.

Something unknown is doing we don't know what – that is what our theory amounts to.

Sir Arthur Eddington, *The Nature of the Physical World*, 1926, p. 291.

Excerpts from *Can We Replicate Stellar Nucleosynthesis?*

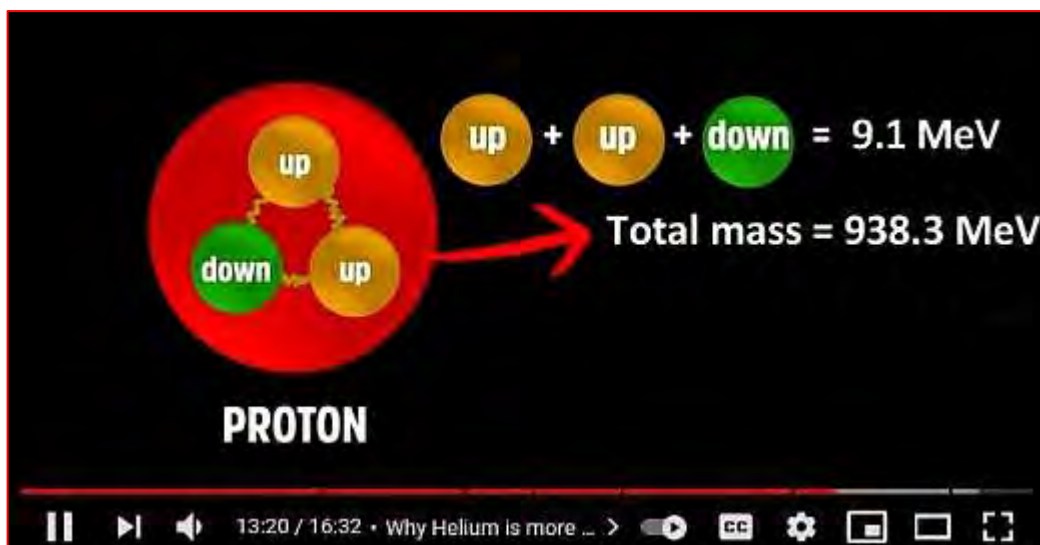
D. Chakalov
chakalov.net

People believe they know how the Sun fuses 620 million metric tons of hydrogen each second ([Wikipedia](https://en.wikipedia.org/wiki/Solar_fusion)), yet still cannot reproduce it. Can you reproduce apples with “very hot” oranges?

The first off puzzle in Sun’s engine is [quantum tunneling](#) in the [presence of gravity](#).

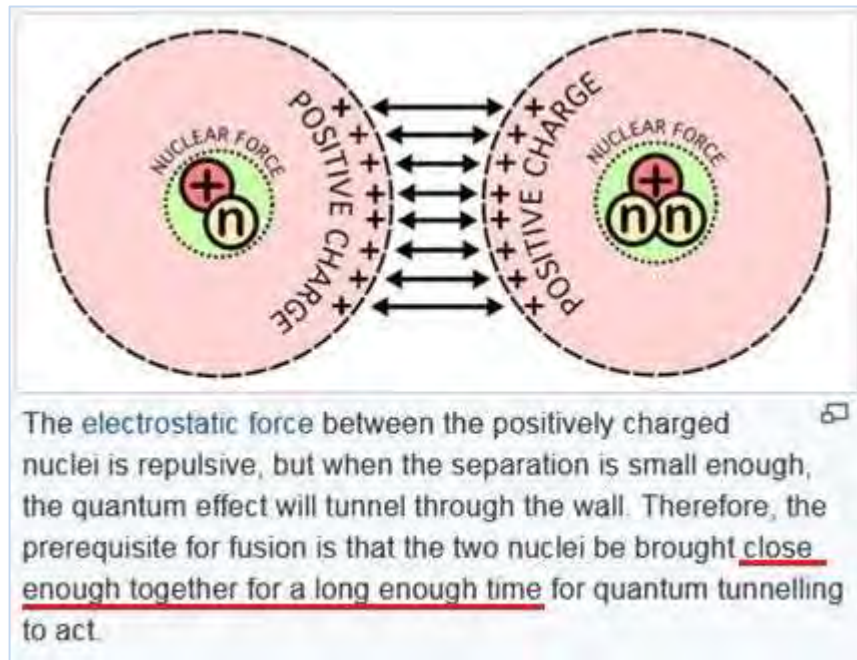


How the Sun works: Fusion and Quantum Tunneling



Why does the Sun shine? What is building up protons ([Slide 10](#))?

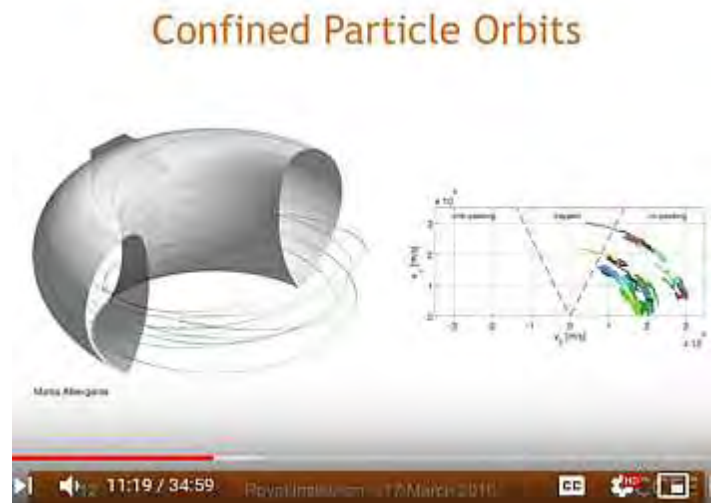
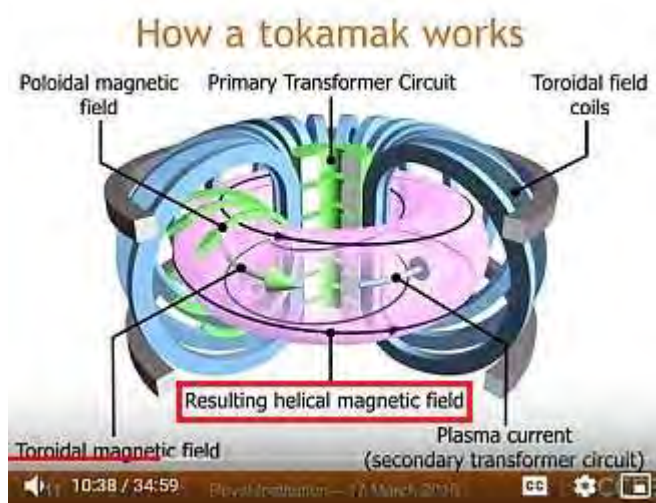
Recall that quantum tunneling ([Wikipedia](#)) is not caused by brutal force. The quantum tunneling is *absolutely* essential for Sun’s engine, and it cannot be substituted with high temperature and pressure. You can only heat up the plasma “to about 100,000,000 K” ([Encyclopedia Britannica](#)). So what? Can you reproduce apples with some “very hot” oranges? For if you do not use quantum tunneling and bet *only* on the two conditions “close enough together for a long enough time” (read [Wikipedia](#) below), you can only make **H-bombs**.



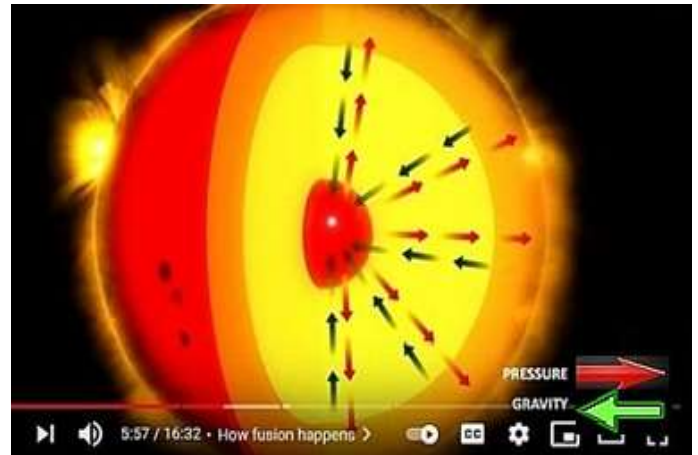
As explained in [Wikipedia](#), “temperatures needed to overcome the Coulomb barrier turn out to be **smaller** than expected due to quantum mechanical tunneling”; recall the [Gamow factor](#).

But we need [quantum gravity](#) to eventually understand how quantum tunneling works in the presence of gravity, and then model quantum tunneling in [plasma](#) under **strong** gravity and magnetic fields. However, we don’t know the origin of gravity and inertia in the first place.

People bluntly ignore the warning by Sir Arthur Eddington (read [above](#)) and invest **billions** of euros – all taxpayers’ money – for their Barbie, such as [ITER in France](#) and [Wendelstein 7-X](#). Let me be a bit more specific. Look at the “resulting helical magnetic field” yielding “confined particle orbits” below, from Ian Chapman. Where is the crucial quantum tunneling ([Wikipedia](#))?



No, you cannot put the Sun in a “magnetic bottle”, like in a pressure cooker.



Again, we [do not understand](#) quantum entanglement and tunneling under **very strong gravity**. In the first place, we believe stars are created from clumps of dust in [molecular clouds](#) by gravity, but what if gravity has two opposite, tug-of-war manifestations (physicists call them “[dark matter](#)” and “[dark energy](#)”) in dynamic equilibrium? We do not accept “[mystery mater](#)”.

Sir Arthur Eddington suggested the mechanism of nuclear fusion in stars in 1920 ([Wikipedia](#)), and Friedrich Hund discovered the [quantum tunneling](#) in 1926. Since the nucleons are quantum objects, “the inclusion of quantum mechanics is therefore necessary for proper calculations” ([Wikipedia](#)). The crux of the matter was explained by [Werner Heisenberg](#) in 1958: the so-called ‘[quantum state](#)’ is “just in the middle between possibility and reality”. Earlier, he famously stressed (*Zeitschrift für Physik* **43** (1927) 172-198, [23 March 1927](#)): “Die Bahn entsteht erst dadurch, daß wir sie beobachten.” So, if we look at the macroscopic trajectory of a particle ([Slide 7](#)), we imagine that **this wave-and-particle** can “overcome” the Coulomb barrier [above](#), which is called [quantum tunneling](#) ([Frank Trixler](#)).

Well, the *intact* ‘quantum state’ (dubbed [John](#)) can *effortlessly* show up ‘outside the barrier’. Otherwise we can’t have [stellar nucleosynthesis](#). Forget those “confined particle orbits” from [Ian Chapman](#) – the quantum tunneling cannot be substituted with temperature and pressure, like the pressure cooker above. Without quantum tunneling, you can only make [H-bombs](#).

You may not replace quantum apples with “very hot” classical oranges: read p. [12](#) in [facts.pdf](#).

NB: You need quantum tunneling for [your nuclear fusion](#). Even if you manage to “enhance” the so-called confinement time to “[around four seconds](#)”, it won’t work. You may only achieve sporadic and unsustainable bursts of nuclear fusion in ITER’s ‘[pressure cooker](#)’: the additional guiding “[vector](#)” from [quantum tunneling](#) is **missing**. Can’t fool Nature. Details upon [request](#).

7 July 2021, 23:55 GMT

For the record

Today is January 7, 2022. The first contribution to *The Physics of Life* was made by Erwin Schrödinger in [1944](#), in which he concluded that “we must be prepared to find a new type of physical law.” My [invitation for contribution](#) was sent to many physicists and mathematicians, over six months ago, and I offered them to prove my ‘new type of physical law’ **false** (p. [18](#)). As of today, nobody accepted my invitation for contribution, nor tried to prove my ‘new type of physical law’ **false** (*ibid.*). Physicists are scared to even *think* about [Time and gravity](#). Sorry.

7 January 2022, 15:40 GMT

Questions and Answers

Q1: Can you explain the details about [ITER](#)?

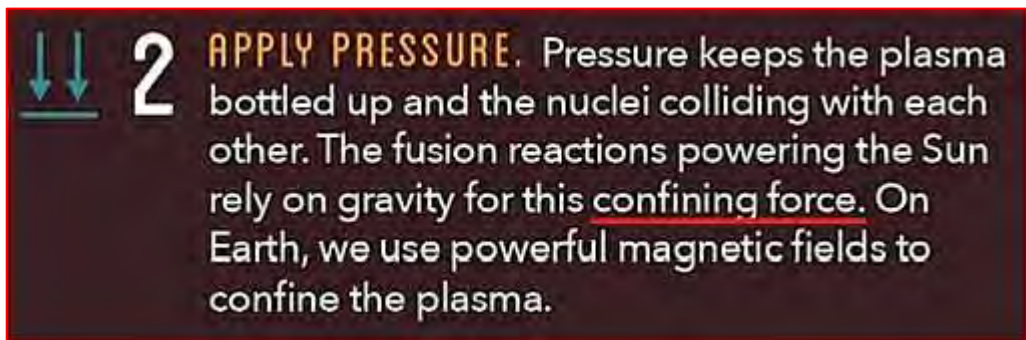
A1: ITER may only look “exciting”, like a **multi-billion-euro** Titanic. I will be glad to explain. But first, you will have to do some work to qualify: see (1)-(3) below.

1. Read carefully Addendum 3 at pp. 28-31 in <http://www.god-does-not-play-dice.net/SE.pdf> and pp. 1-6 in <http://www.god-does-not-play-dice.net/facts.pdf> and http://www.god-does-not-play-dice.net/T_V_S.jpg http://www.god-does-not-play-dice.net/kip_slide_5.jpg

2. Write up a brief report and upload it, from your academic institution, to <https://arxiv.org/archive/gr-qc> <https://arxiv.org/help/submit>

3. Send me the link to your report in arXiv.org.

I will reply within 5 working days and will send you the requested information. It boils down to the conditions to overcome the **Coulomb barrier**. “Maybe gravity?” ([YouTube](#), 2:12-2:18). Like the “gravity” from your [GR textbooks](#)? No, it won’t work. To quote from the [U.S. DoE](#):



How is Sun’s **gravity** (see [above](#)) producing **confining force** that is **completely** different (Sic!) from the attractive force between planets? How is this brand new **confining force** coupled to the guiding “vector” from [quantum tunneling](#)? Can we “insert” gravity in the quantum word?

Only the **self-acting** mechanism of quantum gravity. It is not like [Baron Munchausen](#). Read the last paragraph at p. 13 in [The Physics of Life](#).

Forget [GW parapsychology](#). Forget ITER’s ‘[pressure cooker](#)’ – it is a **multi-billion-euro** Titanic.

The first off challenge is to understand the *force* of gravity; for example, in [Earth tides](#). The [Christoffel symbols](#) cannot rotate the Earth and pull up [rocks](#). What is the **energy** from [gravity](#)? The second task is to explain ‘the only mystery in QM’: quantum tunneling in the macroscopic trajectory of a particle ([Slide 7](#)). Read the last paragraph at p. 26 in [The Physics of Life](#). This is how ‘the quantum state’ (read [above](#)) can *effortlessly* show up outside the **Coulomb barrier**. Otherwise you cannot have sustained nuclear fusion on Earth.

However, we cannot make any progress today, because physics is vehemently contaminated with [GW parapsychology](#). Physicists are scared to even *think* about Time and gravity. Sorry.