Gravity Control and Quantum Physics Applications to Space Travel

(Highlights from the Theory, Experiment and Technology)

by Lucian M. Ionescu

With contributions by David Alzofon

([Silicon Valley Conference](#), San Jose, Sept. 2022)

Hello, I am Prof. Dr. Lucian M. Ionescu

I am a mathematics professor doing research in Mathematical-Physics, chasing what Gravity is for more than 40 years …

- Math M.S. to understand General Relativity and Quantum Mechanics
- Ph. D. In Math to understand Feynman diagrams, Category Theory for Spin Networks etc.
- Self taught physics to understand Quark Line Diagrams and the Standard Model of Elementary Particle Physics.

When a teenager I read about UFOs and liked SciFi a lot …

Unidentified (no license plates!?) Flying Objects

- In 1995 my wife and I have seen a huge TR3B gliding slowly over our house in Manhattan, KS (I was in a Ph. D. program at K-State) …
- How many of you have seen an Unidentified Space Ship?
  [story: from 12 random people on the beach, 4 have seen a UFO]

"We all know UFOs are real. …" Astronaut Dr. Edgar Mitchel

The majority of UFOs are in fact Space Ships using advanced technologies, able to Control Gravity; we will see how …

VIP Abstract

- We have *observed* UFOs and *measured* their parameters for achieving flight (USAF).
- Alzofon's *experiments* used this data to Control Gravity.
- We now also have the *Theory of Gravity* as a quantum correction to "Electric Force", based on the quark model.

This *is* the scientific paradigm (e.g. Tycho Brahe, Kepler & Newton).

We also have the theory and technology for Dynamic Nuclear Orientation and Nuclear Magnetic Resonance to use for Gravity Control.

… so what are We waiting for!?

In a nutshell: What is Gravity?

"**From Elementary Particles to Gravity**"

Many Theories - one Gravity!? From Old ...

- Most of the old and current theories assume Gravity is an independent, fundamental interaction. Some modern theories relate Gravity and EM (see the [Electric Universe](#)).

- Newton's Theory of Gravity is just Mathematics (Poisson eq.). It works with point-wise charges, producing isotropic fields.

- Einstein's General Relativity is a *framework* for modeling Gravity based on deformation of the metric via E-p Tensor:

$$Ric(i,j) = 1/2 \ R \ g(i,j) + k \ T(i,j) \qquad \text{(T: matter tensor)}$$

… to New Theories: Gravity is an emergent force!

- Alzofon Theory of Gravity models the gravitational potential, which is a solution of Poisson eq., as Temperature, also subject to the same equation. It is an effective theory implying that the gravitational potential can be "cooled".

- Ionescu derived Gravity as a quantum effect from the Quark Model, under the assumption of finite groups of symmetry: Platonic groups Tetrahedral, Octahedral and Icosahedral.

- This breaks the continuous rotational symmetry, and the fractional electric charge of quarks interact in a manner dependent on distance and on spin orientation. *This later correction term yields Gravity*.

The Standard Model (SM) and Quark Model

- The Standard Model in Physics (Wiki:SM) is recognized by mainstream science as explaining most of the data of Elementary Particle Physics.

- SM models protons, neutrons and other elementary particles called baryons, as made of *three quarks* (they have internal structure!) with associated fractional charges, flavors and colors; this is the essence of the quark model.

- Quarks provide the additional level of structure, beyond molecules, atoms, protons, neutrons & electrons; it is crucial for understanding Gravity Control & achieving Cold Fusion.
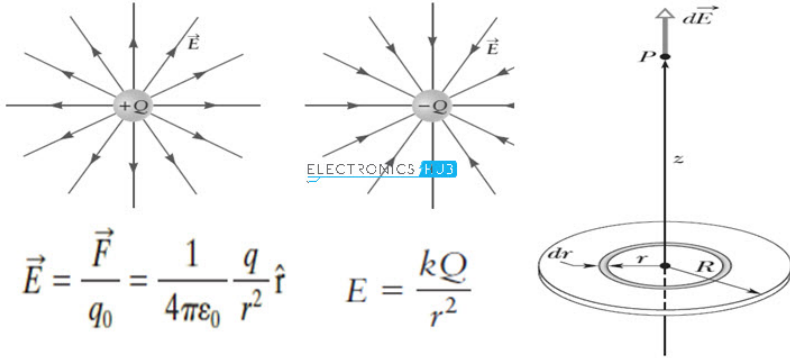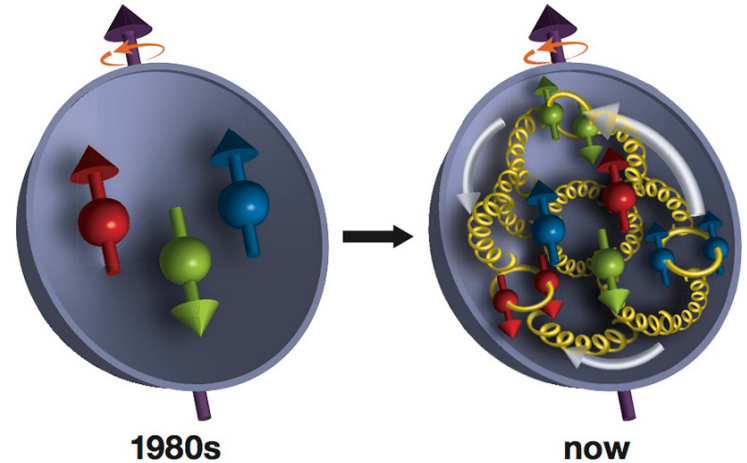
Electric Force: Classically (EM) and Quantum (SM)

0D: Pointwise Charges

BASICS OF ELECTRIC FIELD

$$\vec{E} = \frac{\vec{F}}{q_0} = \frac{1}{4\pi\varepsilon_0}\frac{q}{r^2}\hat{r} \qquad E = \frac{kQ}{r^2}$$

- The Coulomb field is rotationally symmetric.

3D: Protons & Neutrons

1980s → **now**

- Their electric fields are approx. electric "tripoles".

Electric Charges in the Standard Model

- Neutrons and protons have a 3-quarks structure with fractional charges. They are not "pointwise particles"; rather 3D-irreducible objects with a *3D-frame of quarks as vectors*: "pixels of our Universe".

Proton — Total Charge = +1

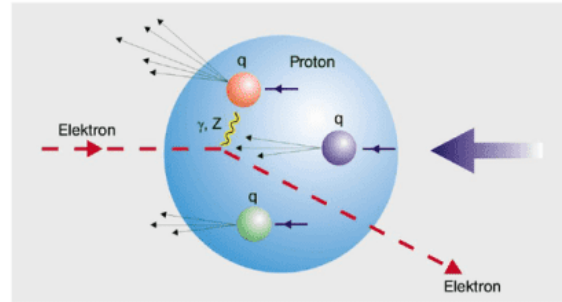Neutron — Total Charge = 0
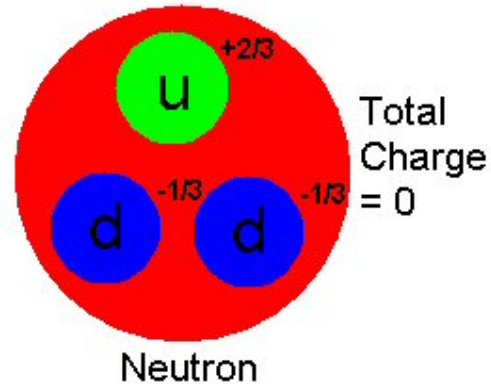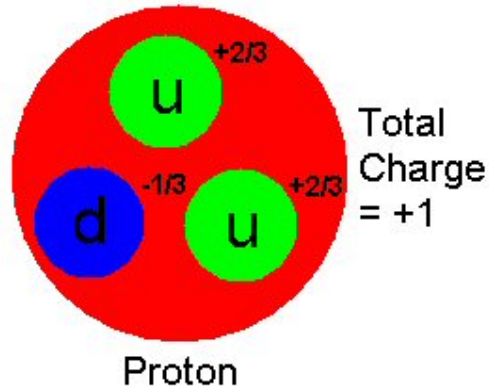
Three Sources of the Electric Field in Protons

- Under electron-proton scattering, a proton looks like a ball with three fractional charges

    2 positive   (+⅔)
    1 negative (-⅓)

- Physicists *interpreted* these centers as particles called quarks; but they <u>cannot</u> be separated!

1. How to probe the quarks?

- Scatter high-energy electron off a proton:

  Deep-Inelastic Scattering (DIS)

- Highest energy *e-p* collider: HERA at DESY in Hamburg: ~ 300 GeV

- Relevant scales:

  $$d_{probed} \propto \lambdabar = \frac{\hbar}{p} \approx 10^{-18} \text{ m}$$

What are Fractional Charges

- "Fractional charges" of +⅔ and -⅓ means the E-force field from sources and sinks in a baryon have the structure of a 3-points "artesian fountain": vector field type (++-) and (+--)
- Examples of 2D vector field types (left) and 3D-schematic:

index = +1   index = +1   index = −1   index = −2
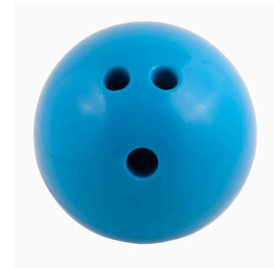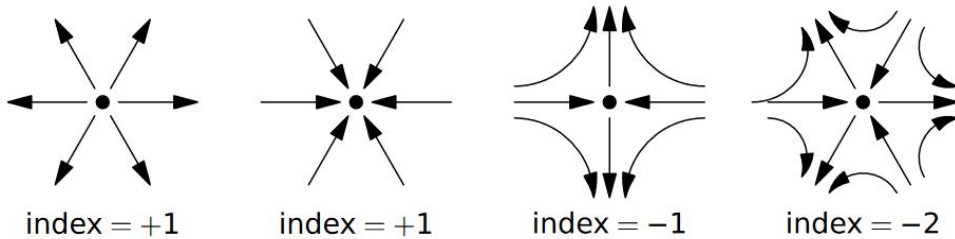
- A baryon has 3 quarks/ fractional charges, and the field is 3D.

	Neutron	Proton
VF Type	(-,-,+) 2 In / 1 Out	(+,+,-) 2 Out / 1 In

Electro-Gravitic field of a Proton and Neutron

- For the proton, the field of quarks as sources, can be decomposed into an isotropic component, electric field of Coulomb type and a highly <u>directional one</u>, gravitic field:

$p(uud) = \frac{2}{3}(+,+,+) - (0,0,+)$ (Perturbation of Coulomb field)

$p_{SM} = \textcolor{red}{2p^+_{EM} - g_{XYG}}$ Electric <u>and</u> Gravitic field

- Similarly, the field for the neutron:

$n(ddu) = \frac{1}{3}(-,-,++) = \frac{1}{3}(-,-,-) + (0,0,+)$

$n^0_{SM} = \textcolor{red}{e^-_{SM} + g_{XYG}}$

Electro-Gravific Interaction is *Orientation Dependent*

- The interaction between two such electric tripoles (baryons) is **orientation dependent**:

- 1st order approximation is Coulomb's Force Law between *pointwise electric charges* (n^0, p^+), distance dependent;
- 2nd order correction is direction dependent, yielding Gravity.

- At **quantum scale** it has a complex structure: n(+--) & p(++-)

- At **large scale** it is essentially Coulomb-like, isotropic, as if coming from pointwise charges (the sum of the three charges): n (0) & p(+).

A Few Consequences

- SPIN is a property of particles due to their internal structure.

- Reorienting the relative spin direction of a pair of neutrons or protons affects their Gravitational attraction.

- Weight of a neutron / proton (mutual interaction with Earth) is affected by its spin orientation (increased, decreased or reversed, yielding repulsion: anti-gravity!).

- The weakness of Gravity is due to the random orientation of the spin directions, due to fluctuations.

Newtonian Law as an Average of Quarks EG-Force Law

- A pair of neutrons for instance (to eliminate the E-force component), interact via the distance-orientation law, with S_i spin directions and scalar product $<,>$:

$$F \sim <S_1, S_2> / r^2.$$

- When summing over the pairs of nucleons of two bodies of masses m_1 and m_2, it yields the Mean Value Force we call Gravity:

$$F = g\ m_1\ m_2/r^2.$$

- The spins are essentially random, explaining the weakness of macroscopic Gravity (compare with dia/para/feromagnetic materials, properties due to *electron's spin*!).

Inter-quark Interaction: the Strong Force

- Quarks of distinct protons and neutrons interact yielding the nuclear force. This is called by Bob Lazar, during his studies of element 115 at Area 51, as Gravity A-Force.
- This force is capable of bending light, hence can be reinterpreted as curving Space-Time. This interaction is also spin orientation dependent, allowing for cold fusion and transmutations.
- DNO aligning of 3D-quark frames using LASER technology produces filament-tubes used by UFOs for beam-drive hyper-jumps (see Paul Potter's book - more later).

Controlling Gravity

Dynamic Nuclear Orientation and Alzofon's Experiments

The Chaotic Spin Orientation and Gravity

- When two bodies are in proximity (e.g. Earth & object), the chaotic orientations acquires a bias towards orienting the two 3-poles for a lower energy state. The resulting gravitational potential leads to attraction.

- Reorienting the directions on ONE body affects Gravitational potential, controlling the weight of the object; makes G-force stronger or weaker, or even reverses its direction: anti-gravity.

Dynamic Nuclear Orientation

- The process of reorienting spins in a nucleus is called Dynamical Nuclear Polarization or Orientation (DNP / DNO). This is achieved by applying a *pulsed microwave radiation* with certain parameters (frequency, gaps between pulses).

- DNO was studied since 1950s (coincidence with recovery of crushed UFOs!?). The theory is well established and used for Nuclear Magnetic Resonance, with MRI as an application.

Fred Alzofon's Experiments and Theory of Gravity

- Alzofon's Experiments <u>proved</u> the weight can be reduced. His setup for DNO used the DATA parameters recorded by a *USAF airplane while chasing an UFO*!

- *His theory is based on a thermodynamics interpretation of the G-potential, modeled as temperature and therefore can be "cooled"*.

- The above Elementary Particle derivation of G sets firm foundations for his "**effective theory**".

Alzofon's Theory of Gravity

- It is the FIRST theory of *dynamic Gravity*!

- Note that Newton's Theory, as well as Einstein's General Relativity model a *static Gravity*, determined by the position of particles of matter, hence it is a *static theory* (like Electrostatics: position of electric charges determine the electric field).

- Alzofon explained the origin of Gravity theoretically, as due to vacuum fluctuations of pairs of particle-antiparticle. This does not explain why spin directions are relevant; nevertheless *he new that DNO is the key process for controlling Gravity!*

F. Alzofon

- Theory lead to experiments …
- Confirmation lead to patents …
- … and contacting investors.

- In the end, all stalled … a huge breakthrough ignored, or rather blocked from taking off (and taking us to the stars).

Summary:
What is Gravity and how to control it

Theory of Gravity & Experiment

- In Standard Model of Particle Physics, protons and neutrons are made of 3 quarks, with fractional charges.
- The force between two protons or neutrons is direction dependent:
         Electric Force (classical)   +   Gravity (quantum)
- Reorienting spin directions of nucleons (DNO), in a body, affects its weight: reduced, enhanced or "made negative" (Anti-Gravity!).

- Frederick Alzofon's experiments confirmed the weight reduction occurs. He used data recorded by USAF from an UFO flight.

How Two Neutrons Interact Electrically!

- Neutron quark structure up-down-down yields a discrete distribution of electric charge, with a null total charge:

- $n(ddu)=\frac{1}{3}(-1,-1,+2)=\frac{1}{3}(-,-,-) + (0,0,+)$
- Hence $\mathbf{n}_{SM}= p^-_{SM} + g^+_{XYG}$ (EM neutral + Gravity field).

Hence there is a polar term departing from a spherically symmetric electric field (like Coulomb electric field).

- The tensorial force between two such 3D fractional charges depends also on the direction of the g^+_{XYG} term, yielding a correction to electric force; the chaotic directions faze it out yielding Gravity as a very weak force.

The Chaotic Spin Orientation and Gravity

- When two bodies are in proximity (e.g. Earth & object), the chaotic orientations acquires a bias towards orienting the two 3-poles for a lower energy state => gravitational potential leading to attraction.

- Reorienting the directions on ONE body affects Gravitational potential, controlling the weight of the object; makes G-force stronger or weaker, or even reverses its direction: anti-gravity.

Part II: The Technology
How to Orient Spin Directions

Main idea regarding Gravity Control

- The Platonic symmetry with quarks fractional charge distribution produces a fine split in the EM spectrum, spin dependent. The difference between the two levels constitutes the Gravitational potential per pairs of nucleons.

- One can supply the corresponding energy via re-orienting the spin direction. Then the Gravitational "constant" is changed.
- Recall that inertial mass = gravitational mass (Einstein). Hence aligning coherently spin directions produces motion without inertia ("resistance" to acceleration: "super motility") … & UFOs …

Dynamic Nuclear Orientation using Microwaves

- EM microwaves are not just transversal waves; they include a longitudinal component, i.e. "scalar / torsion waves".
- At the Larmour resonating frequency they produce gyration of the electronic spin. Due the coupling between orbital spin and nuclear spin, the later is affected and aligned.
- DNO (or Dynamic Nuclear Polarization) is well studied since 1950s.
- **Hutchison Effect** is of a similar nature (see HE); he played with various frequencies and accidentally achieved random anti-gravity effects (reduction of weight).

Alzofon's Experimental Setup and Parameters

- A source of EM microwaves sends pulses with the following parameters to an aluminum probe:

      - Frequency (Electron Precession Resonance): ??

      - Pulse rate (Pumping): 8 ms on

      - Relaxation times (Gaps between impulses): 8 ms off.

- The parameters used were obtained by USAF specially equipped airplane chasing an UFO (see David and Frederick Alzofon book "Gravity Control with Present Technology").

- The 1981 experiment confirmed Gravity can be controlled, and weight of objects can be decreased.

F. Alzofon 1981 Experiment

- The experiment is well documented: experimental setup, data plots etc.; from [10]:
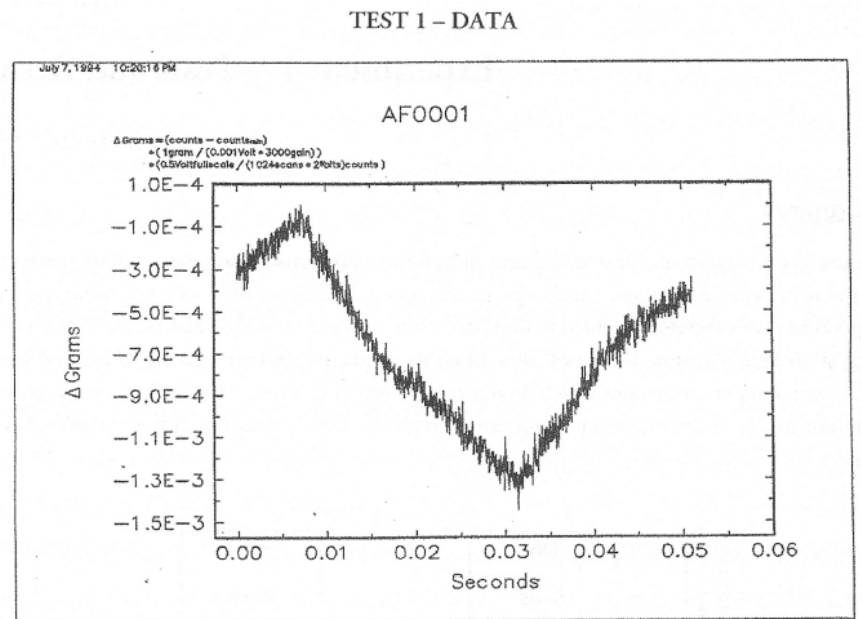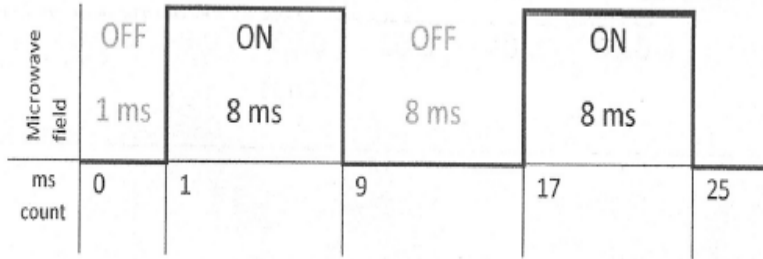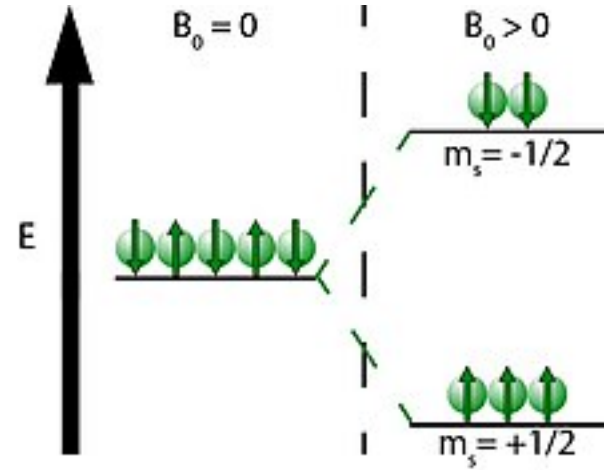
Dynamic Nuclear Polarization (DNP) and MRI

- Dynamic Nuclear Polarization was studied since the 1950s (see Wikipedia). The theory is well established, yet the idea of measuring weight was never present, until F. Alzofon's experiments.

- The EM microwave technology is also used in MRI for imaging, and can be "borrowed" for DNP (DNO) purposes.

DNO - NMR & MRI

Quantum SPIN Lab (SPIN corresponds to 3-quarks orientation)

DNO (no nucleons nor quarks emphasized …)
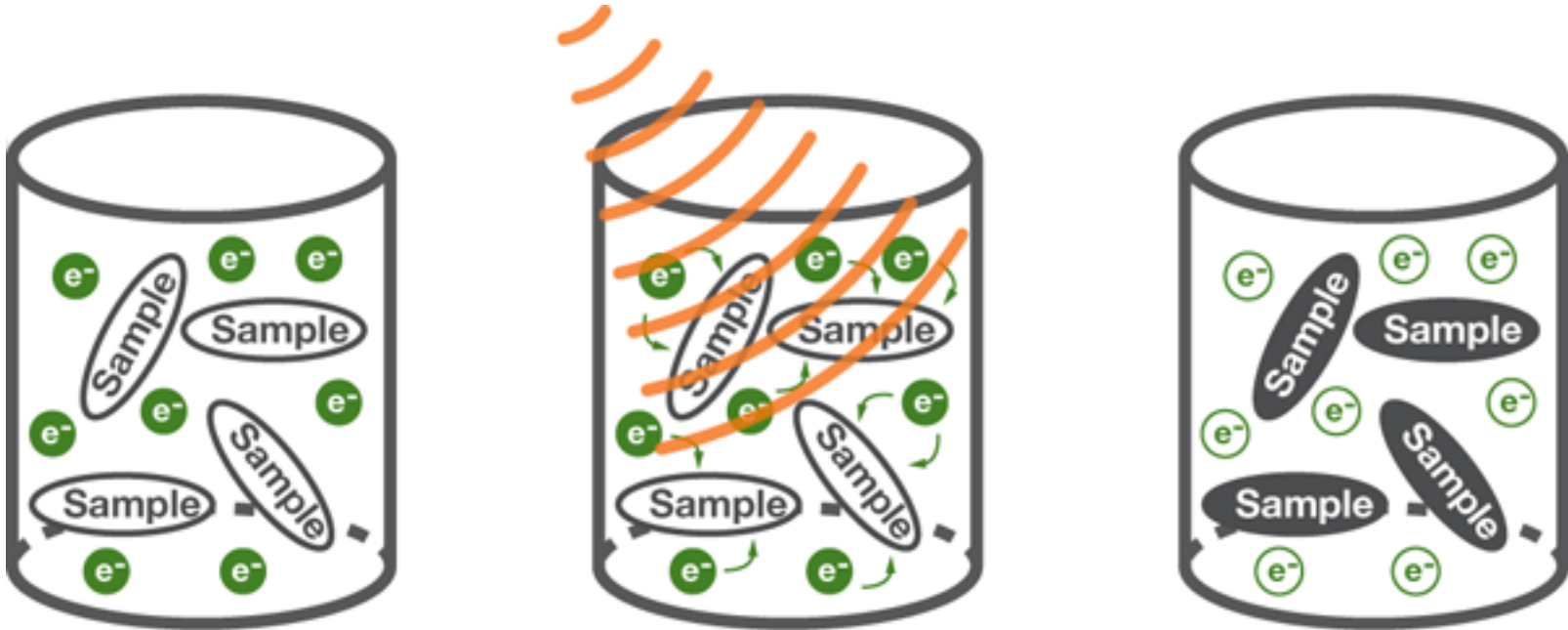
Microwaves excite electrons which transfer spin direction to nucleons
(see Mark Sokol presentation for additional details).

Further Details

- See bibliography and
 [Alzofon's articles](#) & [Gravity Control with Present Tech](#)

 [Alzofon-Ionescu Theory of Gravity](#)

 [On Alzofon Experiments and Gravity Control](#)

- [DNO is explained in Wikipedia](#) (Dynamic Nuclear Polarization).

On UFOs:
Controlling Gravity and Mass

Unidentified (?) Flying Objects

- In 1995 my wife and I have seen a TR3B gliding slowly over Manhattan, KS (I was in a Ph. D. program at K-State) …
- How many of you have seen an Unidentified Space Ship?

"We all know UFOs are real. …" Astronaut Dr. Edgar Mitchel

The majority of UFOs are in fact Space Ships using advanced technologies, able to control Gravity.

What is Mass?

- In Newtonian and Lorentz Mechanics, mass is a coefficient of proportionality: F = m a, related to rest mass E=mc^2.

- In Einstein's GR rest mass equals gravitational mass, as a source of gravitational attraction ("charge").

- When G-potential is changed via DNO, the equivalent mass changes correspondingly.

- When the chaotic spin orientation is reduced (or eliminated) via DNO, inertial / rest mass decreases (even nullified).

UFO maneuverability

- The above considerations, that inertial mass decreases via DNO, explains the ease with which UFOs (Gravity Control technology spaceships, ET and Earth manufactured) change directions at sharp angles.

- The well documented takeoff of a UFO has a latency characterized by a hamming which in fact is the microwave treatment of the UFO, to achieve low mass (weight) via DNO.

Applied Technology

At the time, Dr. Alzofon had no idea. The answer came 16 years later, thanks to a book called *UFOLOGY* by nuclear engineer James McCampbell. The book had a chapter called "Microwave Propulsion."

At the center of that chapter was a report of a UAP encounter over the Gulf of Mexico. David Alzofon spotted the book in Kepler's Bookstore in Menlo Park and forwarded it because it had something his dad had been looking for but had been unable to find: hard data.

Why microwaves!? …

USAF encounters a UFO

The 1957 encounter occurred between a B-47 on an electronic countermeasures training mission and a wingless craft "as big as a barn."

For three hours over five states, with independent confirmation on the air and ground, the UAP "ran rings around" the B-47 while a passive radar antenna onboard compiled a treasure trove of data.

PULSED MICROWAVE RADIATION

- Freq.: 2995 to 3000 Megacycles per sec.

- Pulse width: 2.0 microseconds
- Pulse rep. freq.: 600 cycles per sec.

- Sweep rate: 4 rpm
- Polarity: Vertical
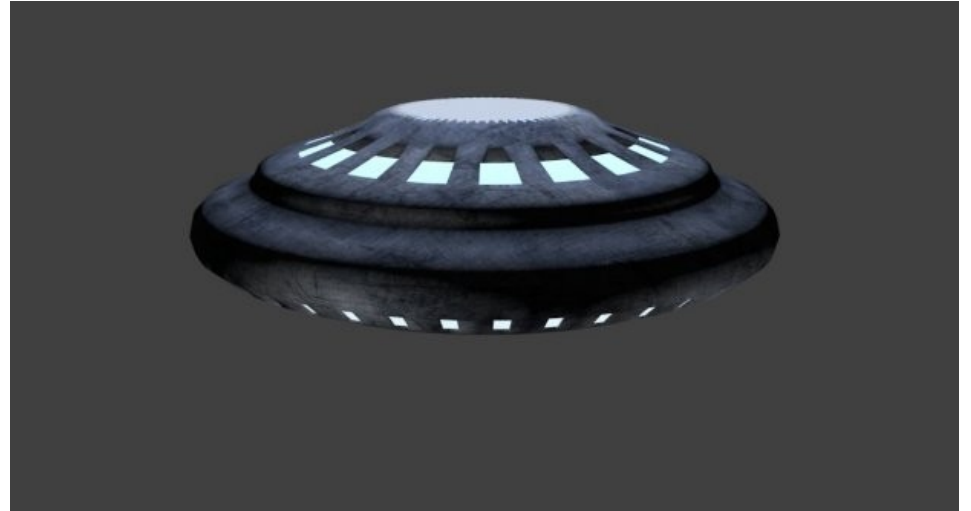
Alzofon's computations: Theory matches UFO DATA!

- Computations by F. Alzofon of DNO on Aluminum sample, using the book "DNO" by Jeffries D. Carson matches the measured UFO DATA!

From Gravity to *Anti-Gravity!*

- Gravity can be controlled from being attractive to being repulsive: ANTI-Gravity (flipping the orientation of the nucleons electric tripoles). This is similar to two magnets attracting or repelling, except magnets have only TWO poles, making repulsion configuration unstable.

- To achieve such high levels of DNO, supraconductivity is needed to lock the SPINs (hence the G-field direction) in an ambient magnetic field: [Quantum Locking](#).

How a UFO works in principle

- Before take-off energy is pumped using microwaves for DNO. This leads first to zero mass and null G-field interaction between UFO and Earth.

- The process continues, flipping the nucleon electric tripoles to the orientation that yields repulsion at G-field level. Then the UFO takes off at incredible acceleration levels (mass is close to zero).

- Supraconductivity is needed, as mentioned before, in order to: 1) increase the relaxation times for DNO; 2) enable quantum locking of spin directions.

DNO, Masers and Supraconductivity

- LASERS use a resonant cavity (between two mirrors) to enhance the process of inverting the population of low energy electrons to the higher state.
- DNO can be enhanced in a similar way, using MASER technology in toroidal cavities typically associated with disk shaped UFOs.
- Low temperatures are easy to maintain in space, to achieve supraconductivity for DNO purposes and quantum locking of spin directions (see also flux pinning).

N.A.: For details see the specialty literature.

MASERs for DNO using microwaves

[MASERs are everywhere](#) …

They have the same role:
invert the population from
low energetic states to higher
energetic states (& then stimulated
synchronous emission).
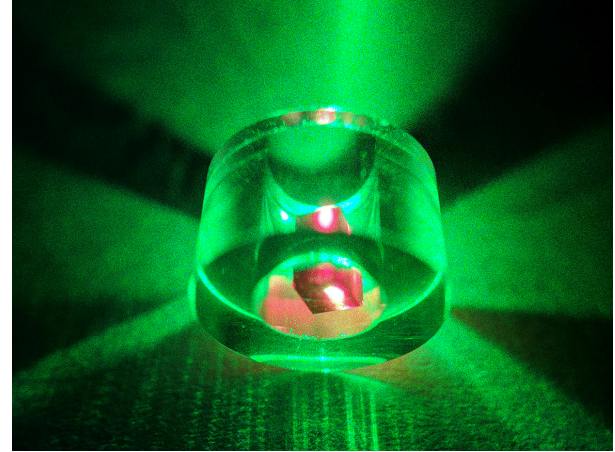
Main advantage of using a MASER: it is a source of coherent microwaves, ensuring an efficient excitation (think random vs. in sync pushes of a swing).
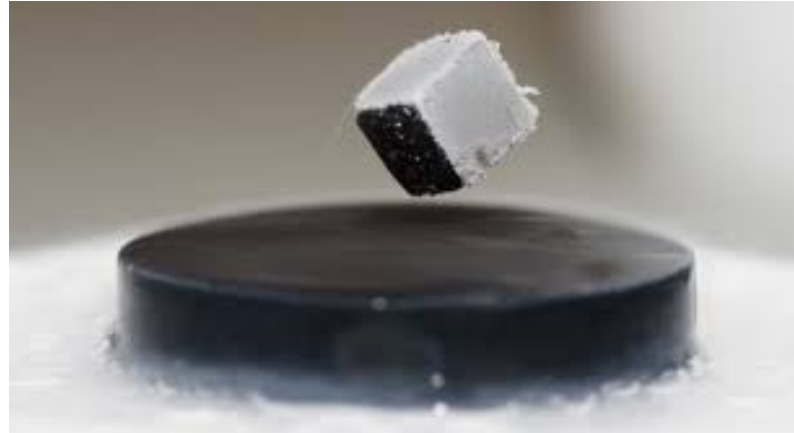
This would be a drastic improvement of Alzofon experiments.

Quantum Locking of Spin

This [locks the orientation of the spin](#) in the desired direction.

The process requires
low temperatures:
supraconductivity.

… a different kind of levitation …

How Much Energy is Needed for Take-Off?

- For take-off the UAP/UFO needs to nullify the G-Force by orienting the spins of the nuclei of the space-craft.
- The energy per particle is:

$$E = h\,B\,f$$

where f is Larmour frequency (~ MHz); times the number of particles (~ Avogadro number) yields a reasonable energy. For Lab probes it is equivalent to microwaving it!!
- In contrast, GR based approaches using EM fields "to bend Space-Time" are inadequate, and theoretically require huge amounts of energy, unattainable with present technology.

Example: Falcon Labs [Reproduction of Alzofon Experiment](#)
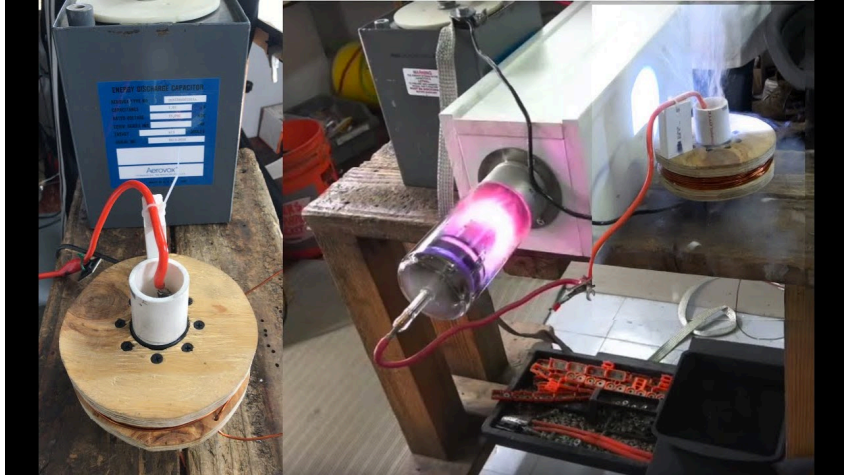
- For a 1 g of Al foil probe, a horn antenna of 20 W was used; the power at the probe was about 1 W.
- The measured weight reduction was 17% of probe's weight!

… we see that the energy needed is quite manageable …

How Much Energy is Used in Flight?

- Reduction of Earth based weight to nearly zero implies a _reduction of mass to nearly zero_ (depends on "manufacturer").
- Nevertheless the UFO is coupled with the Solar G-field (ambient), which ensures stability.
- The manipulation of spin directions, set by its internal magnetic field, ensures flight.
- When reversing the spin directions, antiG is achieved, which is also used for propulsion.

Conclusion: Manipulation of spin directions yield propulsion! … and this is achieved at low energy costs (Mega wats level).

Gravity Surfboards

- In principle, when being able to manufacture meta materials with desired spin directions (Spin Glass / spin ice), on will obtain "personal G-surf boards" with no extra-energy source needed for transportation (see [Grebennikov's platform](#)).

- Note that this platform behaves as if generating a strong local field, capable of bending light, with clocking capabilities. The credibility of G-platforms increased with the above theory of Gravity, of quantum origin (quarks, DNO & [CSE](#)).

Beam-driven UFO hyper-jumps

- UFOs are also capable of hyper-jumps in our atmosphere ([Paul Potter's Book](), p.36). The process involves projecting a filament-tube ahead of the craft, sling-shooting the UFO through it.

- This may be related to a LASER driven DNO, creating a strong force field in the atmosphere, used as a medium …
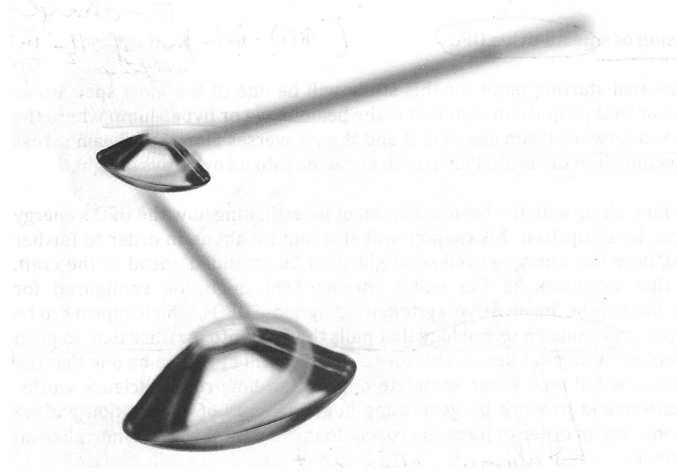
Filament Tubes and Nuclear Force

- The filament can be tentatively explained by the quark model as related to the Strong Force; the filament consist of gluonic open strings connecting the 3D-quark frames of the atoms involved in the DNO process (see also spin ice).

- Bob Lazar working at Area 51, harboring the S4-UFO, referred to Gravity A-Force as related to the nuclear force (loc. cit. Ch.12).

- This nuclear force, a.k.a. Gravity A-Force, is also involved in transmutations (see Gravity Control and Cold Fusion).

N.B. There is not enough time to elaborate on this here …

"Gravity A Force" / Inter-quark Interaction

- Probing protons or neutrons with electrons reveals the fractional electric charge responsible for "normal" Gravity.
- The inter-quarks interaction yields the nuclear force and can bend light, as if curving Space-Time in General relativity.

U(1)->SU(2) gauge groups: EM & Nuclear Force

This stronger force can be used for transmutation of elements, for curving Space-Time or even simulating the black-holes of GR. As an application, it provides UFO flight via hyper-jumps.

Part III: Applications

- AG-transportation on Earth
- To Venus / Mars in one hour.
- Transmutations and Hyper-Jumps

Limitless possibilities …

- So, we have the Theory, we have the Experiments in Lab …
we are ready to develop the Technology and Industry of **Gravity Control Transportation**:
        - On Earth: clean and inexpensive
        - In The Solar System: to Mars / Venus in one hour or so ..

- *We need to Educate the Public on what Gravity is, and of the above possibilities*, in order to initiate the "Anti-Gravity rush" ..

Remark. Teleportation is an alternative modality of travel, but less clear how it is done (Quantum tunneling / wormholes? maybe: the Space-Matter Network is the Quantum Matrix! see Quantum Computing)

SILICON VALLEY OPENS THE SPACE FRONTIER

The new "gold rush": conquer Anti-Gravity propulsion.

Imagine walking into a frontier saloon, circa 1885, and trying to convince the patrons that in a hundred years we'd be flying to the moon and crossing the country in jet planes in a matter of hours.

It would be a hard sell, even if you could arrange for an F-16 to fly by and frighten the horses.

… but if the Theory of Gravity Control is disclosed to the masses, the "pressure" from Garage Lab experiments will force companies do the same: R, D & Production.

Talking Points About the Future

Airports will go vertical, with vertical takeoffs into space.

Partial weight reduction would lead to hybrid planes.

A rapid response asteroid defense system would be possible with gravity control.

Ground transportation (2D) will eventually go 3D above the surface of the Earth.

Colonization of the Solar System will begin.

Cold fusion and hyper-jump transportation.

Conclusions / Summary

It is all in the Quark Structure of Matter

- The familiar levels of structure of matter, molecules, atoms, electron-proton-neutron, need to be extended with one more: Quark Structure of Protons and Neutrons.

- Controlling the spin direction of a nucleon allows to control gravitational attraction, low range electrostatic repulsion and hence controlling gravity and fusion.

- Meta materials engineering via DNO will lead to new materials with new amazing properties …

Electromagnetic CHARGES Have Structure!
(This is the Main Point)

- Protons p^+(uud) and Neutrons n^0(udd) are made of up u and down d quarks, sources of electro-gravific force, spin orientation dependent.

- Their mutual interactions yield EM and Gravity!

$p(uud) = \frac{2}{3}(+,+,+) - (0,0,+)$, $p_{SM} = 2p^+_{EM} - g_{XYG}$

$n(ddu) = \frac{1}{3}(-,-,-) + (0,0,+)$, $n^0_{SM} = e^-_{SM} + g_{XYG}$

Protons and Neutrons are Electric Tripoles

- The three fractional electric charges of a proton and neutron define an "electric tripole".

- Their interaction is also direction dependent:

Electro-Gravitic Force.

- Reorienting the tripoles via DNO (polarization) reduces Gravity, or may even reverse its direction: Anti-Gravity.

Gravity Control Status

Observation and Measurement of UFOsyielded behavior and data.

Theory is Set: Alzofon's Effective Theory (1980s), Ionescu's Gravity Theory based on Quark Model of Standard Model (2021).

Experiments confirm Gravity Control: 1980s Alzofon (well documented); recent prospects: Falcon Labs (Mark Sokol) …

Technology support: at industrial level we have NMR, MRI and DNP technology since 1950s.

… we have everything we need for applications of Gravity Control.

A To Do List and Further Prospects

Building the Culture about Gravity and Gravity Control

- PEOPLE need to know about Gravity Control possibility. To travel in the Solar System / "Going to the Stars", we need a popular textbook on Gravity Theory and Control.

- KickStarter crowdfunding [Gravity Project](#) would allow the masses to HELP start this movement towards a NEW PARADIGM in Science:
  - [The Fund Raising Campaign](#) Newsletter: SUBSCRIBE!
  - [VIReQuest LLC website](#) explains this …

Further R&D regarding DNO

● An in depth understanding of DNO requires relating it with *nuclear magnetic resonance* (NMR and MRI)!
   [See Carson Jeffries, Dynamic Nuclear Orientation; C. E. Byvik, Spin-Temperature Theory of Dynamic Nuclear Polarization etc.]

● A better knowledge of Solid State Physics is needed!

● An update of the Standard Model is required.

● Replication of Dr. Frederick Alzofon experiment is needed!!
   [but no "assuming", "I believe" etc. towards "debunking" it; using a positive mindset and creative attitude]

Dia/Para/Pro-Gravity materials …

- By paraphrasing magnetic properties: dia/para/fero magnetic materials, susceptible of various levels of magnetization, we conjecture existence of analogues for Gravity.

- Magnetization is due to a *coherent*, combined superposition of individual magnetic moments of the individual electrons.

- A similar behavior is expected from meta-materials, with respect with DNO; some materials may become "permanent G-anisotropic" (see Grabennikov's story) and others require EM-field and Rotation (John SEARL's story), to magnetically orient nuclear spin.

Bibliography / Sources

1) [vixra articles](#) on Alzofon-Ionescu Theory: [10]-[17]
2) TESLA 2021 presentation: [Quantum Gravity and Control](#)
3) [ISU Website](#): Platonic Solids and Unified Field Theory, Gravity Theory and Control, Cold Fusion etc.
4) [Gravity control: magnetic fields and acoustic vibrations](#).
5) D. Alzofon, Gravity control with present technology.

6) 2020 [A Unified Field Theory approach to Gravity Control](#),

7) [Super-symmetry, anti-gravity and free energy](#)

8) [Frederick Alzofon](#) and David Alzofon: [Gravity Control with Present Technology](#)

9) VIRequest – [Gravity Project](#) – [website](#)

10) Paul Potter, [Antigravity Propulsion Dynamics](#) - UFOs and Gravity Manipulation.