

The Innovative New Concept Approach of the Ejection Momentum (EM) Gravity Drive Engine

Lie Chun Pong
HKUST

Email address: vincentplie@yahoo.com.hk

Abstract— *The groundbreaking idea of the Ejection Momentum (EM) Gravity Drive Engine introduces a new type of rotation spin propulsion system that cleverly uses magnetic momentum exchange through mass ejection. Think of it as a version of rocket propulsion, but fine-tuned to work with surrounding media or fields to produce thrust more efficiently and with less propellant. Unlike traditional rockets that push mass out at a set speed, the EM Gravity Drive can adjust its ejection speed to match or even surpass the craft's velocity, helping achieve higher speeds with less fuel. This innovative concept of idea was develop by rotation and spin in the magnet engine causes switch in the magnet wall, if we can solve engineering challenges like harvesting energy efficiently and controlling ejection speed, it could pave the way for interstellar travel. The key innovation depend in managing the gravitation wave momentum of ejected mass and interacting with the environment to generate thrust without needing the heavy fuels used by conventional rockets. While still in the realm of theory, this idea holds exciting potential for revolutionizing spacecraft propulsion, combining core principles of magnetic momentum conservation with inventive drive technologies that could transform long-distance space exploration.*

I. INTRODUCTION

Everything in the universe—galaxies, stars, and even tiny particles of the planet—fundamentally relies on rotation and spin. The industrial engines we use all operate based on motor rotation and spin to produce kinetic energy. Whether it is a regular motor or an aircraft engine, they depend on fan blades to spin. To generate power, lift, or most importantly, to produce and generate electricity in our daily applications, rotation is essential because it converts magnetism into electrical energy. The rotation of magnets, such as magnetic coils and copper coils, creates magnetism and electricity. According to Maxwell's equations, the Lorentz transformation demonstrates how magnetism can generate electricity and vice versa.

Therefore, spin is one of the essential tools or factors in applied physics and in the operation of motors or engines. In the universe, stars are spinning, galaxies are spinning, and even individual stars are rotating. Although modern science has introduced concepts like dark matter and dark energy to explain their driving forces and supports their existence, their exact mechanisms remain unclear. It is generally understood that dark matter contributes to gravity, while dark energy causes repulsion. Honestly, we still do not fully understand the mystery of solidity. This article aims to use current limited knowledge to explain and understand gravity, and to harness human ingenuity to create an EM warp engine capable of traveling across the universe. EM Gravitation Drive.

II. METHODS

This comprehensive research paper critically explores a corpus of news articles sourced from the BBC [1] [2] and a selection of reviews retrieved via BBC Channel [3], encompassing publications from the period 2016 to 2025. This study innovates an advanced methods approach, integrating with new EM drive gravity modelling to identify the possibility of the EM engine and its implications. Furthermore, this research presents an innovative framework for magnet engine development, centred on the conceptualization and implementation of a magnet switch spin of rotation.

III. DISCUSSION

According to the principles of quantum physics, all things use probability as an analytical tool to prove their existence. Quantum mechanics also clearly states that waves become particles when observed and revert to waves when not observed. Waves manifest as regular vibrations, so as long as we can understand the rotation trajectory of the stars, we can understand the path of gravity. Based on this inference, if we can grasp the rotation frequency vibrations of the galaxy and the wave frequency of the spin, we can uncover the mystery of the story. As a result, the wave frequency of rotation is critical, and the warp engine EM Drive engine depends on understanding the wave frequency vibrations of gravity phenomena as a fundamental way of its operation EM Drive engine.

Before analyzing the EM Drive engine, let's first look at today's aerospace engines. They also use the medium, which is air, as a tool to generate thrust. Therefore, the EM Drive uses gravity as a mediator to produce thrust. It can be said that in the vacuum of space, finding such a mediator is difficult. However, based on the universe mentioned above, dark matter and dark energy exist. Although we haven't yet detected actual dark matter or dark energy, the laws of physics produce forces and repulsions over a distance. As long as this force exists, we can calculate the corresponding frequency based on the spin of each galaxy and star and the effect of this force. If we can receive the corresponding frequency of gravity, we can build a gravitational engine. The concept of a gravitational orbit engine arises from this idea, which is the key point this article aims to highlight. Magnetism generates electricity, electricity generates magnetism, gravity produces thrust, and thrust also generates gravity.

Gravity is also produced by the centrifugal force generated at the center of gravity due to spinning. Therefore, in

discussions about motors and electricians, this article aims to update the concept and adopt the new idea as the fundamental approach to the gravity EM drive engine.

So, as long as we can control the frequency of gravitational spin, we can build a corresponding engine. It can be considered a radio, but it is also an aerospace device that absorbs gravity to generate thrust, repulsion, and attraction.

By precisely manipulating the oscillation frequency of gravitational spin states, we can conceptualize the development of a novel propulsion system. This device could operate akin to a radio-frequency modulation apparatus, but on a gravitational scale, functioning as a gravitoelectric or gravitomagnetic engine. It would harness gravitational waves or gravitomagnetic field interactions to produce thrust through controlled gravitational wave absorption and emission, enabling diverse force applications such as propulsion, repulsion, and attractive forces. Such an engine would leverage advanced quantum field interactions with spacetime curvature, potentially utilizing phenomena like graviton modulation, to generate directional force vectors in a manner analogous to electromagnetic wave manipulation.

The mechanism of this innovative method has two aspects:

One goal is to develop an engine that can generate a resonant frequency and compress the gravitational field, similar to a large earthquake, causing the gravitational plates to break apart. This would disrupt the gravitational force at the resonant frequency, like an icebreaker smashing through ice, creating a shortcut channel. This process resembles Tetris, as it builds a new shortcut space tunnel channel.

Second, it is to create a machine that can receive the gravitational frequency of the destination, using it as a traction force, and function as a gravitational engine that acts as an anchor to hook onto the target star.

By disrupting the gravitational field and capturing the gravitational force, it anchors the target as a gravitational influence and pulls it toward the destination (star).

By manipulating the spacetime curvature through advanced gravitational field disruption techniques, this device effectively captures and localizes the gravitational flux emanating from the target object. Consequently, it stabilizes the target within a gravitational well, functioning as a gravitational anchor. This mechanism exerts a controlled gravitational pull, directing the target's trajectory toward the designated celestial body (star) by leveraging precise gravitational lensing and flux modulation principles standard in relativistic astrophysics.

Propose Maths Model Initiative Concept:

Let,

$$\xi = \text{Mankin Space}$$

$$\perp = \text{Transformation of Gravity to Energy}$$

$$\lrcorner = \text{Transformation of Energy to Gravity}$$

$$\sqrt{\quad} = \text{Mankin Spaceline}$$

$$\frac{\partial^2 \psi_i}{\partial t^2} = V^2 = A$$

$$\& = \sqrt{\quad}$$

Then, the formula will be,

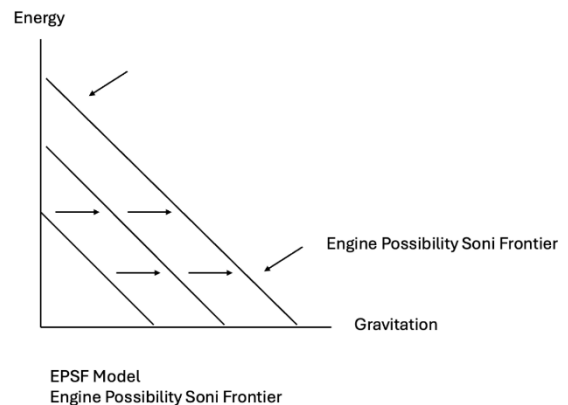
$$\nabla \square^{\frac{1}{4}} T \cong \Delta \square \perp$$

$$\frac{\partial^2 \psi_i}{\partial t^2} \sqrt{\square} T^2 \cong \frac{\partial^2 t}{\partial \psi_i^2} \square \perp^2$$

$$A_\lambda T \sqrt{\square} T \cong V^\lambda \perp \square^2$$

$$A_\lambda T \& T \cong V^\lambda \perp \square^2$$

This article boldly assumes the existence of a "graviton" smaller than the moving object. The "graviton" is a crucial mediator of the gravity engine. In other words, if we can discover the "ultra-micro-graviton," we can create a gravity engine, and the "nano-graviton" is a type of particle smaller than macro particles and faster than those in super macro theory. Assuming that macro has waves and vibration frequencies, it means that the "super-gravitons" smaller than macro are key to interstellar navigation. "Ultra-micro-gravitons" can be called cosmic particles for interstellar navigation. That is, as long as we can master the gravitational rhythm, the gravitational beat, we can develop a gravitational engine. The principle is that, like a radio with a coil on its axis, the spin wave generated can connect with the gravitational line of its star and its gravitational orbit.



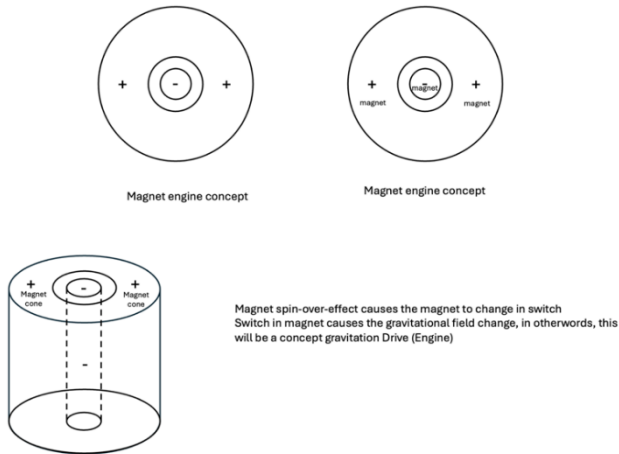
Graph 1: Engine Possibility Soni Frontier (EPSF) Model

By disrupting the gravitational field and capturing the gravitational force, it gently anchors the target as a gravitational influence, guiding it smoothly toward the destination (star).

The core concept posits that a mechanically spinning device, akin to a specialized musical box equipped with precisely calibrated wheels and tracks, can generate an anti-gravity thrust phenomenon while simultaneously exerting attractive forces. This research proposal hypothesis further suggests that, following its activation, an inertial force arises, characterized by a centrifugal component that can be interpreted as an expansive outward force resulting from rotational motion, analogous to the centripetal force experienced in classical mechanics. This centrifugal inertial force is theorized to resemble a form of 'spin-induced distant force' associated with stellar phenomena. Consequently, the proposition implies that by detecting and controlling

hypothetical quantized gravitational mediators, herein referred to as "ultra-micro-gravitons," and precisely tuning their oscillation frequencies, it may be feasible to engineer a gravity manipulation device or gravity engine.

The principle is likewise a spinning music box with specific wheels and tracks emits anti-gravity as thrust while attracting attraction. This article suggests that an inertial force remains after operation, and the centrifugal force of this inertial force is a type of spin-over-distance force of the star. In other words, if we can discover "ultra-micro-gravitons" and understand their frequency, we could build a gravity engine.



Pic. 1: Innovative Engine Model design Concept

IV. SUGGESTION

To utilize the Resonance and harmonic waves (resonic). The principle of resonance is based on the swing of its fulcrum and force point. It can also be regarded as the co-oscillation of the rod support structure of the fulcrum and the fulcrum. If the frequency of the swing reaches a certain level, the building will collapse. Therefore, if you wish, this principle can be regarded as the action force and reaction force of physics, or as a kind of stress operated by reverse thinking. Energy has the opportunity to control the frequency of the co-oscillation, such as the turbulence caused by the swing of the track. That can be used as a transformation (Transformation) to convert energy into frequency, and at the capture moment. (Appendix 1) By mastering its principle, one can grasp the navigation of interstellar orbits, that is, the co-oscillation, the space overlapping period generated by the common frequency, that is, points and lines are connected into one, magnetism generates electricity, electricity generates magnetism, and the frequency is converted into gravitational waves, gravitational wave orbits, and orbital ejection-type orbital drift. This is the principle of EM Drive, orbit-changing flight. Reduce the flight space and reduce the flight time interval.

This kind of continuous and consistent disturbance will generate traction forces between stars and between objects, as well as involving stars and stars.

This persistent and uniform disturbance induces shear and normal forces within the stellar medium and among celestial objects, facilitating the transfer of momentum and energy. These interactions involve complex gravitational coupling and

tidal forces, contributing to the dynamical evolution of stellar systems and their mutual gravitational influences.

This continuous and constant gravitational disturbance is called (Siri) in this article.

The relationship between these harmonious resonators and gravitational particles creates artificial gravity particles. Finding gravitons and (Siri) can create ultra-distance gravitational orbits.

The creation of artificially induced gravitational fields is made possible by the interaction between these coherently synchronized resonant structures and hypothetical gravitational quanta, specifically gravitons. The detection and manipulation of gravitons, alongside advanced theoretical constructs such as Siri (potentially a reference to a specific quantum or particle concept), could enable the establishment of ultra-long-range gravitational orbits, thereby broadening the scope of gravitational manipulation and exploration within a high-level theoretical physics framework.

Master rhythm frequency and create space transformation

Through the resonant frequency, combined with orbital ejection and theories such as magnetoelectric and electromagnetic conversion, the conversion frequency is turned into a magnetic track conversion mechanism, causing Grab to target the magnetic track point and become an EM gravity Drive.

Through the resonance at the specific frequency, in conjunction with orbital ejection phenomena and established theories such as magnetoelectric coupling and electromagnetic-to-mechanical energy conversion, the system facilitates a frequency transduction process. This process converts the initial electromagnetic wave into a magnetic track-based propulsion mechanism. The resulting magnetic field interacts with the magnetic track point, effectively enabling the device—referred to as Grab—to target this magnetic locus and transition into an electromagnetic drive (EM gravity Drive) mode. This mechanism leverages complex quantum and electromagnetic principles to produce thrust without expelling propellant, aligning with advanced concepts in relativistic electromagnetism and quantum field theory.

V. TRACTION

Traction refers to the force exerted by a surface on an object when the object presses against or attempts to move along that surface. In a professional context within physics, traction is often described as the component of contact force that is responsible for preventing or enabling motion between surfaces, depending on the applied external forces. This force plays a crucial role in understanding frictional interactions, especially in systems involving mechanical contact, such as gears, wheels, and tires, where efficient transmission of force is essential. The coefficient of friction, material characteristics, surface roughness, and normal force are just a few of the variables that affect the amount of traction. In engineering and physics, a detailed analysis of traction involves calculating the static or kinetic frictional forces and understanding how these forces influence motion and mechanical efficiency.

In this article assumption, this kind of (Traction) is caused by continuous disturbances. For example, the spin of stars, stars

themselves, and even interstellar bodies create perturbation disturbances. The rotational force between stars and the flows generated by them produce a self-acting lifting force, known as eclipse gravity.

The phenomenon results from persistent perturbative disturbances within the astrophysical environment. Specifically, rotational dynamics of stellar objects, intrinsic stellar activity, and interactions with interstellar bodies induce complex gravitational perturbations. The angular momentum exchange and flow dynamics generated by these rotating bodies give rise to a self-sustaining lifting force, which is classified as an eclipse gravity effect—a concept rooted in advanced gravitational physics and astrophysical fluid dynamics.

VI. CONCLUSION

This research proposes a new method of concept of idea, delineates the EM Gravity Drive Engine as an advanced, next-generation propulsion system, integrating principles of classical momentum conservation this research article suggested as a siri of magnet wave, with cutting-edge energy harvesting technologies and ion rotation propulsion methods. We suggest to posit the potential to facilitate highly efficient magnet change in shift, high-velocity space travel that surpasses the

velocity limits pushing the possibility boundaries into the new level. The system leverages electromagnetic field interactions with gravitational anomalies to generate thrust, by rotation spin, utilizing plasma ionization and electromagnetic field rotation manipulation to produce a continuous acceleration mechanism. This approach aims to exploit emergent quantum and relativistic physics phenomena to achieve propellantless propulsion, thereby significantly enhancing propulsion efficiency and velocity throughput for deep space exploration.

REFERENCES

- [1] BBC news article on the EM Drive and Greenglow project (2016)
- [2] BBC blog noting the controversy and public interest (2016)
- [3] NASA test commentary seen on a 2016 video referencing BBC-related discussions

Appendix 1:

Based on the postulation of the $E = MC^2$

$$\begin{aligned} E^2 &= [MC^2]^2 \\ E^2 &= MC^2 \times MC^2 \\ E^2 &= M^2 \times C^4 \\ E^2 &= M^2C^4 \end{aligned}$$