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INTRODUCTION TO THE EXTERNAL MAGNETIC FIELD PROPULSION

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1:0 INTRODUCTION

Last four decades witnessed great development of human understanding and quality of life, with consequences of great production and consumption of fossil energies leading to worries of those who care for human prosperities [1, 2].

The belief of some in a divine intervention that may transform this planet into a heaven can't be materialized unless an ideal solution for advanced alternative for energy and propulsion system is found.

In that regard, what is the ideal energy and propulsion system ever thought of by Physicists, Aerospace Engineers or even Astrophysics?

Human imagination for that ideal propulsion had led to innovative hypothesis based on current science, such as Worm Hole transportation, Alcubierre's "Warp Drive", Negative mass propulsion, Millis's hypothetical "Space Drives", Hypothetical Differential Sail, Hypothetical Diode Sail, Hypothetical Induction Sail, Hypothetical Diametric Drive, Hypothetical Pitch Drive, Hypothetical Bias Drive and Hypothetical Disjunction Drive [3], others such as Electrokinetic propulsion, extra low frequency, Gravity Generators, high frequency wave propulsion, radio-wave controlled electric field [4].

All these great efforts showed that, the mental background behind these hypotheses is the work for ideal spaceship propulsion, which should compose of the following conditions:

- 1- A field (magnetic, electric gravity or any new proposals) should be used to obtain that propulsion.
- 2- The above field should be produced external of the spaceship.
- 3- The required propellant for such field should not be part of the spaceship payload, or minor percentage of that.
- 4- The speed resulted from such propulsion should exceed that of light.
- 5- It should overcome Einstein light barrier.

At present, some of above theories [3, 4] aimed at propelling objects using a field, but the practicalities for these hypotheses are the criterion. A different approach was developed that abides by the above conditions; it was initiated by an unnatural apple; that was an entry of an extraterrestrial spaceship to our earth equatorial atmosphere.

The suggested proposal of [External Magnetic Field Propulsion \(ExMF-P\)](#) has the following characteristics:

- 1- To propel a spaceship (or earthly objects) using *ExMF*.
- 2- The *ExMF* to be produced external of the spaceship.
- 3- The *ExMF* is produced external of the atom.
- 4- The propellants to produce the *ExMF* are charged particles (electrons and protons); they can be captured from the interplanetary or interstellar space. Or carried as a payload, with total mass less than 5% of the spaceship.
- 5- To attain momentarily unimaginable force and speed.
- 6- It may help the quest for better understand of gravity and antigravity.

This work, although based on strong motivation, is open for debate and improvement, in order to achieve these human goals. But what was the inspiration that had initiated these researches, which finally yielded the *ExMF-P*?

Finally, this paper is written to introduce the reader to the complete propulsion paper title "***EXTERNAL MAGNETIC FIELD PROPULSION AND FLYING OBJECTS***" Which was first published incompletely with missing two figures (6 & 7) and two graphs at [Americanantigravity](http://Americanantigravity.com).

2:0 HISTORICAL INSPIRATIONAL ENTRY

It all started on January 15, 1995 around 1:28 AM, in Kampala (0.35° N, 32.5° E) the Capital of Uganda, when I saw what I first thought a meteor, but in realizing the increases in its magnitude, I start thought it could be a huge meteorite, linking it to Arizona crater or that of South Africa, and the consequences of such impact on the city.

I ran to the club window called for my friend Mr. Walugembe Kiweewa with whom we were playing chess to come and see the huge thing which is going to fall over Kampala, I turned to see their response, he was rushing towards the door, with other three among them Mrs Annette Nabattle the owner of that club.

I turned back to watch in great surprise, the bright light which became in seconds an enormous cylindrical object, with extremely bright light emanating from a huge (what looked like) porthole at the front hemisphere, with four or six other equally spaced portholes extending along the side of the spaceship, the bright lights becomes dimmer towards the rear.

The body of the object was shiny and silvered by the full moon reflection; there were five bands of intense red light, emerging from the central part of the spaceship towards the end, where they mixed with an enormous and intense red light that emerged from the rear hemisphere and which seemed to extend beyond the full length of the spaceship.

Some striking points were observed at that moment, they were:

1. The bright light at the front was so bright, it looked like the light from electric arc welding, the light was intense and near to ultra-violet radiation.
2. Each of the red colored beams were much more intense in their middle, the color of which reminds me of the beautiful aurora photo published at the Guinness Book of Records, 1991 Edition [5].
3. Both the upper and lower beams that emerged from the centre of the spaceship were clearly curved at the emerging center points, while the two beams which were above and below the centre, were slightly curved at the emerging points, (These curvatures are characteristic of that which can only be produced by a magnetic field).
4. No sound of any kind could be heard from the ship.

5. As the spaceship flew above some clouds in the northern part of the city, the red light was clearly seen reflecting and coming out from the surrounding clouds.
6. The spaceship then appeared in an opening between the clouds then disappeared.
7. The red light began fading away in the distant horizon.
8. When we returned back inside the club, and after making a sketch, with the date and time, I asked my friend about the length of the object, he estimated it to be more than fifty meters, I told him my estimation is more than hundred meters.
9. The diameter of the spaceship was around twenty five meters.
10. The altitude of the spaceship was between 1500 and 2000 meters.
11. While watching, I started counting from zero, and from the moment when the object arrived over the town center, to the moment when it ended its flight and disappeared; I had counted 11 seconds, and from this I estimated the total flight period from its descent point as 25 seconds.
12. Therefore, from above timings, if the length of the town is 30 kilometers, the velocity of the spaceship at that moments, can be calculated to be approximately 4320 km/h.

While watching, the logical question that entered my mind was, to whom does this new spaceship belong? But also, why did it enter the earth environment like the Shuttle?

Clearly what we witnessed was an entry or re-entry of a spaceship, through the earth's atmosphere, but is there any knowledge about discovery or existence of such an advanced system of propulsion worldwide? Is it possible for any government to hide such enormous machines from the media? If it orbits the earth, can it not be detected by amateur astronomers who are able to detect bodies of less than five meters at distances of thousands kilometers above the earth?

Therefore, my conclusion was that what we had witnessed was an entry of a spaceship from a different world that was controlled by different intelligence.

After settled in Nairobi-Kenya, I went back to Kampala in May five month after the sighting, and met with Mr. Kiweewa, he told me how one of his neighbor had told him two weeks after the sighting that he saw something one night but he afraid telling him because he can't believe him, my friend asked what was it? He said at that night, he quarrel with his wife and went to balcony; while there he suddenly saw a huge cylindrical object, long red light at rear and bright light coming from the front part; to his surprise my friend told him he believed him because he saw the same thing, the man felt greatly relieved.

I told Mr. Kiweewa, that I thought carefully about the whole episode and I am only regret that I called them, because by doing that I missed a specific moment, the moment when I turned to see their response (when I saw them coming rushing from the club), because during that specific moment, the object turned from the bright ball light into the cylindrical object; that moment was of great interest to me, because it shows how the operational mechanisms of the object came into action? he replied "but now at least you do have people who can believe in what you have seen", continuing "do you think I can believe you if you return back telling me that you saw a huge cylindrical object flying over Kampala without a wing and a sound?"

Whether he is justified or not, I felt there was something important missing part to be seen at that historical moment, but on the other hand the presence of my friend formed some confidence, without which one can force to doubt about his own mental capabilities.

I couldn't determined what was important, because what may looks important for me not necessarily be for others, may be with an internal pressure one can reach an state of doubting his own sense, due to the external reaction.

In that second meeting I asked him about the number of portholes, he said it was either five or six, but Mrs Annette said it could be even fourteen, of course she over estimated the number, maybe due to her emotional state at that moment.

3:0 WHAT IS A UFO?

Understanding the meaning and depth of what we had witnessed, particularly after having a hard time with some journalists at the *New Vision* (a leading newspaper in Uganda), and then an officer in the metrological department at Entebbe office, who had reported to the journalists at the above paper that, what we saw "most likely a low-flying satellite," and added that, "if the object allegedly seen over Kampala skies was moving from South to North, it was likely to have been a satellite," and that, "such satellites, usually at about 40 km above sea level were used to collect data, especially by taking photographs" [6].

We certainly saw something, but it was misinterpreted by others to an extent which shook our confidence in our own senses and logical analysis, so that above all no body can ever believed what we saw.

This object, as I later realized and understood through *UFO* literature, was of course what is referred to as being an Unidentified Flying Object (*UFO*) [7, 8]. Needless to say, *UFOs* cause great confusion and frustration among officials whenever witnesses report them because they contradict the present knowledge of Science [9, 10], and perhaps because those contradictions get amplified because of the differing interpretations of them that are provided by various groups involved in the Ufology field who work from different backgrounds and interests, and so the whole subject of Ufology has become an untouchable field of research.

But for me, I became obsessed with the whole episode, because it had raised the challenge of thinking in the wonder behind the power source of that moving energy.

4:0 CAN THE PRESENT FUNDAMENTAL PHYSICS THE PROBLEM?

For me, the continual question was; "what is the propulsion mechanism behind such spaceship? And on what science is it based?"

That same question was asked by others, the search for that answer was conducted from the present fundamental physics, or how can we explain these Symposiums conducted by NATO to study different mechanisms of aurora? [11].

If *UFOs* are driven by aurora related mechanisms, with curvature structures, can it be decoded to give meaningful interpretation using present fundamental physics? It is strange that with the present great developments in quantum mechanics, and technological achievements, the present scientific knowledge about aurora mechanisms is too faint, for instance, how do the low energy solar winds become amplified to such enormous energies at the magnetosphere boundary? [12, 13] Failure to understand this has led to the present failure to exploit natural Universal Energies.

That same aurora is known and seen to manifest itself in different forms of curvatures, with names reflecting that such as, arc, band, Coronal and corona [14], others takes

the fan shaped corona of geomagnetic field [15]. It is also known that aurora takes the form and curvature of low geomagnetic fields [14, 16], and that aurora light is due to some mechanism related to the presence of enormous amounts of electrons and protons (charged particles) around these fields [16]. With occurrence of aurora on earth and [Jupiter](#) [17] therefore, it could be a universal phenomenon that may possess a fundamental and natural mechanism.

On the other hand, there is a need for more clarification in the realm of fundamental physics regarding the nature and mechanisms regarding the issues of magnetic forces, atomic structure, nucleus binding force, formation of neutrons, disintegration of neutrons and etc ... Similarly, the role of magnetic force in bonding electrons with proton in the nucleus is confused, as too the fusion question! Let alone the question of subatomic particles?

Answers to these and other questions, can help in the understanding of the curvature aurora, which could open a new dimensions for the required energies, but since these answers have not been seriously addressed these questions will remain unanswered. On the other hand, QM closed many doors for other alternatives, while at the same time by considering UFOs witnessed in the sky as a bad dream or a hallucination, or at best, regard as enigmas that continually challenge the scientific world [9].

The present foundation of physics developed by Quantum Mechanics interpretations, was based on mathematical arrangements for the natural phenomena, it has reached its maximum ability in explaining past and present experimental phenomena. These mathematical manipulations can't allow for an invention that can fulfill future human needs, because it lost touch with nature when it developed for itself assumptions that were based on probabilities rather than discovering the true mechanisms of the natural microscopic world, and because nobody question whether nature so complicated in performing its tasks? Nobody except the great Einstein of course! [18].

Present situation forced some caring scientist, while advocating for present new researches to state that "it will take a more open minded scientific community than the present one to even consider the reality of what has been thus far reported" [1].

5:0 THE PROPOSED NEW FUNDAMENTAL PHYSICS

When I failed to get answers for the red light curved bands or aurora (of the Alien spaceship) within the present sciences and fundamental physics, I returned back into history searching for a clue, it all concentrated in the history of the magnetic field and the following three equations:

When the magnetic effects due to electric current was discovered in 1819 by Hans Christian Oersted [19], André Ampère determined the circular shape of the magnetic field around conductor carrying electric current [20], and gave formula for a force between two conductors carrying electric current as:

$$F = \frac{2 k l I_1 I_2}{d} \quad N \quad (1)$$

Where, k is 10 N/A, I and I are the current in both conductors in amperes, l is length of the conductors in meters, d is distance between both conductors in meters and the force F is in Newton.

On the other hand, magnitude of magnetic field around moving electrons or protons or their circular magnetic field (*CMF*) [21, 22, 23] is given by

$$B_2 = \frac{q v}{r_m^2 c} \quad T \quad (2)$$

Where, c is the speed of light, q is the particle's charge in coulombs, v is the charged particles velocity in ms^{-1} , r_m is the magnetic radius at which the CMF is measured (representing r_{me} and r_{mp} or electron's and proton's magnetic radius respectively). The circular magnetic field B_2 is given in Tesla.

The Lorentz force is given with electric-magnetic parameters by

$$F_{e.m.} = q v B_1 \sin \theta \quad N \quad (3)$$

Where, θ is the angle between the trajectory and the fields the force $F_{e.m.}$ is in Newtons.

Equations (1 and 3), while expressing magnetic forces; they were formulated using electrical parameters.

An interpretation of the magnetic forces using magnetic parameters was presented in four papers, they are:

a- THE MAGNETIC INTERACTION HYPOTHESIS (MIH) [24]

Mechanism behind the attractive and repulsive forces given by Eq.(1) is due to the interaction of magnetic lines of force attractively or repulsively, therefore, the force is expressed magnetically by

$$F_m = \frac{B_{c1} B_{c2} r_1 r_2 l_1}{2k} \quad N \quad \{4\}$$

Where, constant $k = 2 \times 10^{-7}$ Newton per square ampere, B_{c1} and B_{c2} are circular magnetic field (CMF) around both conductors (in Tesla) produced by conductors C_1 and C_2 respectively, while r_1 and r_2 are the CMF's radii in metre, l_1 is the length of the conductor in metres.

For the force given by Eq.(3), relating it to Eq.(2), therefore the magnetic force resulted from the Magnetic Interaction, is given by

$$F_m = B_1 B_2 r_m^2 c \sin \theta \quad N \quad \{5\}$$

Where, θ is the angle between the two fields, B_1 is the magnetic field in Tesla, B_2 is the **CMF** produced electrons and protons given by Eq. (2) in Tesla, r_m is the **CMF's** radius in meters and the magnetic force F is in Newtons.

Eq.{4} and {5} express the dual nature of The Magnetic Interaction (MI), a base upon which a new fundamental physics is established, it suggests and explains to great satisfaction issues such as:

- 1- Magnetic Potential Difference mechanism.
- 2- Energization of charged particles on micro scales.
- 3- Magnitude of spinning magnetic field (**SMF**) produced by protons.

- 3- Interaction of two *SMF* magnetically gives raise to nuclear force.
- 4- Atomic model, stabilized by balance of electrostatic and magnetic force.
- 5- Orbital electron is continually energized and dissipated by the motion.
- 6- Specific energy, radius, velocity is possessed by orbital electrons.
- 5- Production of spectral lines in reproducible manner, and in line with Planck's theory.

b- ELEMENTS OF THE MAGNETIC LINES OF FORCE (EMLF)[25]

The paper shows elements of the magnetic lines of force such as,

- 1- Number of *Magnetic Lines of Force (MLF)* per unit area.
- 2- Number of *MLF* along sides of an area.
- 3- Distance between two *MLF*, as derived from specific magnetic field.
- 4- How to obtain magnetic field when above elements are known.

c- THE SPINNING MAGNETIC FORCE (SMF)[26]

The paper deals with the following issues:

- 1- Suggested magnitudes for the polar *Spinning Magnetic Field (SMF)* produced by protons, electrons and neutrons.
- 2- Presents *Spinning Magnetic Force (SM-force)* or the nuclear force that results from interactions of electrons protons and neutrons with each other.
- 3- Production of neutrons from interaction of electrons and protons.
- 4- Energies resulting from these interactions and mass changes.

d- The UNIVERSAL ENERGIES (UE)[27]

This paper suggested the followings:

- 1- A mechanism for macro-energization of electrons and protons.
- 2- Production of *External Magnetic Field (ExMF)*.
- 3- Proton fusion mechanism.
- 4- Energies resulting from the above fusions.
- 5- Electron fusion or a mechanism that produces *Angel Hair* [28].

6:0 THE EXTERNAL MAGNETIC FIELD PROPULSION

Outer space is a natural dream for humanity; these dreams were intensified by space flights of both Yuri Gagarin and Neil Armstrong who executed this part of the deep rooted desire of humanity to liberate itself from this universal jail.

The External Magnetic Field Propulsion is aimed to fulfill these desires and to help the process by providing the renewable, alternative and environmentally-friendly energy for the prosperities of our planet earth.

As a dual or an alternative scientific base, the *MI* hypothesis with related papers, provides the bases to investigate and develop some phenomenon, such as:

- 1- Energization of charged particles which represents the main Aurora mechanism.
- 2- Production of intense external magnetic field (*ExMF*) out of the atom.
- 3- Utilizing Faraday's discovery in 1832, that diamagnetic materials are repelled by magnetic field [19].
- 4- An experiment conducted for Kapitza magnetic field in 1923, where a glass rod 3 mm. in diameter was subjected to a magnetic field of 30 Tesla, a strong translational force resulted in repelling the glass rod to height of 7 to 8 [19].

5- In line with the above, University of Nijmegen in Netherlands, managed to levitate living organs, such as, [Flying Dutch frog](#) [29, 30], agitate water [31]. These hints represent scattered ideas that were then grouped together and linked with the above sighting, which lead to the suggestion for a device to capture and energized electrons [32]. The system consists of an electric motor the spindle of which is fixed with another electric motor that is attached with solenoid, the rotating low magnetic field (**RLMF**) produced by this solenoid when it interacts with an ionized electrons (by near to ultra violet bright light), produces an **ExMF** that will build up, with many electrons leading to an energization of the electrons [27], if several turns of conductor are fixed in front of such a rotating **ExMF**, an electromotive force will be produced on the terminals, the idea [33] is used to develop Searl effects Generator (**SEG**) [34], given by THE MODIFIED ROSCHIN GODIN SEARL GENERATORS, ([M-RG-Searl-G](#))

.The unit, if assembled with a diamagnetic material (bismuth), in which the **RLMF** is made to penetrate through the bismuth, where it interacts with the ionized electrons an **ExMF** is produced which energizes the electrons [27], hence the **ExMF** interacts with the bismuth to produce the **ExMF** operational force (F_{ExO}) given by

$$F_{ExO} = (\chi_D - \chi_a) \frac{V_D}{2\mu_o} \frac{B_{EI}^2}{l} \quad N \quad (6)$$

Where, χ_D is the susceptibility of the bismuth, χ_a is the susceptibility of the air between the diamagnetic material and the produced **ExMF**, V_D is the volume of the bismuth upon which **ExMF** falls in m^3 , l is the length of the produced **ExMF** (or the vertical field gradient), B_{EI} is the intensity produced **ExMF**, and the produced **ExMF** operational force (F_{ExO}) is in Newtons.

The produced **ExMF** operational force (F_{ExO}) can then be used to drive different systems such as rotating machines (to generate electricity), wheel based wagons, track wagons, sea vessels, drilling machines, and inter-Earth flying objects and spaceship for outer-space travel, as shown in Fig.1.

7:0 STRUCTURE of THE FLYING OBJECTS (FO)

The cylindrical type of presented new flying objects (**FO**) is shown in Fig.1, named Mothership Jedia (**M-Jedia**), another type is a saucer or an oval shaped ship named Sky Kush (**S-Kush**) [32].

Both **FOs** consist of an external body made of bismuth 1 it is part of the propellant and internal body 2 is made of ferromagnetic material to carry the payloads of occupants and instruments and serves to divert the intense (and potentially harmful) **ExMF** from the interior.

8:0 FORCES OF THE FLYING OBJECTS

For **M-Jedia** shown in Fig.1, to fly, it should raise from the ground using the **ExMF** ascending force (F_{ExA}), then at desired altitude the F_{ExA} can be reduced to balance with the local gravitational force (F_g), thus an **ExMF** levitation force (F_{ExL}) results which allows **M-Jedia** to hover in the air some altitude above the ground level. At that altitude, the **M-Jedia** can operate the **ExMF** driving force (F_{ExD}) to propel it forwardly. Due to the size and shape of **M-Jedia**, an **ExMF** stability force (F_{ExS}) will be required to keep it balanced while in flight or while maneuvering into special

inclined positions. Stopping or reducing the speed of *M-Jedia* requires the usage of the *ExMF* brake force (F_{ExB}), which produces a force opposite to the main drive force (F_{ExD}). A combination of both F_{ExA} and F_{ExD} produce *ExMF* resultant force (F_{ExR}) which gives various flight trajectories and velocities.

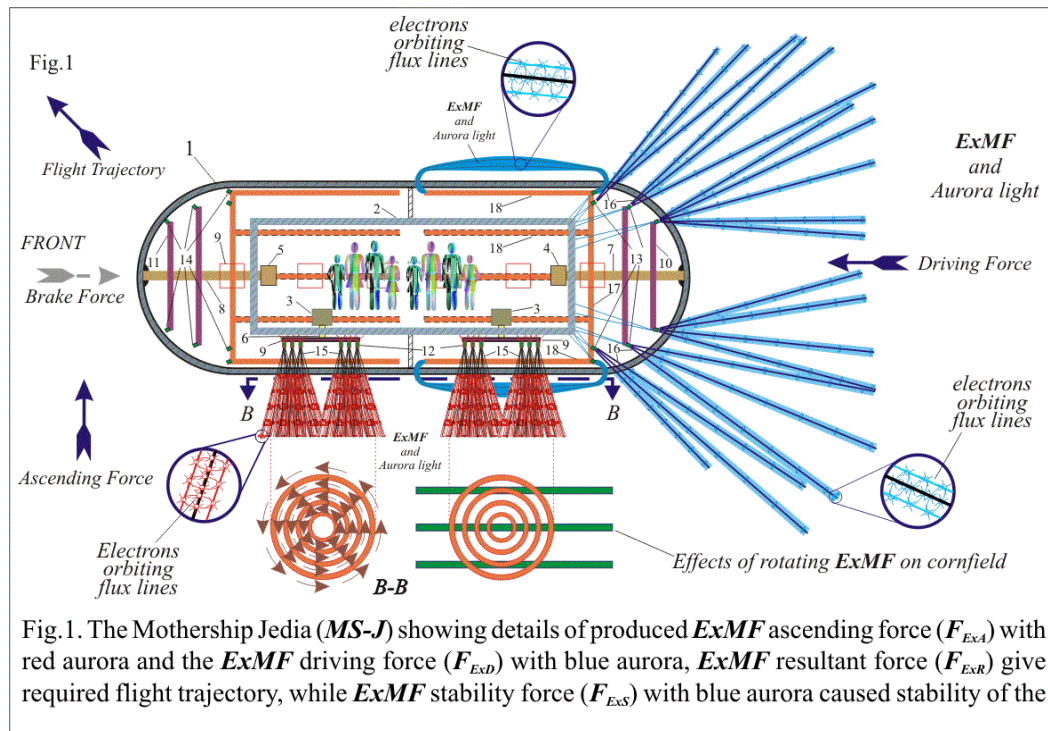


Fig.1. The Mothership Jedia (*MS-J*) showing details of produced *ExMF* ascending force (F_{ExA}) with red aurora and the *ExMF* driving force (F_{ExD}) with blue aurora, *ExMF* resultant force (F_{ExR}) give required flight trajectory, while *ExMF* stability force (F_{ExS}) with blue aurora caused stability of the

9:0 OPERATION MECHANISMS OF THE FLYING OBJECTS

The three main forces F_{ExA} , F_{ExD} and F_{ExB} are produced in the following manner: Motors 3, 4 and 5 rotate series of axles and solenoids, thus the produce *RLMF* 15 and 16 that penetrate the bismuth 1, which then interacts with the ionized electrons producing *ExMF* with aurora light [35]. The *ExMF* interacts with the bismuth 1, where the following forces can be produced:

- 1- *ExMF* ascending force (F_{ExA}) thereby lifting *MS-J* upwards.
- 2- *ExMF* levitation force (F_{ExL}), when $F_{ExA} = F_g$, allowing *MS-J* to hover at some altitudes above the ground.
- 3- *ExMF* driving force (F_{ExD}), moves *MS-J* forward.
- 4- *ExMF* brake force (F_{ExB}), as *MS-J* is propelled by enormous force, this force is produced at the front to reduce the speed or stop the *MS-J*.
- 5- *ExMF* resulting force (F_{ExR}), results from both F_{ExA} and F_{ExD} , it determines the trajectory flight of *MS-J*.

As an elongated cylindrical in shape, *MS-J* needs a stability force during flight or while hovering, as shown in Fig.1, motor 4 rotates axle 7 on which a plate 17 is mounted on bearings, it is connected with eight long solenoids 18 with special electric motor to rotate the solenoid, each of which produces *RLMF* out of *MS-J* which interacts with the ionized electrons, producing *ExMF* and aurora light. The *ExMF* interacts with bismuth 1 producing *ExMF* F_{ExS} force, shown in Fig. 1.

The distance covered by the stability solenoids extends from mid-way to the end of the Mothership and there will be generated a substantial balance force that should be adequate for most flight situations.

10:0 SOME CHARACTERISTICS OF THE EXMF-PS OPERATIONAL

Operation characteristics of *ExMF-PS* for Mothership Jedia, can be related as similar to numerous phenomena observed by UFO witnesses, as reported in books [7, 9, 10, 36], these characteristics, include the following:

Production of momentarily strong force (which can exceed magnitude of 10^{20} Newton), Hovering, aurora light, emitted smoke, agitation of water, boiling of water, angel hair, floating cloud-like downwards, and its returning back, disruption on ignition electronics of cars and of the grid cables, generation of heat, spinning (of the disk shaped like the Kush) [32], radiation of different colors, hum, whistling and complex cornfield circles as shown in Fig.1 formed by rotating *ExMF* that breaks the stalks, this can even produce much stranger shapes.

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11:0 GLOSSARY

B_{EF}: Intense produced *ExMF*.

ExMF: External Magnetic Field.

ExMF-P: External Magnetic Field Propulsion.

ExMF-PS: External Magnetic Field Propulsion System.

F_{ExA}: *ExMF* ascending force.

F_{ExB}: *ExMF* brake force.

F_{ExD}: *ExMF* driving force.

F_{ExL}: *ExMF* levitation force.

F_{ExO}: the *ExMF* operational force.

F_{ExR}: *ExMF* resulting Force.

F_{ExS}: *ExMF* stability force.

F_g: local gravitational force.

FO: flying objects.

F_T: translational force.

MIH: the magnetic interaction hypothesis.

RLMF: rotating low magnetic fields.

SEG: the Searl Effect Generator.

SMF: the Spinning Magnetic Force.

UE: universal energies.

χ_a : susceptibility of material adjacent to the diamagnetic surface (i.e. the air).

χ_D : susceptibility of the diamagnetic material.

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