

Rotation is the Stability of the Universe (The Rotating Electron-Positron Dipole)

*Frederick David Tombe,
Belfast, Northern Ireland, United Kingdom,
sirius184@hotmail.com
24th January 2009, Manila, Philippines
(23rd April 2019 Amendment)*

Abstract. Franz Maria Ulrich Theodor Hoch Aepinus, (1724- 1802), suggested that the attractive forces between two uncharged bodies might be very slightly greater than the repulsive forces, and that this difference might be the cause of gravitation.

The Electron-Positron Dipole Orbit

I. Long ago it was known that space is filled with a primary substance that is the stuff of all matter, and that it is rendered into tiny whirlpools [1], [2]. It is proposed that this electric fluid, known as *the aether*, is pulled into an electron for reasons unknown, and that an aether inflow field is associated with a tension (negative charge), and hence a pull force. It is likewise proposed that pressurized aether (positive charge) emerges from a positron for reasons unknown.

In the case of an electron-positron dipole which is not rotating, the associated electrostatic pull force indicates that there is a net aether inflow and that tension dominates. However, if the electron and the positron within a dipole possess mutual transverse speed, this will introduce vorticity into the aether's velocity field, and if the vorticity is great enough, the flow between the positron and the electron will be broken. The flow lines from each particle will then be sweeping past each other, side on, causing the two particles to push each other apart with centrifugal force. An electron-positron orbit will therefore constitute an interplay between aether pressure and aether tension, while two adjacent rotating dipoles aligned in their mutual equatorial planes will push each other apart. Meanwhile, these dipoles will attract each other when stacked axially, electron to positron, along their mutual rotation axes.

Inflow tension is dominant in the universe until angular momentum increases to such a level as to balance it or reverse it. This suggests that gravity is perhaps a manifestation of mild negative electric charge in the irrotational state.

The Kepler Orbit

II. The Kepler orbit involves large mutually attracting sinks submerged in a sea of tiny rotating electron-positron dipoles. These sinks constitute gravitating bodies which will entrain extended regions of the electron-positron sea with their motion. They are like egg yolks in an extended gravitosphere. Two gravitospheres in a state of mutual transverse motion will slide past each other, physically contacting each other at the interface where their respective gravitational fields meet. The shear zones at the interface will be lubricated by centrifugal repulsion acting between adjacent rotating electron-positron dipoles, hence giving rise to a frictionless hovercraft effect which holds the planets up as they orbit the Sun.

Kinetic energy on the large scale will be measured by the degree of centrifugal pressure that is generated at these shear zones. Kinetic energy and centrifugal force are both manifestations of aether pressure, while gravity is the aether tension along the field lines. Gravitational field lines are kept irrotational since all the vorticity is absorbed by the tiny rotating electron-positron dipoles that fill all of space. This in turn causes the tiny dipoles to precess with their precessional axes aligned with the gravitational field. Hence centrifugal repulsion acts laterally between the two sets of gravitational field lines at the interface.

Gravitational entrainment of the electron-positron sea, as confirmed by the 1887 Michelson-Morley experiment, only occurs in the case of translational motion. Rotational motion does not entrain the electron-positron sea. This was confirmed by the 1925 Michelson-Gale experiment. When a body rotates, the electron-positron sea will flow through that body as like water flowing through a basket. Rotational kinetic energy in a rigid body is centrifugal pressure at both the molecular level and in the immersed electron-positron sea, and in conjunction with a solenoidal alignment of the precessional axes of the constituent molecules of that rigid body.

Gravity Reversal and Electrostatic Repulsion

III. If Aepinus is correct, then there is still an important outstanding question to be answered. If there is a single aethereal fluid responsible for both gravity and electrostatics, it needs to be explained how gravity is a mutually attractive force, while in electrostatics, like charges, whether positive or negative, repel each other. In particular, the question would relate to the issue of under what circumstances might two sinks be caused to repel each other.

It is suggested that when repulsion occurs between two sinks on the atomic and molecular scale, that this is due to the effect that they have on the intervening electron-positron sea. Gravity will cause a torque to act on the rotating electron-positron dipoles, hence causing them to precess with their precessional axes aligned with the gravitational field. This means that, as with the case of magnetic repulsion between like poles, the field lines will spread outwards between the two objects so as to contact each other laterally, hence pushing each other apart with centrifugal force. This is explained in more detail in *“Maxwell’s Equations Extended to Gravity”* [3].

References

[1] O’Neill, John J., *“PRODIGAL GENIUS, Biography of Nikola Tesla”*, Long Island, New York, 15th July 1944, quoting Tesla from his 1907 paper *“Man’s Greatest Achievement”* which was published in 1930 in the Milwaukee Sentinel, *“Long ago he (mankind) recognized that all perceptible matter comes from a primary substance, of a tenuity beyond conception and filling all space - the Akasha or luminiferous ether - which is acted upon by the life-giving Prana or creative force, calling into existence, in never ending cycles, all things and phenomena. The primary substance, thrown into infinitesimal whirls of prodigious velocity, becomes gross matter; the force subsiding, the motion ceases and matter disappears, reverting to the primary substance”*.

<http://www.rastko.rs/istorija/tesla/oniell-tesla.html>

<http://www.ascension-research.org/tesla.html>

[2] Whittaker, E.T., *“A History of the Theories of Aether and Electricity”*, Chapter 4, pages 100-102, (1910)

“All space, according to the younger Bernoulli, is permeated by a fluid aether, containing an immense number of excessively small whirlpools. The elasticity which the aether appears to possess, and in virtue of which it is able to transmit vibrations, is really due to the presence of these whirlpools; for, owing to centrifugal force, each whirlpool is continually striving to dilate, and so presses against the neighbouring whirlpools.”

[3] Tombe, F.D., *“Maxwell’s Equations Extended to Gravity”* (2017)

https://www.researchgate.net/publication/322317219_Maxwell's_Equations_Extended_to_Gravity_The_Link_Between_Gravity_and_Electromagnetism