

# **Light-Induced Electromagnetic Spinning as one of the Sources for the Field Gyroscope.**

## **The Field Gyroscope as a Base of the Yin and Yang Energies**

Mark Krinker

Department of Electrical Engineering and Telecommunication Technology, City College of Technology, CUNY, New York.  
mkrinker@aol.com

The phenomenon of Light-Induced localized electromagnetic spinning, the Field Gyroscope, was observed in experiments with the new model of SEVA - the instrument for studying spinning fields. Presence and absence of the light causes a radio-frequency localized spinning of opposite directions, respectively. The experiment proved the earlier conception of the author claiming origination of localized spinning basing on Huygens–Fresnel Principle. The mechanism of excitation of the radio-frequency spinning by much higher frequencies of the light has been discussed.

### **1. Spinning Localized Electromagnetic Field – The Field Gyroscope**

Back in early XX Century, N.P. Myshkin, Russian physicist, noted the phenomenon of rotation of the blades of Crookes radiometer even without visible sources of light. He repeated the experiment with a small disc, suspended with a thin filament, having the same result- the disc reacted on even invisible sources of some force. Myshkin considered it as a manifestation of some ponderomotive force of unknown nature [1-3].

Actually, that was a manifestation of a mechanical action of the Field Gyroscope (FG) caused by a visible and invisible electromagnetic radiation, including the light. FG is a spinning localized electromagnetic field, having an angular moment as well as other features of a conventional gyroscope yet specific ones, eminent to its electromagnetic nature [4-10]. Unlike the traveling elliptical polarized wave, it does not transfer the energy and remains localized in a same constant volume, defined by the dimension of the source of its parent vectors. In other words, Umov-Pointing vector of FG equals zero.

The author of this publication has developed a conception of origination of the spinning fields in a flux of electromagnetic field, basing on a combination of Huygens–Fresnel Principle and fluctuations of the Physical Vacuum [4].

The basic conception of the concept is shown in Fig.1. The electric vector  $E$  of a light wave can be shown as a sum of two vectors  $E_1$  and  $E_2$ . Statistically, one of the directions, let's say  $E_2$ , can be affected by the fluctuation of the Vacuum, which results in a phase shift between  $E_1$  and  $E_2$ . Therefore, the vectors  $E_1$  and  $E_2$  become the parent vectors for originating the localized spinning vector  $E_3$  – the Field Gyroscope. However, the interference nature of Huygens–Fresnel Principle supposes another way of origination of the localized FG as a routine of the interference process.

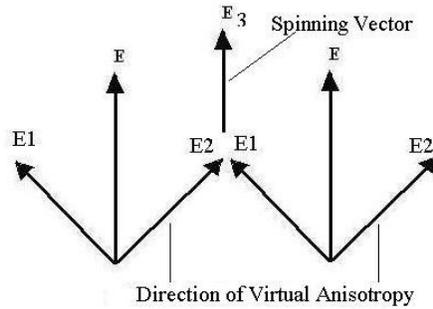


Fig.1. Origination of spinning vector  $E_3$  of two parent vectors  $E_1$  and  $E_2$  in a light flux. The spinning is stimulated by a virtual phase shift between the vectors.

For the purpose of studying FG-phenomenon, the special instrument, Spinning Electric Vector Analyzer, SEVA, was developed by the author since 2003 [8,9].

Fig.2 shows some of the earlier versions of the instrument. This instrument is capable to detect lines of Geo-Pathogenic Zones as well as phases of a full Moon, Lunar Eclipses and other astronomical events, related to origination of FG. The instruments were employed in first successful attempts to observe light-induced FG, as well.

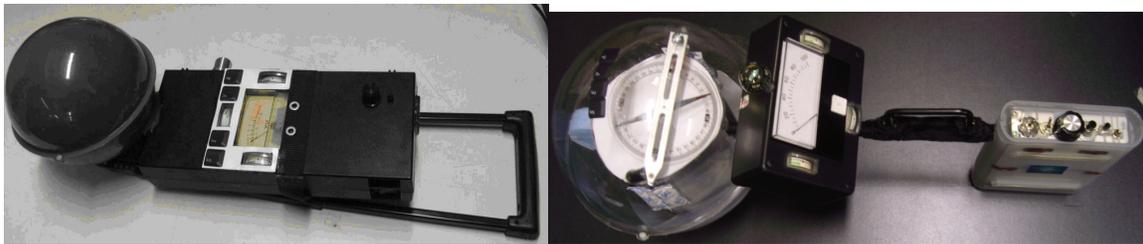


Fig.2. Some of the earlier models of SEVA. First successful experiments on the Light-Induced FG were conducted with these instruments.

FG is a complex system even within a narrow band of the driving frequencies, Fig.3. It can produce a mechanical torque due to its real mass and varying angular momentum at a non-stationary spinning [5-7,10].

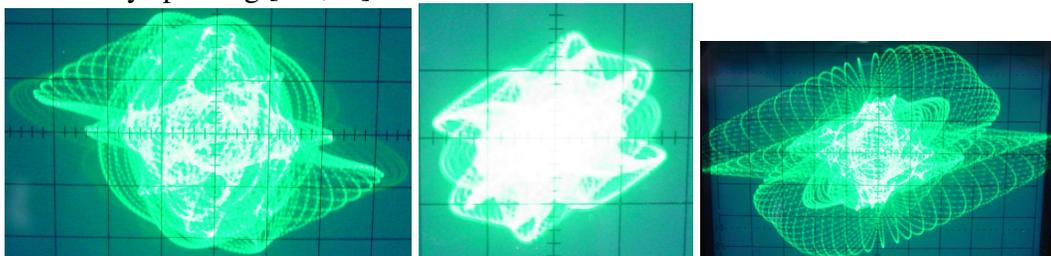


Fig.3. Shapes of narrow-band FG in a vicinity of different objects. Non-stationary spinning is obviously seen here.

The latest model of the instrument, *SEVA-Integral-M*, recently was used for a more conclusive experiment on the Light-Induced FG. The instrument measures the integrated spinning of the electromagnetic field within 100Hz-250 MHz band.

It measures the electric spinning in the units of the spinning  $\mathcal{S}$ , as it was earlier introduced by the author in [5-8].

Spinning Fields are quantum objects. They can be described with quantum numbers. On the other hand, they can be shown as a vector product of the parent vectors. Both forms are equal.

$$\vec{S} = \sum_{\omega_i}^{\omega_n} \omega_{ik} \Delta\varphi_{ik} [\vec{E}_i \vec{E}_k] = ks\hbar \quad (1)$$

As a quantum system, FG is an electromagnetic manifestation of the Torsion Field, derived by any rotating process and classified as *bosons* [14].

The Hypothesis about the boson nature of quanta of the Torsion field was first spoke out by Dr. V.A. Zhigalov under umbrella of [www.second-physics.ru](http://www.second-physics.ru)

The instruments displays the spinning as an output voltage,  $\pm 200mV = kS$ . The sign defines the direction of the resulting spinning.

## 2. Light-Induced FG Experiment

The processed diagram of the experiment is shown in Fig. 4.

In the experiment, the sensor of the SEVA instrument was subjected to a variation of 60 luxes illumination, produced by day light bulbs. The distance between the bulbs and the sensor was 3m. The electromagnetic field in the room was 1.5 mG (measured with TENMA 72-3025 EMF meter) and there were no visible changes of that during ON/OFF variations of the illumination. Therefore, there was no direct influence of the electromagnetic field, produced by the bulbs and their chokes, on the registered spinning process.

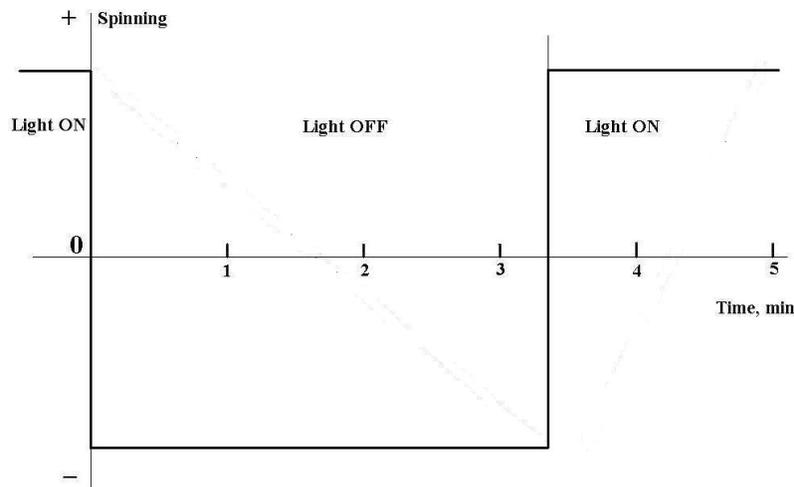


Fig.4. Light-Induced variation of the integral electromagnetic spinning (up to 250MHz) driven by the day-light bulbs.

The experiment was conducted in Manhattan, New York, in August 2014. Employing artificial and natural illumination brings the qualitatively identical results.

### **3. Explanation of the Experiment**

From the common sense, there is a logic contradiction in that the spinning does not drop to zero when the light is OFF.

The author sees two possible explanations of that.

1. According to the model of [4], the absence of the illumination has to result in a zero-spinning, if there are no other sources of that. However, the spinning, having one direction, disturbs the initial field angular momentum in the room. According to Le Chatelier-Brown Principle, the opposite spinning has to originate to minimize the total balance of that. This anti-process minimizes the total spinning within some finite values. This is what takes place when the light is ON. When the light is OFF, the already produced anti-spinning remains valid due to the known remaining spinning of the Field Gyroscope, fixed on the video [11].
2. Another explanation. The OFF-light spinning is nothing but that driven by an electromagnetic radiation of the thermodynamic equilibrium, which has the opposite sign to that of the non-equilibrium ON conditions. At the room temperatures, the maximum of the equilibrium radiation is accounted for by the wide GHz band, which overlaps the operating band of the SEVA. This matches experiments of N. P. Myshkin, who noted a turn of the disk of his setup even with no visible light.
3. Mismatching of light frequencies and much lower that registered by SEVA-Integral-M can be explained on the analogy with the luminescence in solids. Paradoxically, but Vacuum can be likened to absolute rigid body, because only in this media light can propagate with its speed of 298000 km/s. The frequency of the radiated light is lower than that of the incident one in the classical luminescence. Some experiments with earlier SEVA have shown that the spinning of 3.5 MHz produced by the Axion field generator by A. Shpilman was registered by 6kHz adjusted SEVA [11]

Relation between statistics of quanta and the spinning field was revealed by the author earlier in [12,13]. In those experiments, the spinning field reduced the number of background gamma-quanta for 20% as well as influenced other statistical characteristics.

If FG can control photons, can the photon control the FG? Both the photons and quanta of the Torsion Field are the bosons, according to the quantum statistics. The reversibility of this process looks pretty plausible.

### **4. Analogy with Yin and Yang Conceptions of the Feng Shui**

The Yin and Yang energies are fundamental conceptions of the Feng Shui.

The Yin is associated with darkness, while the Yang is an attribute of the light. From the experiment above, we see the physical bases of these concepts. The experiment has revealed that the localized electromagnetic spinning, the Field Gyroscope, can be directly correlated with these energies in terms of the direction of the spinning, the angular momentum and other attributes.

### **Conclusion**

1. The hypothesis [4], claiming origination of the spinning electromagnetic fields and derived by them Torsion Fields in a flux of light was experimentally proved with the latest model of the Spinning Electric Vector Analyzer *SEVA-Integral-M*.
2. The light produces the localized radio-frequency spinning - the Field Gyroscope. Reduction of the frequency between the light quanta and the radio-quanta is explained by the authors as an analogy with a luminescence phenomenon, produced by the virtually stiff Physical Vacuum.
3. The termination of the light flux caused the opposite sign spinning rather than a cease of that. The phenomenon can be explained either as an existence of the opposite spinning, according to Le Chatelier-Brown principle, or by the spinning, produced by thermodynamic equilibrium radiation in the darkness at room temperatures.
4. The observed phenomenon explains the physical base of Yin and Yang conceptions of Feng Shui as opposite spinning Field Gyroscopes of natural origination.

### **Acknowledgment**

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