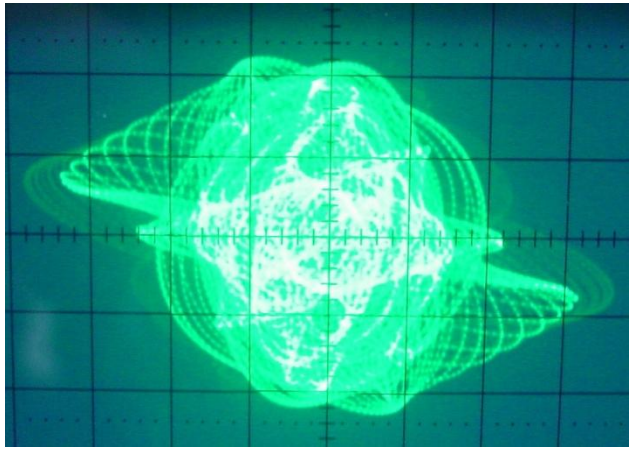
Applied PhysTech Research Group



Field Gyroscope and Its Social Impact

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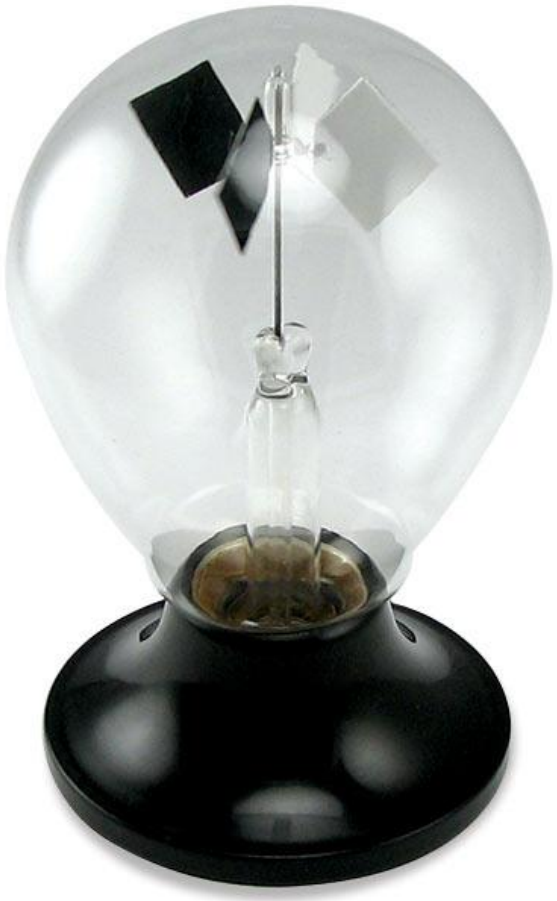
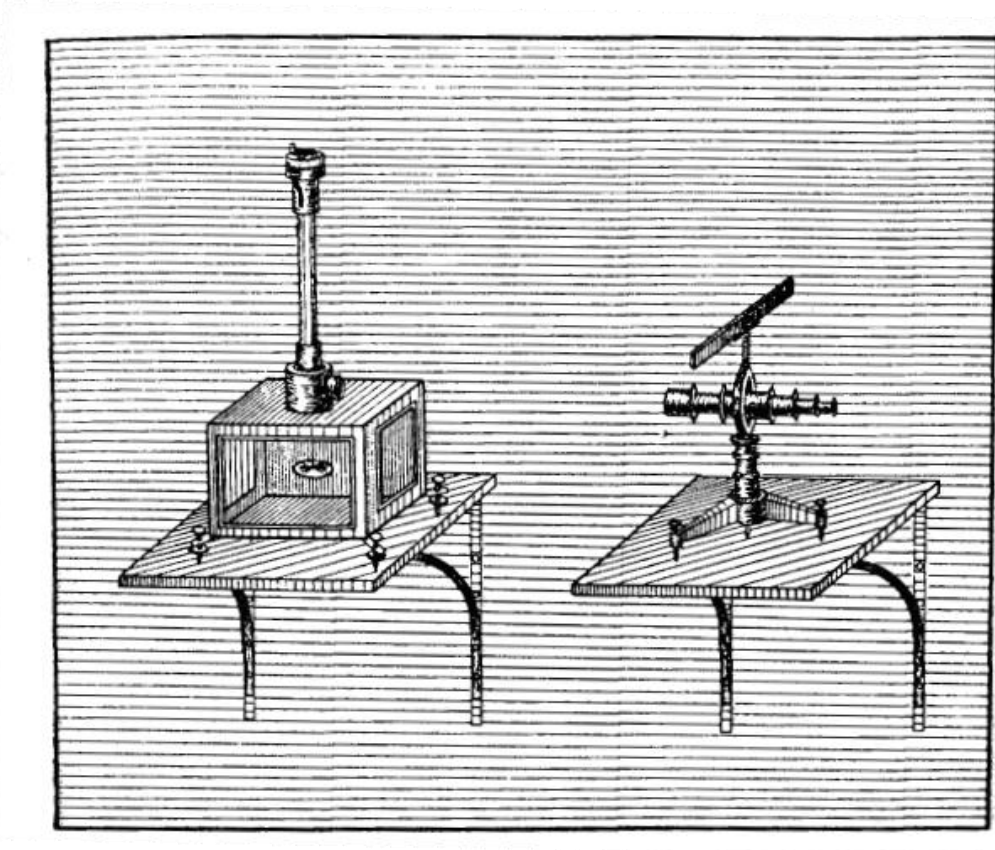
Prof. N.P. Myshkin's and Crookes' Experiments

- At the joint of 19th and 20th Centuries, Russian Prof. N. Myshkin conducted series of the experiments on the Crookes radiometer.
- The results contradicted the common sense.



N.P. Myshkin's Experiments

- The blades of the radiometer experienced rotation even in the darkness, without a visible light. Myshkin defined these mysterious forces as some ponderomotive forces.



Twisting Forces

- “……*in the emptiness of the Crookes tube, the process of a radiation is accompanied with origination of such a pair of forces for the irradiating body, which tends to rotate it counterclockwise, while the process of light absorption is accompanied with a clockwise rotation of the body.”* N.P. Myshkin

Landmarks

- 1922. E. Cartan speaks out the hypothesis :
  The Space around a spinning matter gains a torsion.

- E. Cartan, A. Einstein: *Torsion Fields* –the very First Claims: Any rotation creates a specific field they called a *Torsion Field*. But this remains a pure theoretical construction for the decades.
- Late 1950's- First experiments of Dr. N.A. Kozyrev with a non-stationary gyroscope.
- 1960's- Kozyrev claims a weight reduction at the non-stationary rotation of the gyroscope.

Landmarks

- 1960’s-1980’s- Prof. A.I Veinik, Belorus Academy: The Chronal (Temporal) Field Conception as an explanation of these phenomena. He controlled a time flowing with the spinning processes.
- 1989: Another verification of Kozyrev’s experiments:

  H. Hayasaka and S. Takeuchi (Japan) published results of their experiments, in which they showed that the fall-time of freely falling spinning gyroscope depends on the angular velocity.

Landmarks

- 1991: Russian theoretical physicist G.I.Shipov showed that the anomaly behavior of gyroscopic systems was caused by the appearance of the torsion fields, generated by spinning masses.
- 1990s- Theory of Torsion Fields (TF) by A.E Akimov. He develops TF generators and receivers.

Landmarks

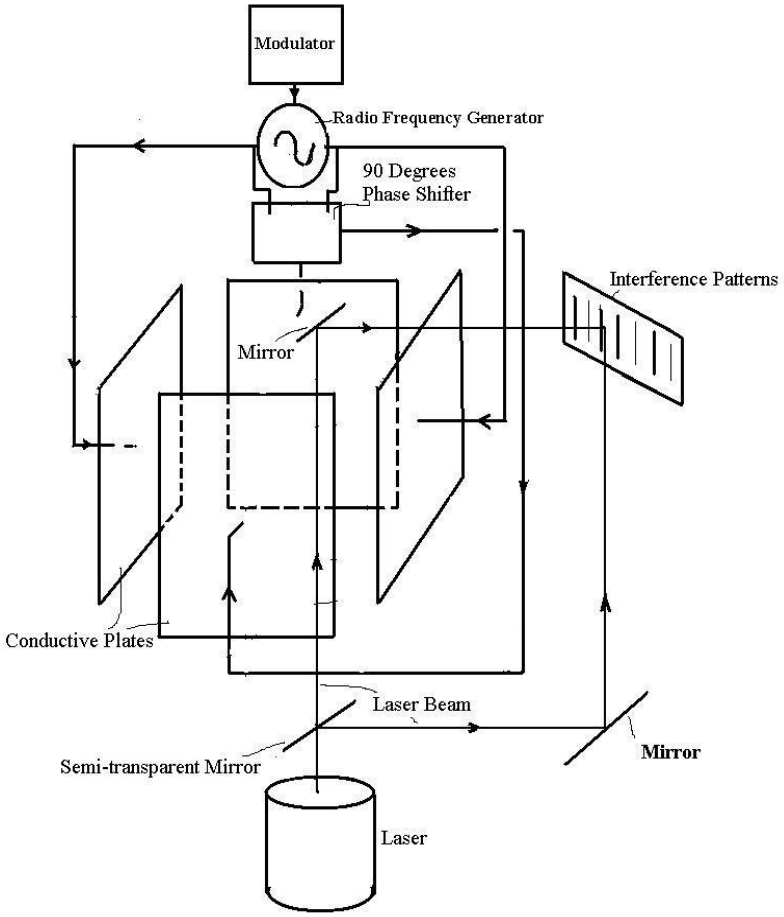
- 1993: G. I. Shipov- Theory of Physical Vacuum.
- Shipov: *Torsion Fields are the fields of Inertia.*
- He introduces 6 angle coordinates into Einstein's Gravity-Curvature equation, relating, therefore, a curvature of the space and the gravitation to the spinning.

The Field Gyroscope

. The Field Gyroscope is a localized spinning electromagnetic field.

Unlike the traveling wave, all its mass remains in the same volume. By this reason, its Umov-Pointing vector is equal to zero.

- The spinning vector ***Es*** is developed by 2 orthogonal parent vectors ***E1*** and ***E2,*** shifted in a phase.

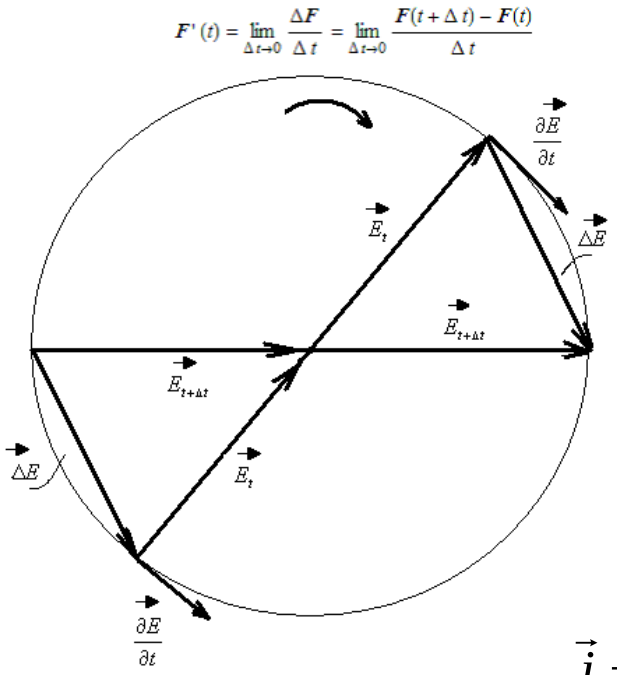


$$\vec{E}_1 = \vec{E}_{01}\sin(\omega_1 t) \qquad \vec{E}_2 = \vec{E}_{02}\sin(\omega_2 t + \varphi) \qquad (1)$$

$$E_s(t) = \sqrt{E_1^{\,2} + E_2^{\,2}} \qquad \alpha(t) = \arctan\frac{\vec{E}_2(t)}{\vec{E}_1(t)} \qquad (2)$$

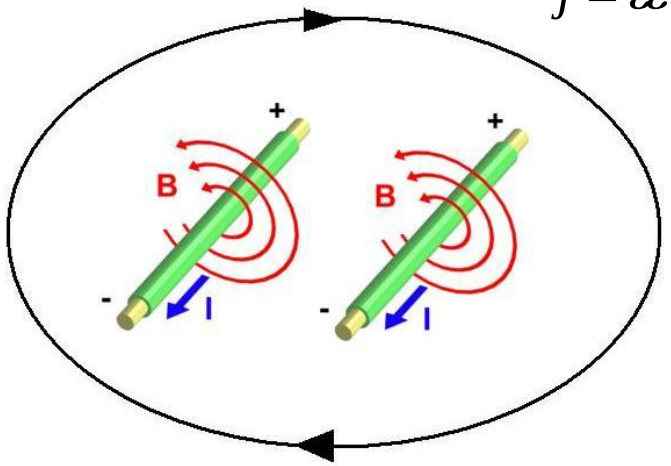
FG: Spinning Electro-Magnetic Field

- Origination of the spinning magnetic field from initially conservative E-field.



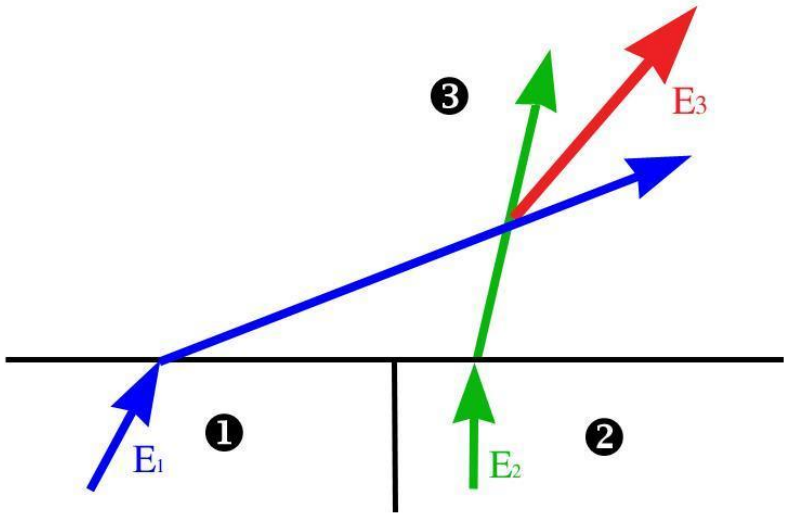
$$\vec{j} = \varepsilon\varepsilon_0 \frac{\partial \vec{E}}{\partial t}$$

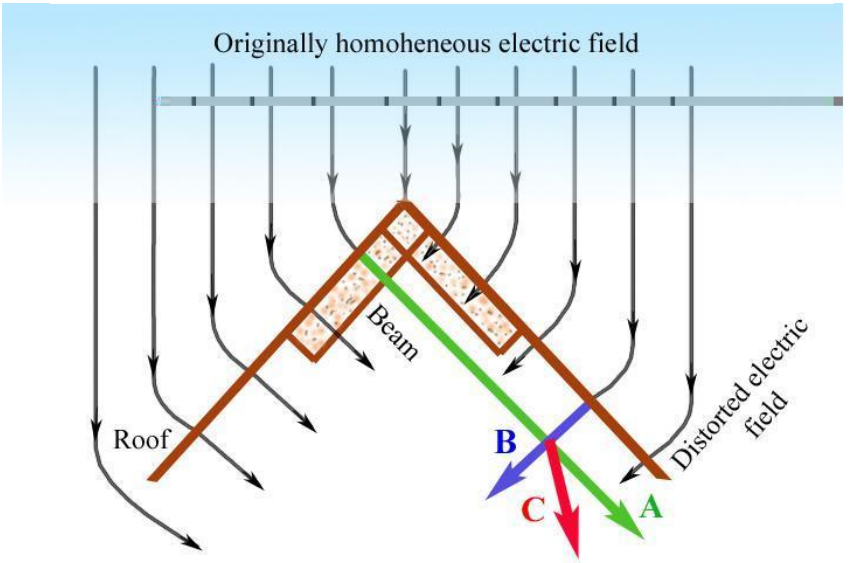
- FG looks like spinning powered conductors.



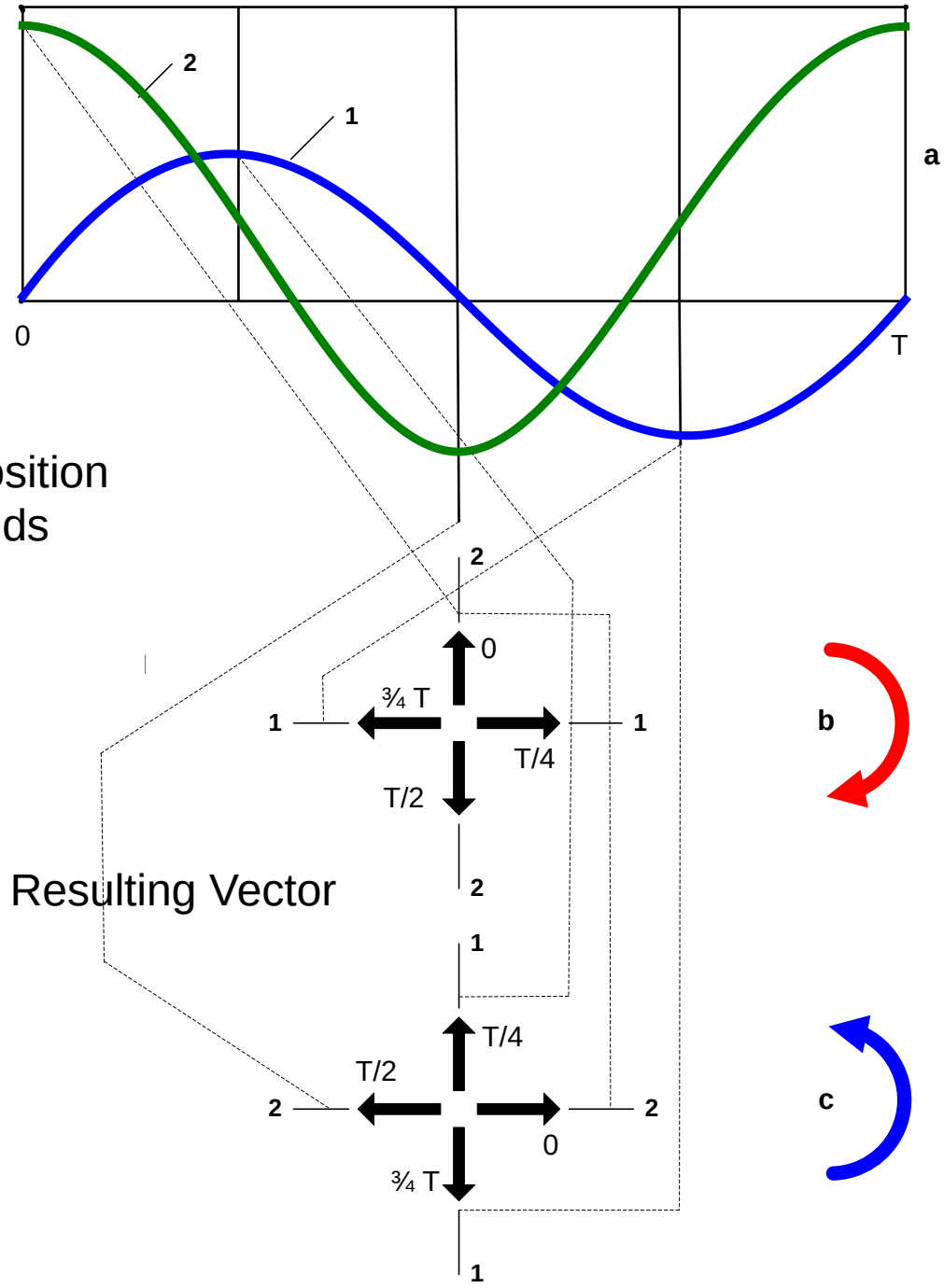
FG in Nature

- Superposition of the refracted vectors, gained a phase shift in different medias. Vector ***E3*** spins.
- One of the possible conditions. The originally uniform field splits, experiences a refraction, phase shift and the FG-driving superposition.
- Geo-faults and subterranean waters are natural sources of FG.





Orthogonal Superposition
of the Parent Fields



Rotation of the Resulting Vector

Parameters of FG

- Mass of FG: $$m = \frac{W}{c^2} \quad (3)$$
- Total energy: $$W(t) = \frac{1}{2}\varepsilon\varepsilon_0 \int_V E_s{}^2(t)dV + \frac{1}{2}W(t)\left(\frac{D\omega}{2c}\right)^2 \quad (4)$$
- Finally: $$m(t) = \frac{\varepsilon\varepsilon_0 \int_V E_s{}^2(t)dV}{2c^2 - \left(\frac{D\omega}{2}\right)^2} \quad (5)$$
- D-diameter of FG
- Quasi-Resonance: $$\omega_r \approx \frac{2.83c}{D} \quad (6)$$

Parameters of FG

- Angular Momentum:

$$\vec{L}(t) = I(t)\vec{\omega}(t) = \frac{m(t)D^2}{4}\vec{\omega}(t) = \frac{D^2\vec{\omega}(t)\varepsilon\varepsilon_0\int_V E_s{}^2(t)dV}{8c^2 - (D\omega)^2} \qquad (7)$$

- Torque: $\frac{d\vec{L}}{dt} = \vec{R}\times\vec{F}$ (8)

$$\frac{d\vec{L}}{dt} = \frac{D^2}{8c^2 - (D\omega)^2}\varepsilon\varepsilon_0\left(\vec{\omega}\frac{d}{dt}\int_V \vec{E}_s{}^2(t)dV + \frac{d\vec{\omega}}{dt}\int_V \vec{E}_s{}^2(t)dV\right) = \vec{R}\times\vec{F}(t) \quad (9)$$

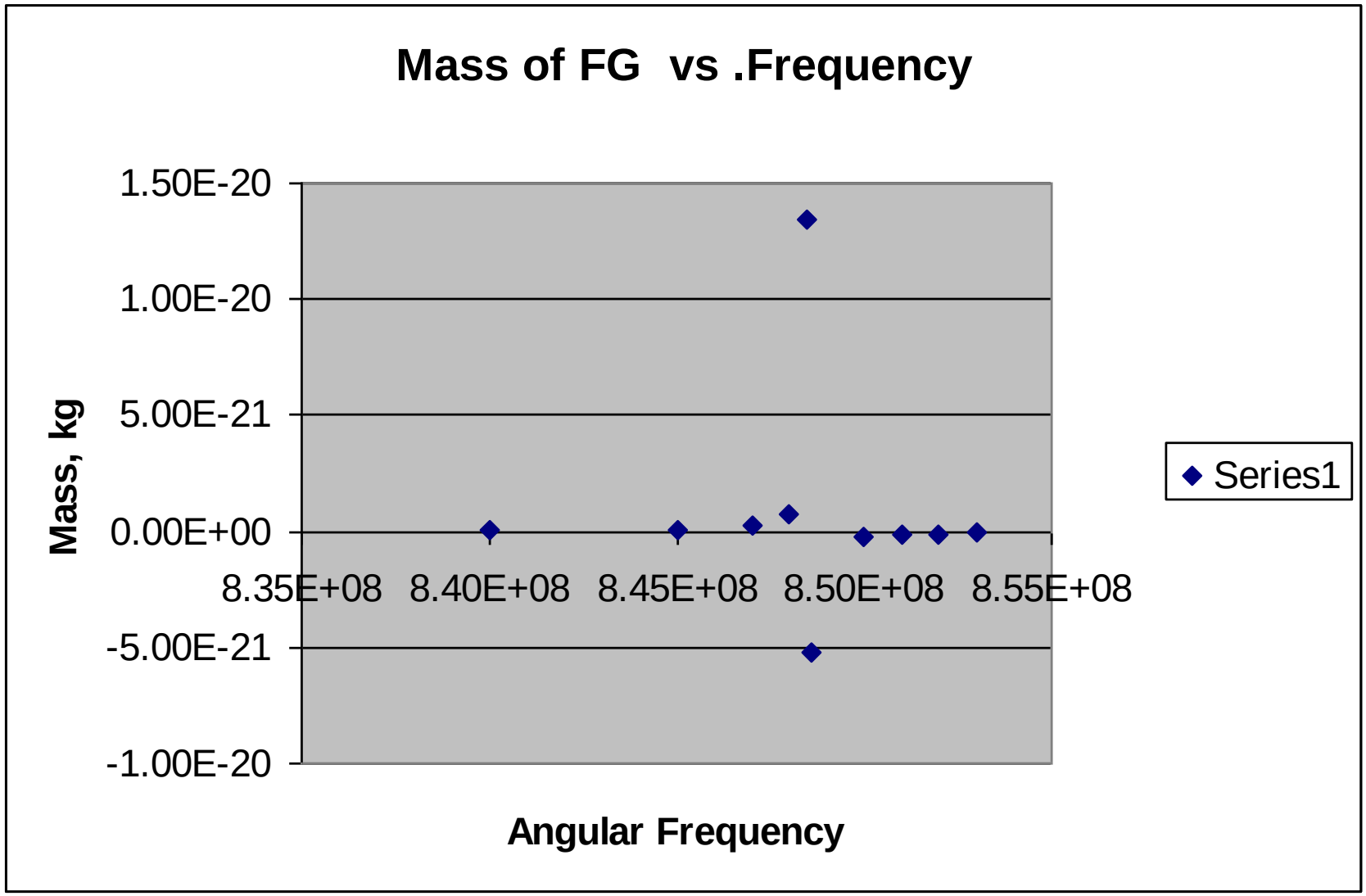
- *D=2R*

- Linear acceleration: $\vec{a}_i(t) = \frac{\vec{F}_i(t)}{m_i} = 4\vec{R}\times\left[\left(\frac{\vec{\omega}_i(t)\frac{d}{dt}\int_V E_s^2(t)dV}{\int_V E_s^2(t)dV}\right) + \frac{d\vec{\omega}_i}{dt}\right]$ (10)

Variation of the FG Parameters

m=m(ω)

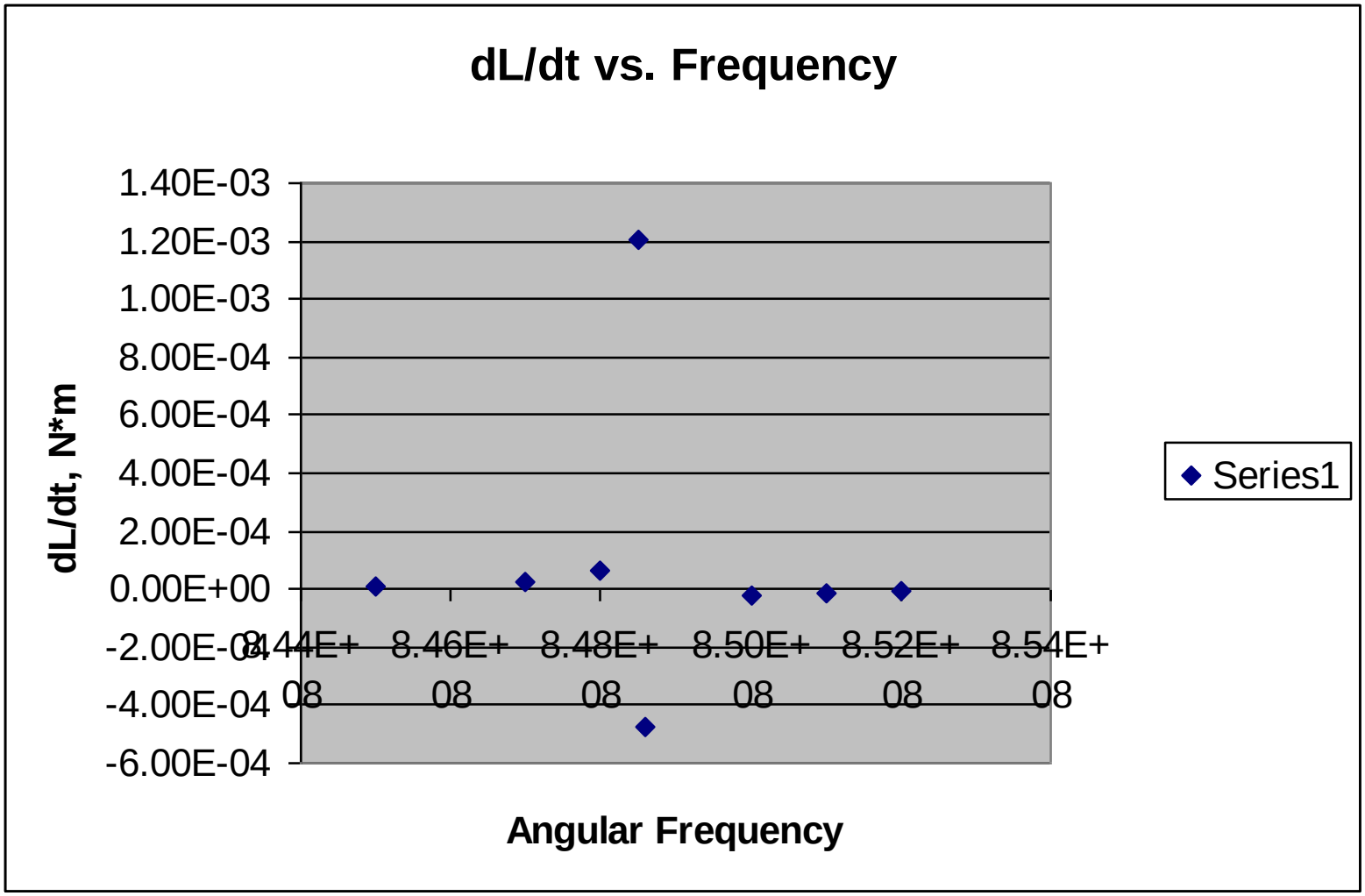
E=400V/m,D=1m,V=1m^3



Variation of the FG Parameters

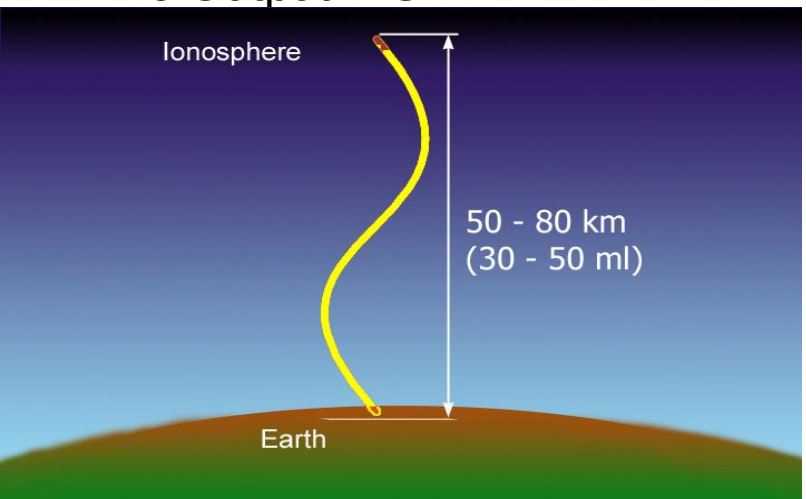
The Torque, dL/dt vs. Frequency

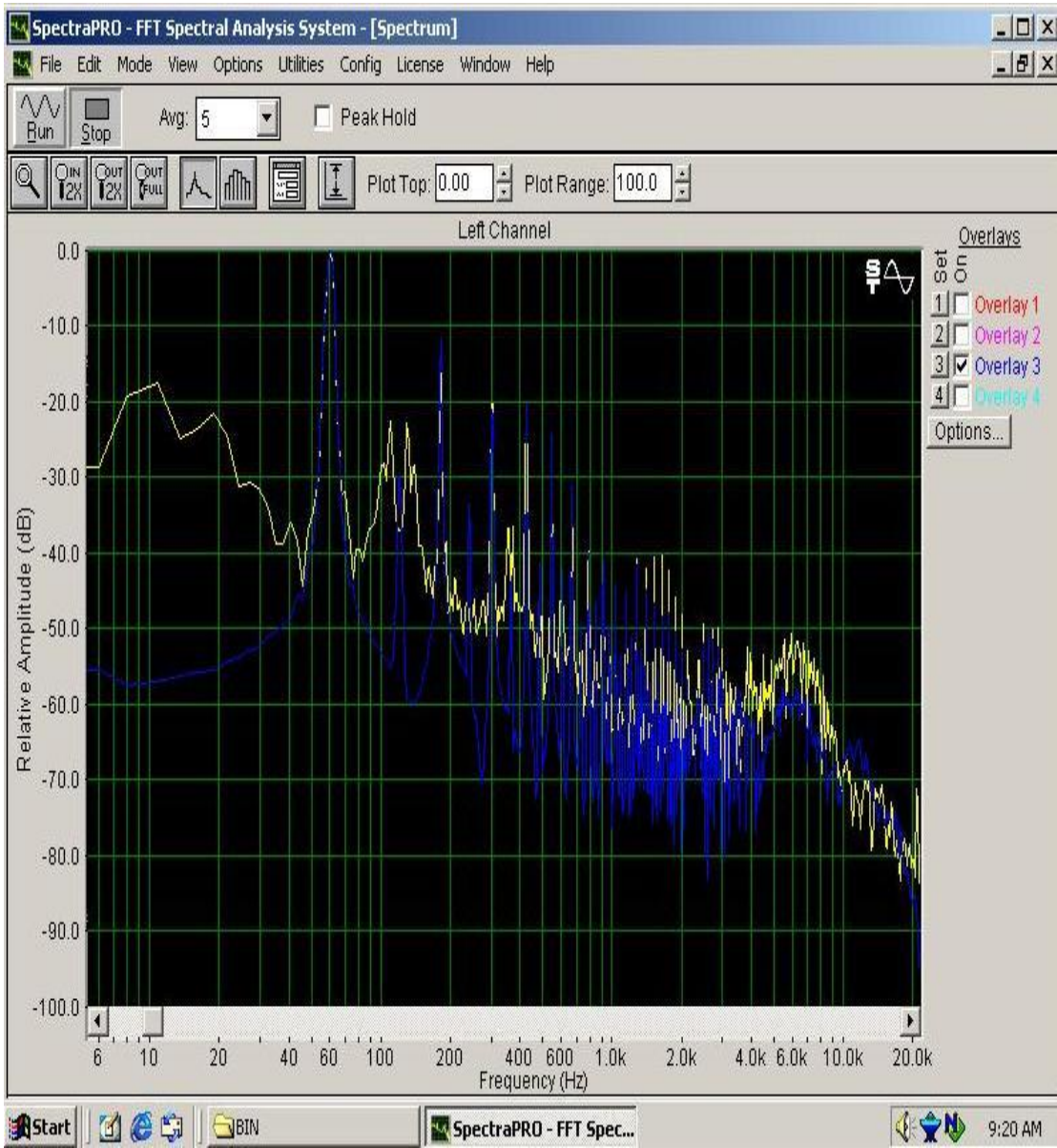
E=400V/m,D=1m,V=1m^3



The Drivers for FG:
Resonant Earth's EM fields, Lightings, Technical Sources

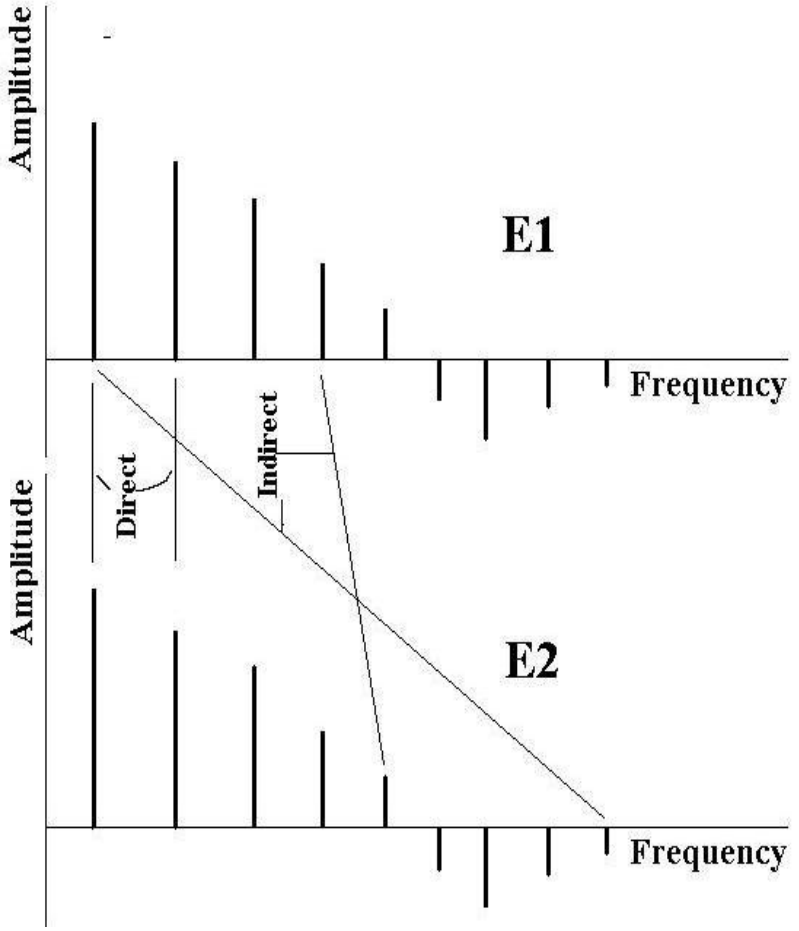
- The Solar Wind, the charged particles, then:
- Van Allen Belt, an angular acceleration in its magnetic field, EM waves, then:
- Earth-Ionosphere Cavity Resonator, then:
- Superposition of the EM waves, gained the phase shift.
- The Output: FG





Stationary and Non-Stationary Components of FG

- N.A. Kozyrev stressed that namely a non-stationary FG manifests the anomalous phenomena.
- Majority of FG are frequency-combined ones.



Stationary and Non-Stationary FG. Combination of frequencies.

- Number *m* of the parent vectors =2. That is, the number of the non-stationary FGs for the *n* frequencies is:

$$ {}^{2}C_{n} = \frac{n!}{2(n-2)!} \qquad (11) $$

- Stationary-to-quasi stationary ratio is:

$$ {}^{2}C_{n} / n = \frac{(n-1)!}{2(n-2)!} \qquad (12) $$

- Total angular momentum:

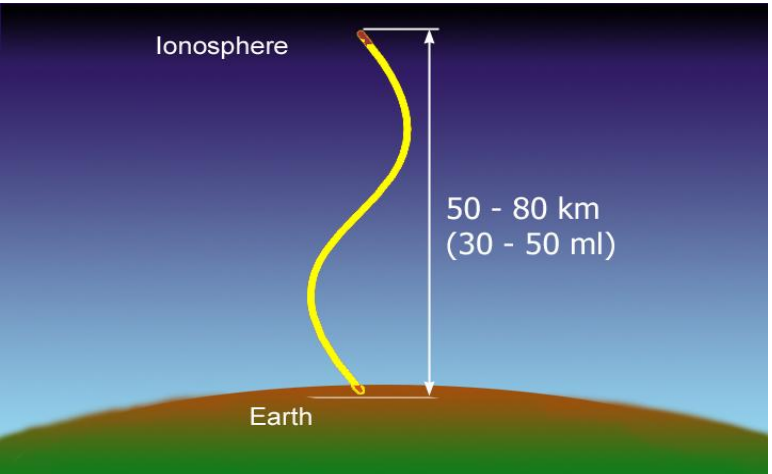
$$ \vec{L} = \sum_{n=2}^{{}^{2}C_{n}} \vec{L}_{ic} + \sum_{n=1}^{n} \vec{L}_{in} \qquad (13) $$

Spectra of FG

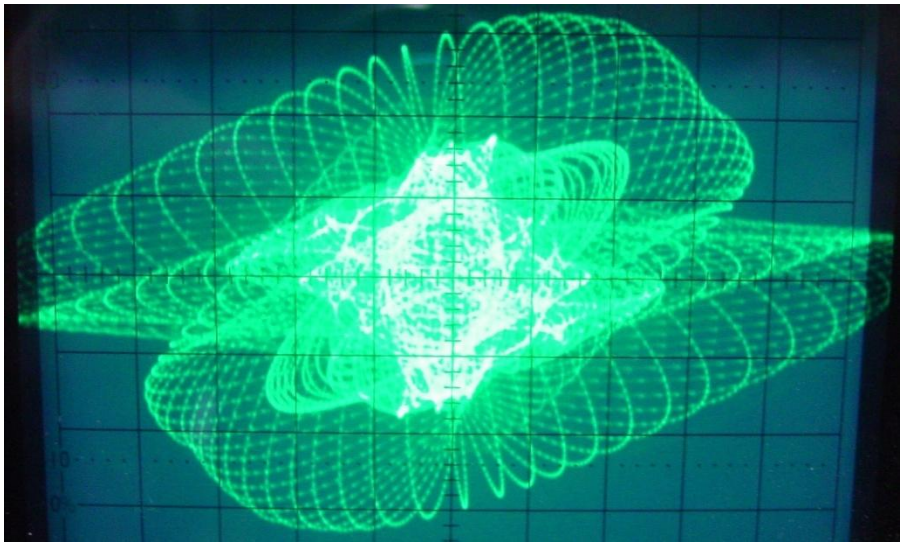
$$\vec{L}(t)=\sum_{n=1}^{n=\infty}\vec{L}_n=\vec{L}_0+\sum_{n=1}^{n=\infty}\vec{L}_n\sin\left(n\omega t+\varphi_n\right) \qquad (14)$$

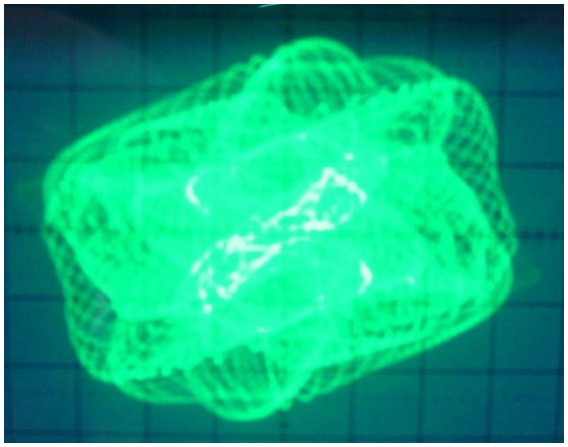
$$\vec{T}(t)=\sum_{n=1}^{n=\infty}\frac{d\vec{L}_n}{dt}=\vec{T}_0+\sum_{n=1}^{n=\infty}\vec{T}_n\sin\left(n\omega t+\varphi_n\right) \qquad (15)$$

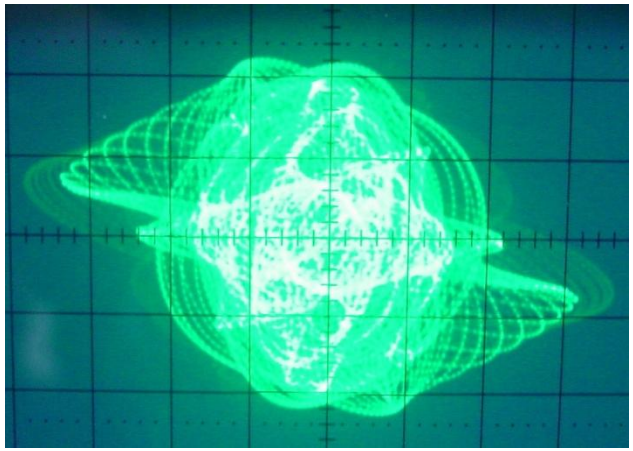
$$2d=N\lambda \qquad \omega=\frac{\pi Nc}{d} \qquad N\in\{1,2,3,\dots\} \qquad (16)$$

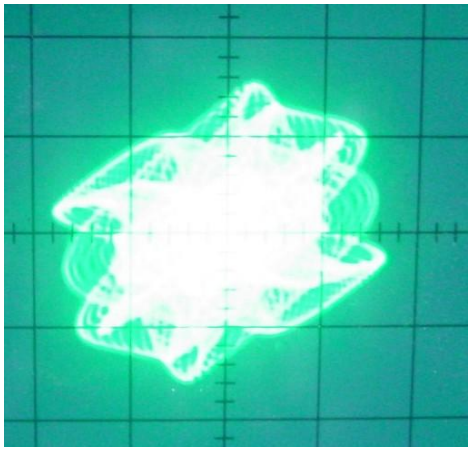


Quasi-Stationary and Non-Stationary FG









FG as a Quantum Object

- FGs are related to Torsion Fields, which are believe to be *bosons.* They have an integer spin.
- According to A Quantum Electro Dynamics, bosons are a base of the force.

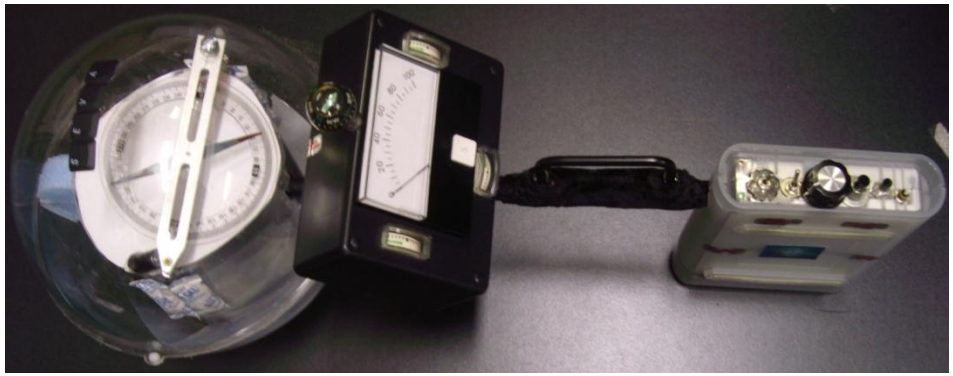
$$\vec{L}(t) = \frac{D^2 \vec{\omega}(t) \varepsilon\varepsilon_0 \int_V E_s{}^2(t) dV}{8c^2 - (D\omega)^2} = n\hbar \qquad (17)$$

$$W(t) = \frac{\varepsilon\varepsilon_0 \int_V E_s{}^2(t) dV}{2 - \left(\frac{D\omega}{2c}\right)^2} = nhv \qquad (18)$$

$$n = 0,1,2...$$

How Do We Measure FG?

- SEVA –Family. SEVA-Spinning Electric Vector Analyzer.
- *SEVA*-Altruistic Service to Others (Sanskrit language)



FG-Experiments

- http://www.youtube.com/watch?v=xvRQLLHzbcA
- In this experiment, remaining spinning of FG was fixed on the video. The spinning lasted more than 24 hours.
- Conservation of the Angular Momentum of FG.
- Sources of FG- Axion (Torsion) *Comfort* Generators by A. Shpilman.
- Detector of FG –Spinning Electric Vector Analyzer SEVA, by the author.

FG-Experiments

- Influence of FG on Background Gamma-radiation.
- Bosons-to-Bosons Interaction.
- 360 Measurements.

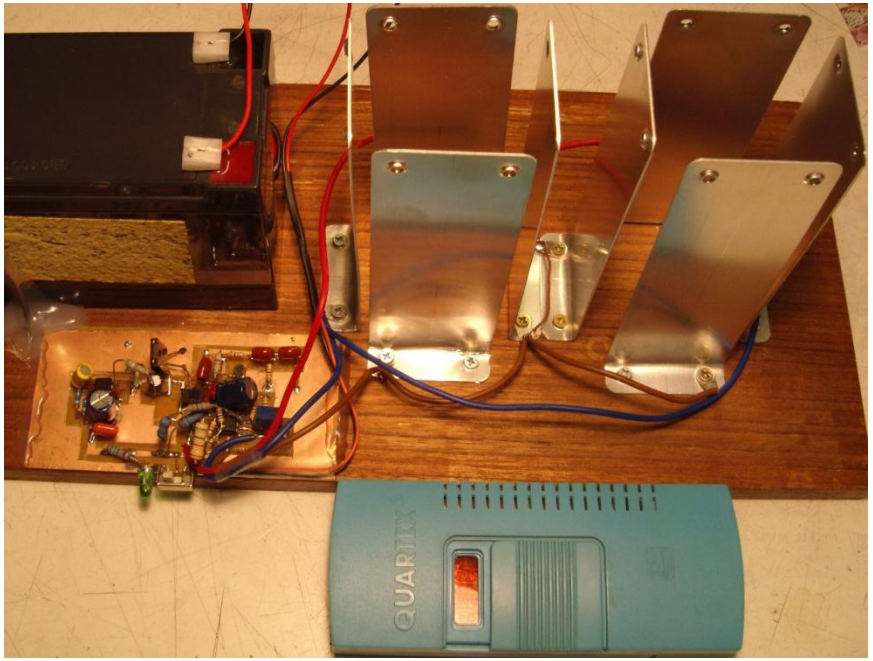


Table1. General results of the low-drive experiment

μR/h	Reference	Counterclockwise	Clockwise
Average	9.78	8.43	8.82
Standard deviation	3.16	3.09	2.42
Square root of the average	3.13	2.90	2.97

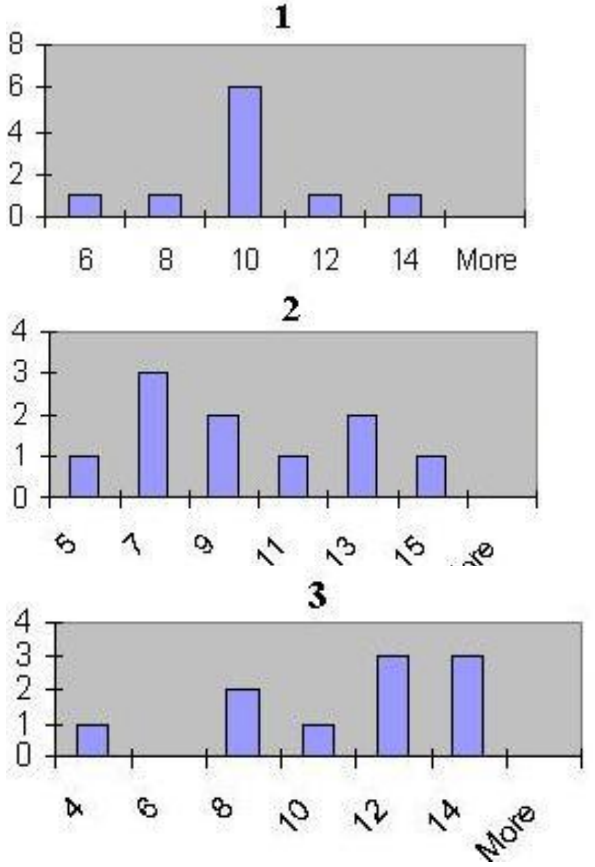
FG-Experiments.

Table 2. Expected and real occurrence of repeated similar readings in the 12 cycles of the low-drive experiment

Number of equal readings in a row	Reference		Clockwise		Counterclockwise	
	Experiment	Expected	Experiment	Expected	Experiment	Expected
2	0.42	0.12	0.58	0.12	0.67	0.12
3	0	0.012	0.17	0.012	0	0.012
4	0	0.0012	0.08	0.0012	0	0.0012

FG-Experiments.
Remaining Spinning of FG Destroys Poisson Distribution for Background γ–Quanta.

- Reference count after 1st exposure:
- After 2nd exposure:
- After 3rd exposure:
- Total background energy increases due to FG-quanta:

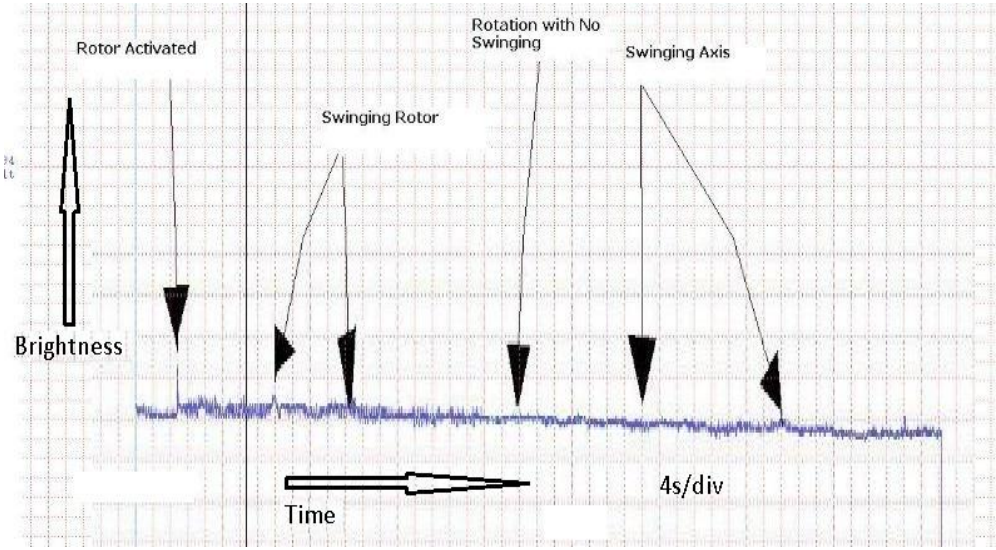


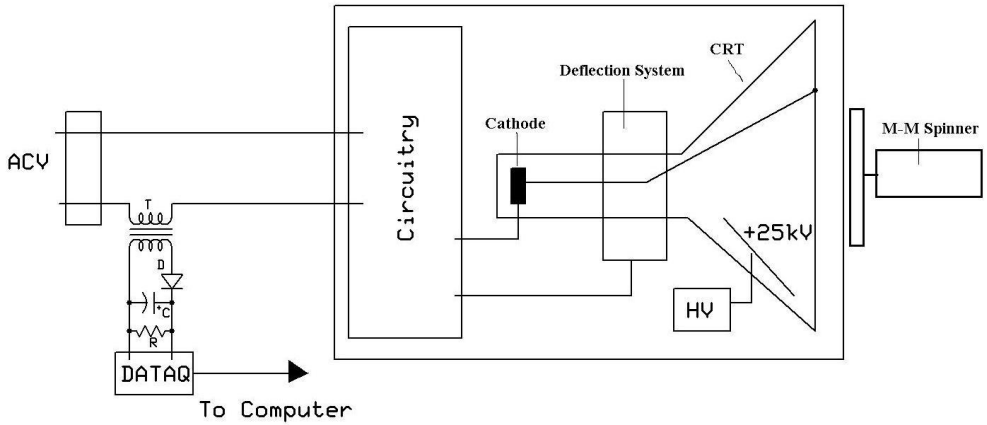
$$W(t) = \frac{\varepsilon\varepsilon_0 \int_V E_s^{\,2}(t)\,dV}{2 - \left(\frac{D\omega}{2c}\right)^2} = nh\nu$$

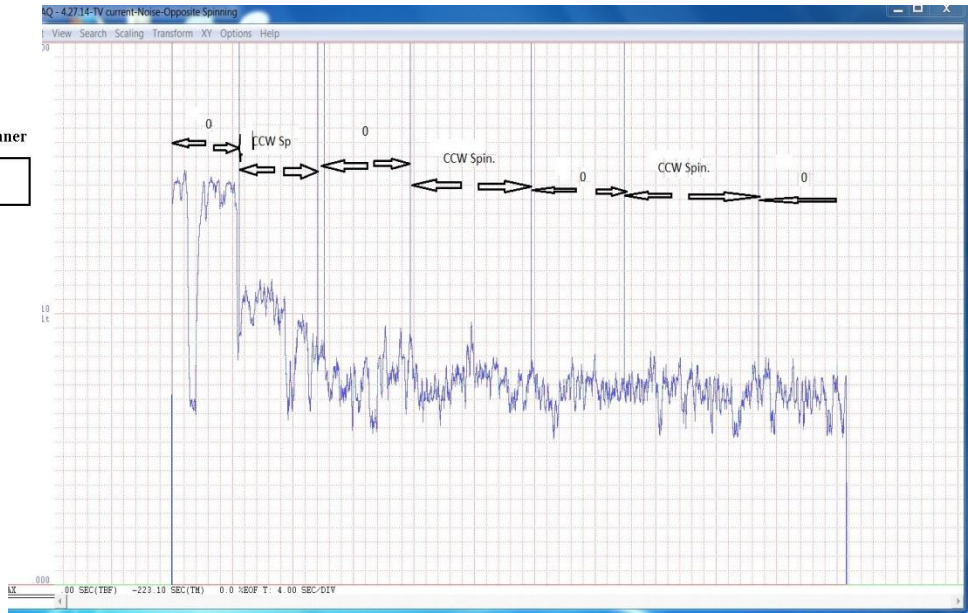
Magneto-Mechanical FG Controls the Electron Flow in CRT

- Preliminary:

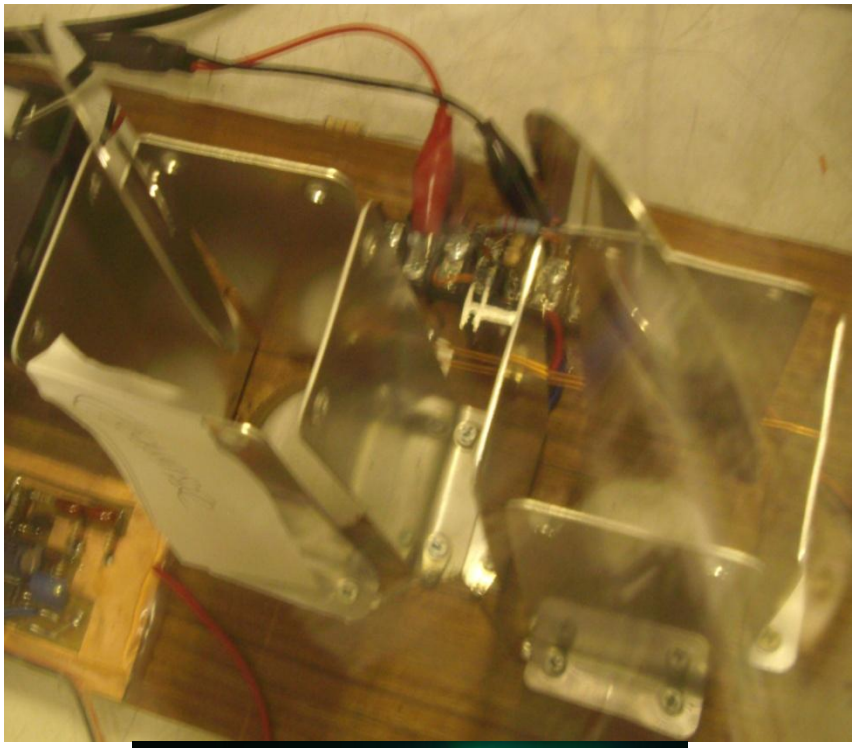
$$\Delta I = k\vec{n} \cdot \frac{d\vec{L}}{dt}$$



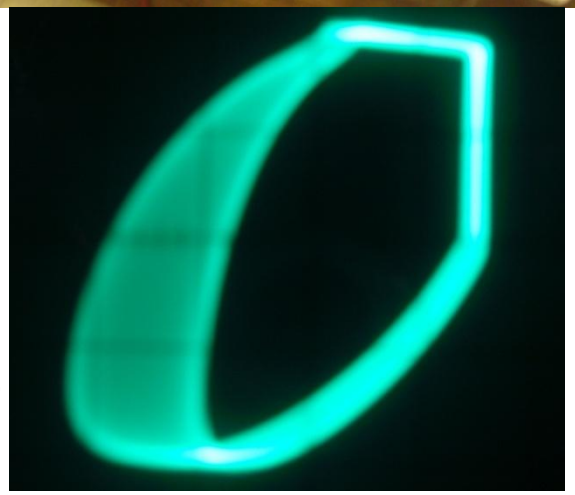




Mechanical Action of FG



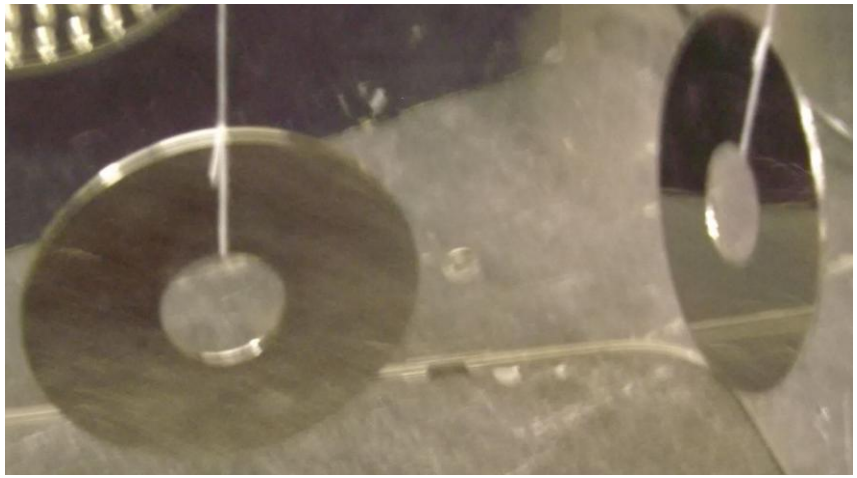
- Suspended 14 gr. discs experience a turn for 10-15 dgs in 3 MHz, 400V/m spinning field. After the exposure, the discs arrange in a parallel way.
- The Driver: ⟶



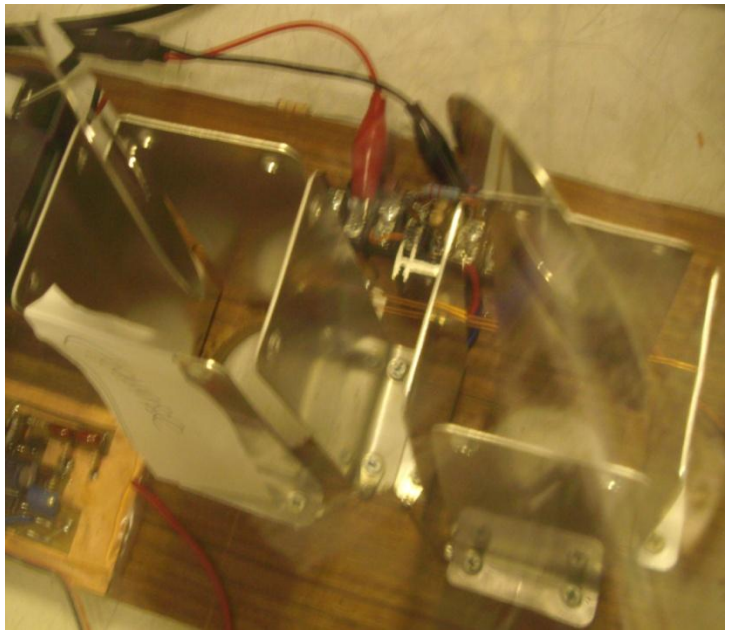
$$\frac{d\vec{L}}{dt} = \varepsilon\varepsilon_0 \left(\vec{\omega} \frac{d}{dt} \int_V \vec{E}_s{}^2(t) dV + \frac{d\vec{\omega}}{dt} \int_V \vec{E}_s{}^2(t) dV \right) = \vec{R} \times \vec{F}(t) = -k\theta$$

FG-Experiments.
FG Inertia = the Phantoms

- Being removed from FG cells, the discs arrange chaotically.

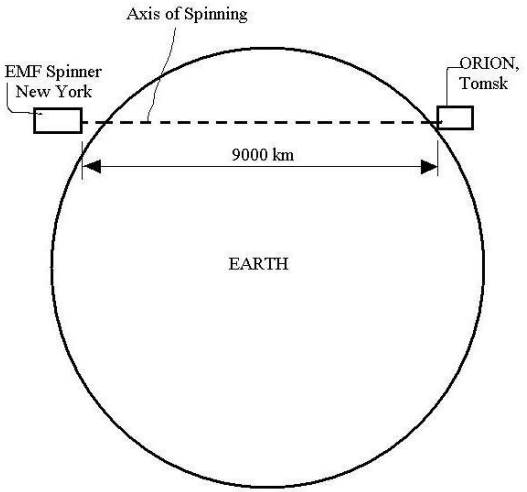


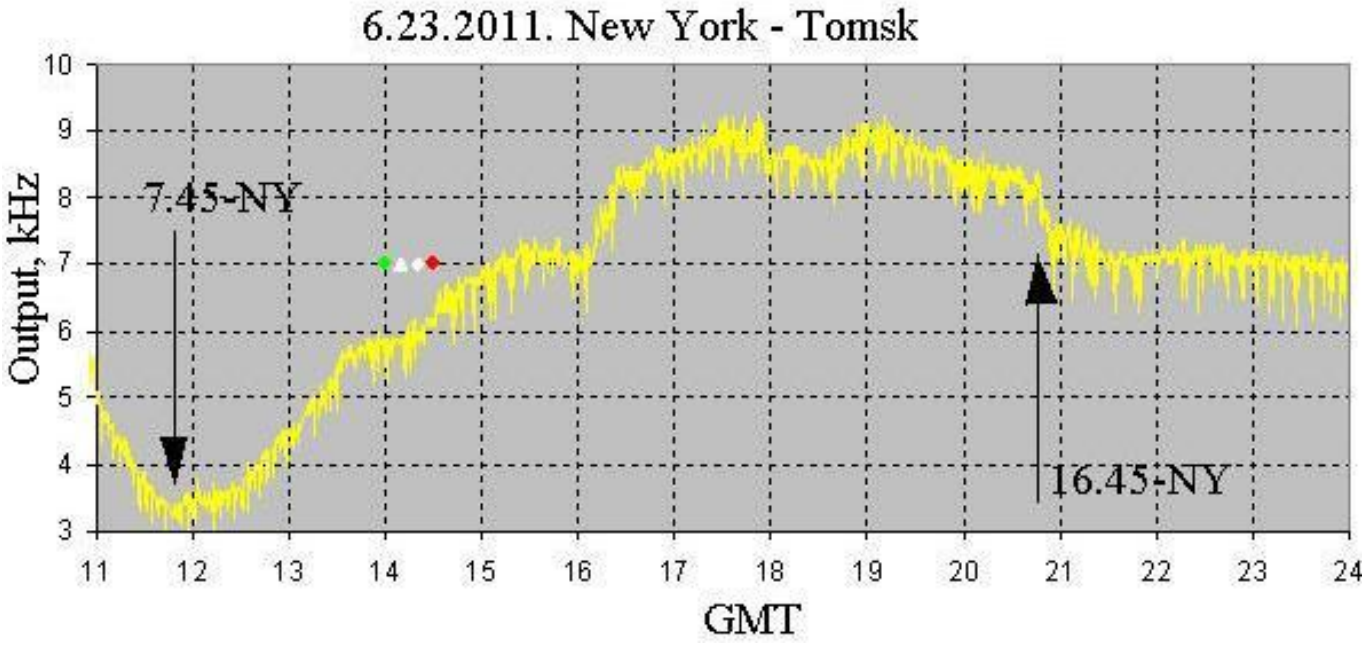
- Placing them back into the un-powered cells restores the parallel alignment
- FG remains in the un-powered cells.



FG-Experiments.
FG Inertia = the Phantoms

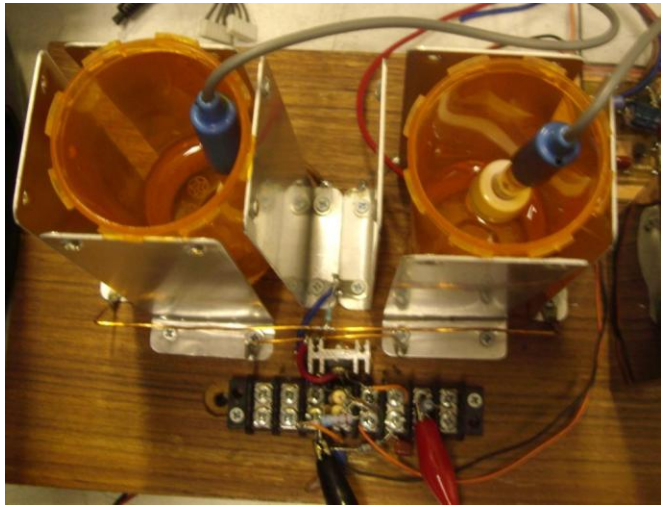
- During the TF-communication session, the unpowered TF-transmitter in NY sent the information to TF-receiver in Tomsk (Russia, Siberia) about presence/absence of the experimenter in NY.
- Manifestation of FG inertia.

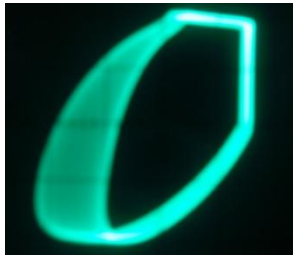




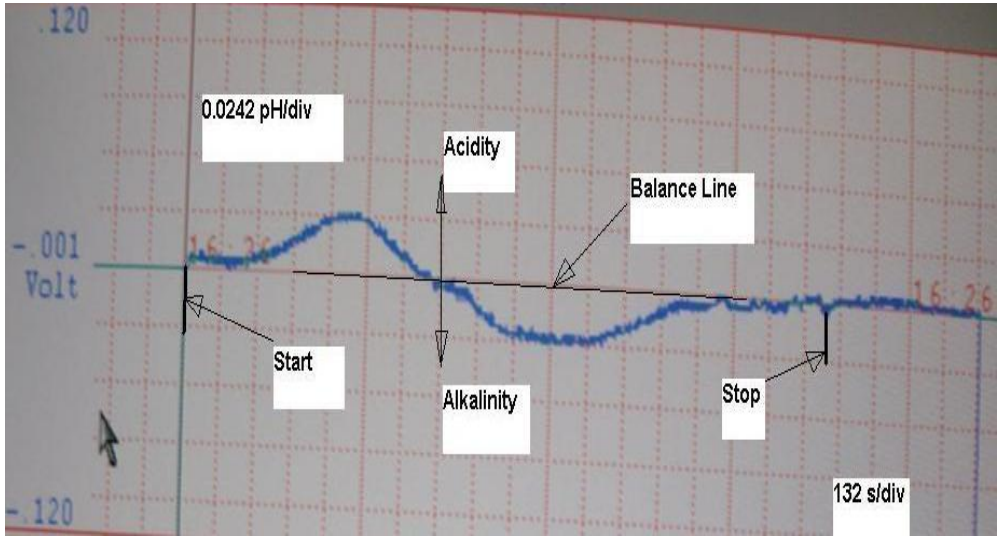
FG-Experiments.
FG as a Matter Controller

- Differential pH meter, designed by the author. The pH-electrodes in CW and CCW cells (water) of the FG. 3MHz, 400V/m.



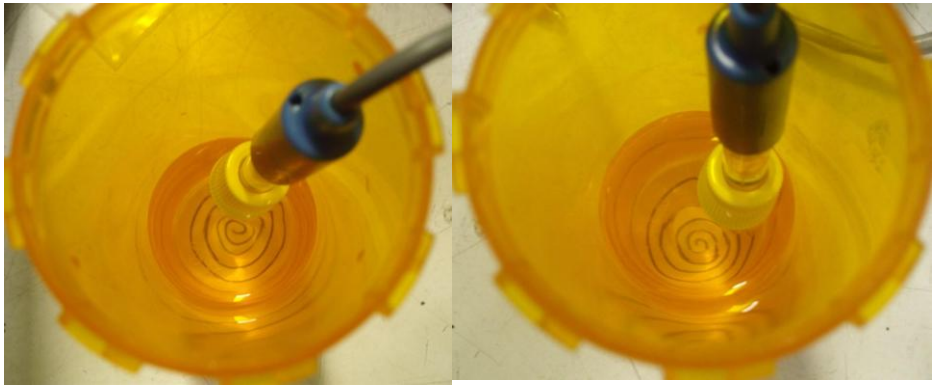


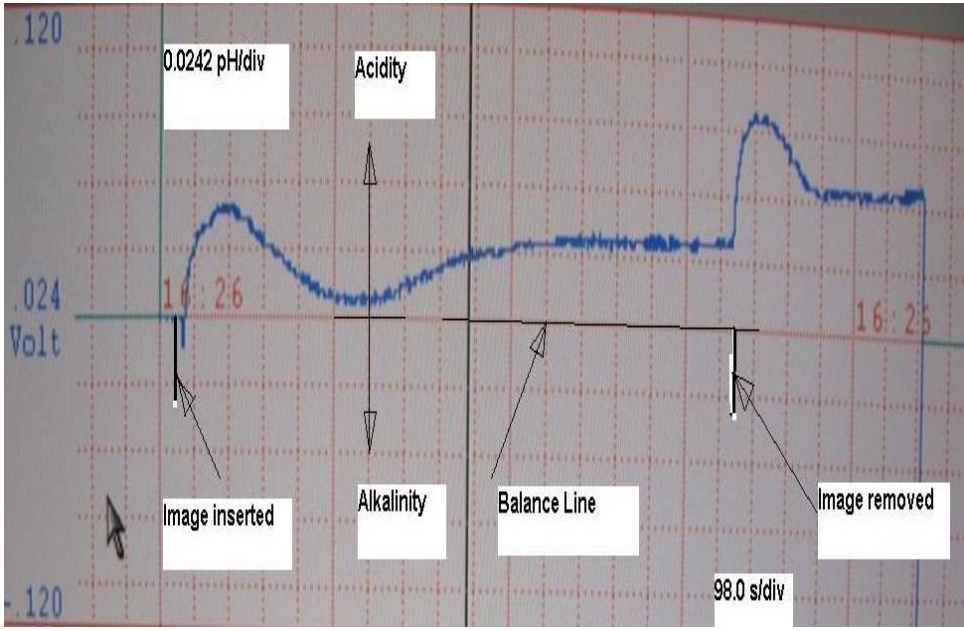
- The instrument displays a gained difference in structures of the water in the cups.
- Differential pH-diagram. ⟶



FG-Experiments.
Similarity Between FG and Graphic Information.

- Two drawn spirals of opposite twisting are placed under the cups with differential pH-electrodes.
- The water in the cups gains different properties.
- Differential pH-diagram. ⟶

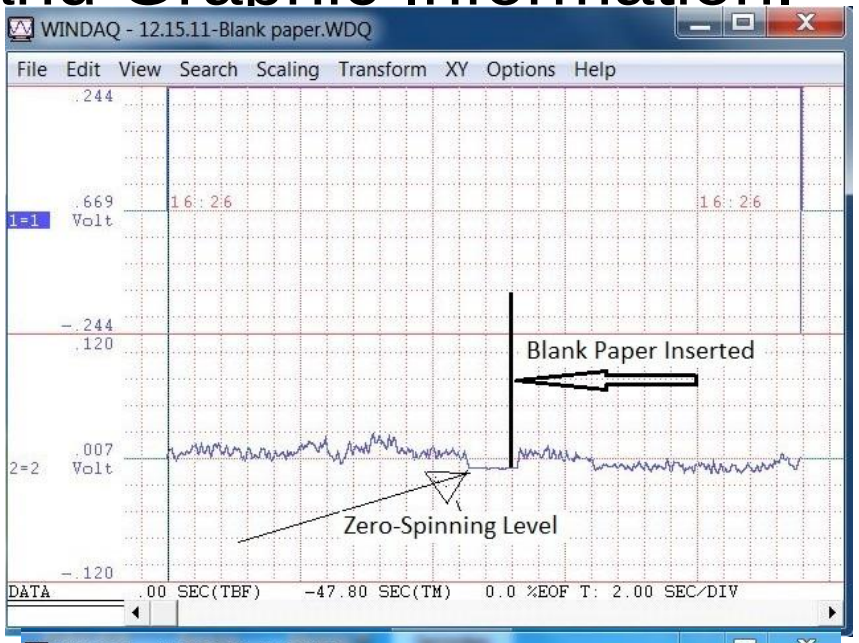


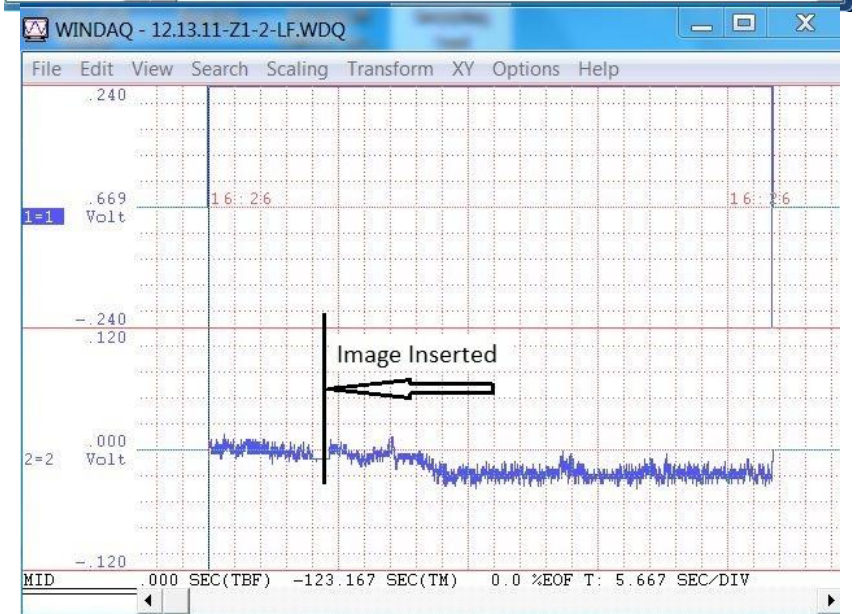


FG-Experiments.
Similarity Between FG and Graphic Information.

- The blank paper was inserted under the sensor of SEVA.

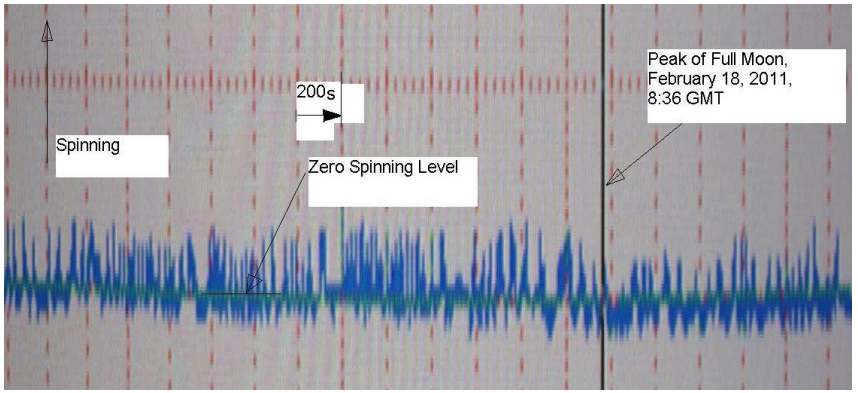
- The paper, having the image of TF generator was inserted under the sensor.



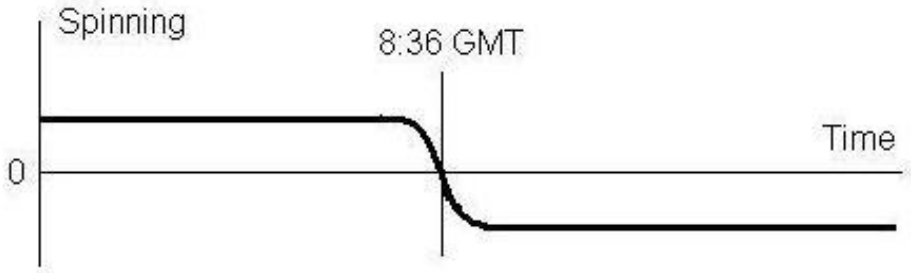


FG-Experiments. Astronomical-Events-Driven-FG.

- Full Moon passage.
- Original, not processed, signal of the quadrupole sensor of SEVA.

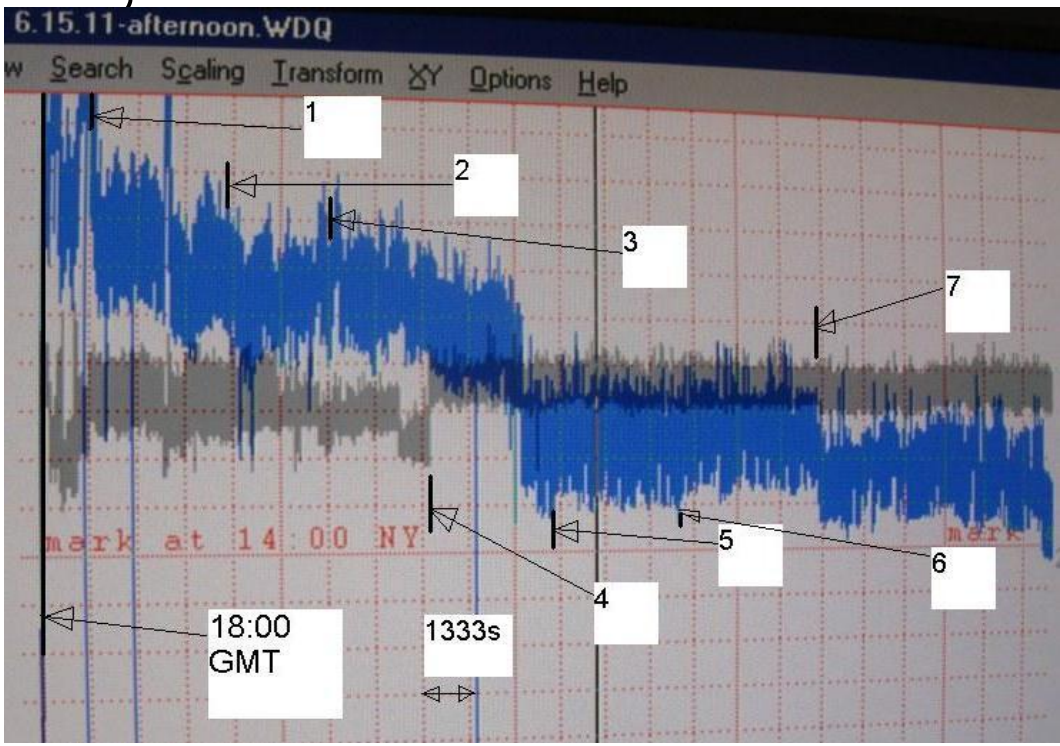


- The processed signal of the sensor.



FG-Experiments. Astronomical-Events-Driven-FG: Lunar Eclipse of June 15, 2011.

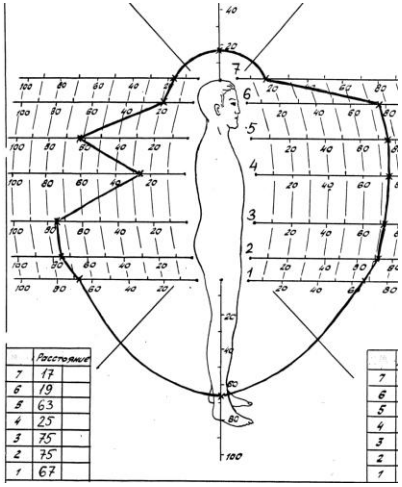
- Penumbral Eclipse Begins: 17:24:34 UT
- (1) Partial Eclipse Begins: 18:22:56 UT
- (2) Total Eclipse Begins: 19:22:30 UT
- (3) Greatest Eclipse: 20:12:37 UT
- (4) Total Eclipse Ends: 21:02:42 UT
- (5) Partial Eclipse Ends: 22:02:15 UT
- (6) Penumbral Eclipse Ends: 23:00:45 UT

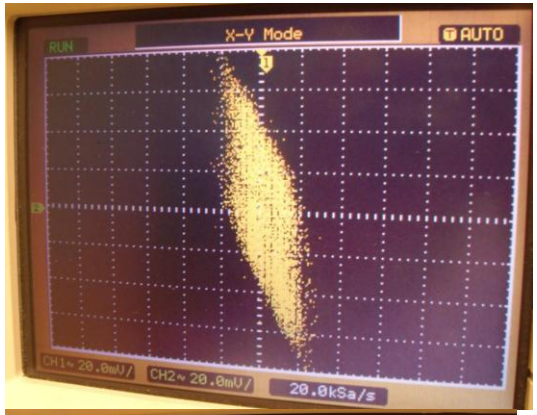


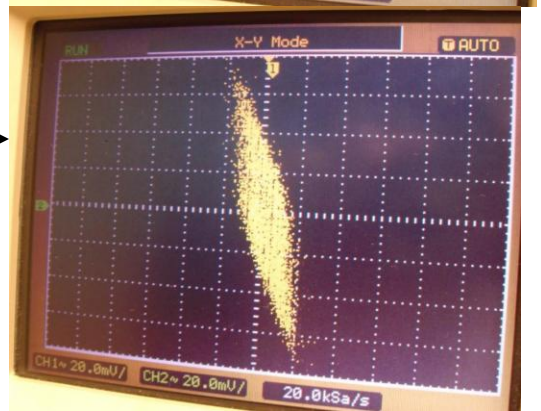
SEVA →

FG-Experiments.
A Human as a FG-Driver.

- Measuring phase borders of a human body(IGA-1, Y. Kravchenko);
- FG next to a head. SEVA-instrument.
- After 2 min. of wearing the info-imprinted pendant.



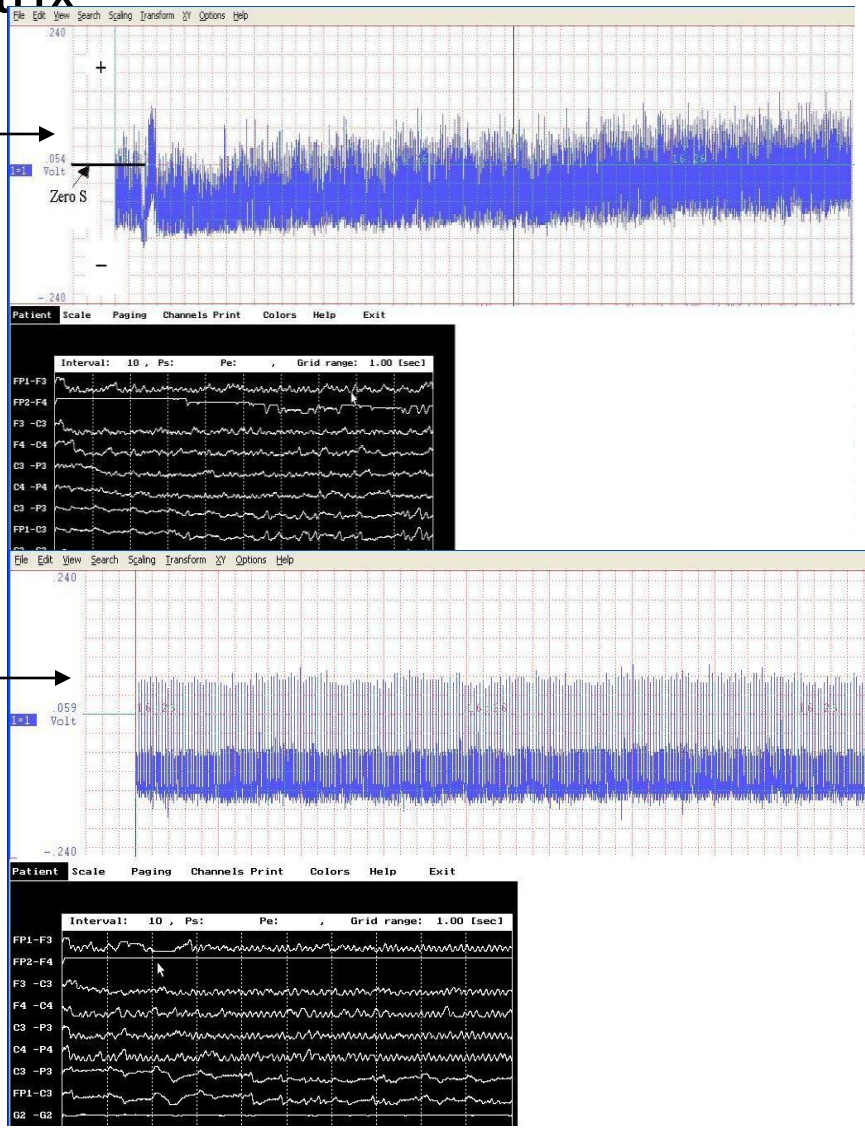




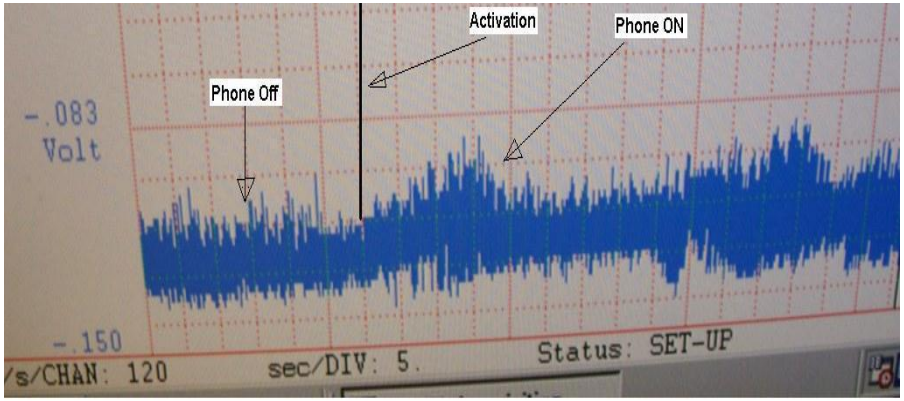
FG-Experiments.
A Human as a FG-Driver. Influence of an Info-Imprinted Matrix

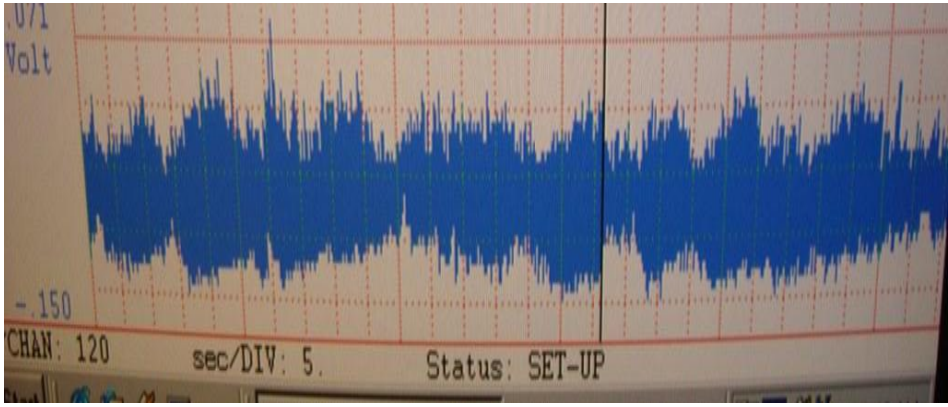
- 1st Experimenter, FG, EEG,

2nd Experimenter, FG, EEG.



FG-Experiments.
A Human as a FG-Driver.

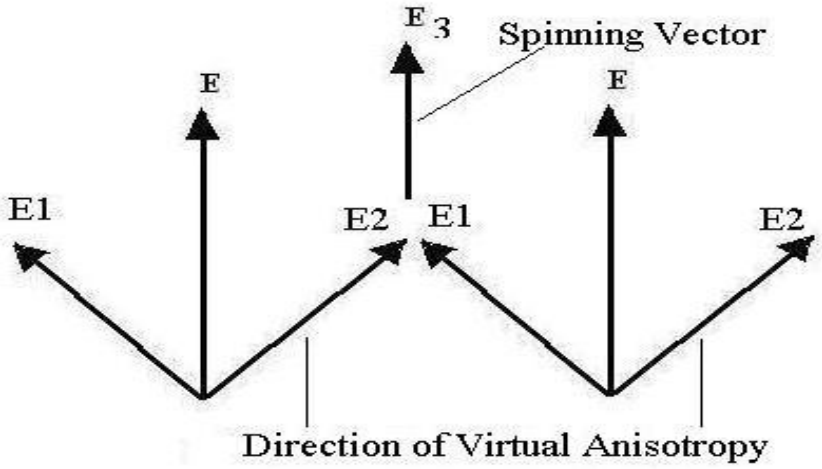


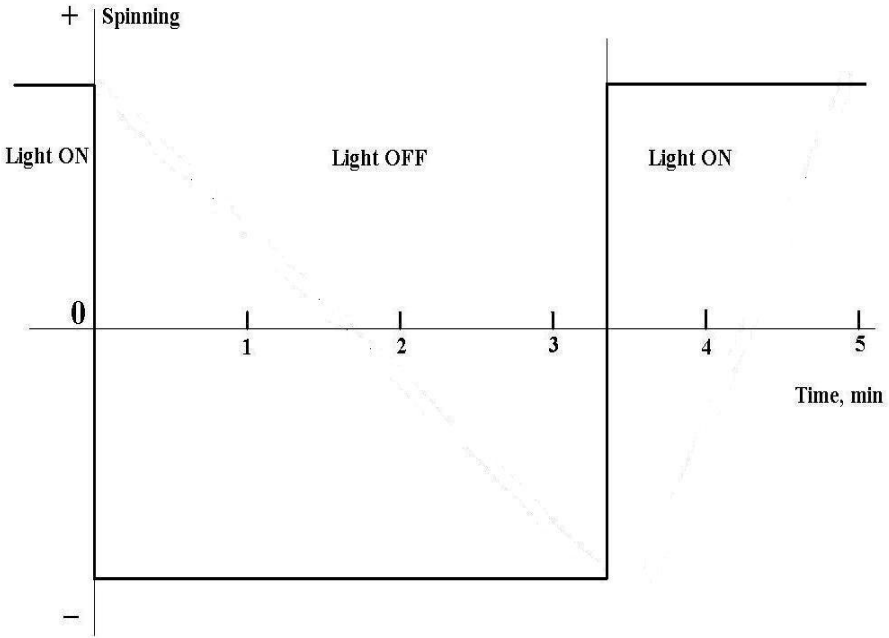


- A Mobile phone radiation stimulates FG oscillations produced by a human head.
- Right Fig. – the aftermath, the phone is OFF.

Light-Induced FG.
Yin and Yang of the *Feng Shui* as Physics

- Huygens- Fresnel Principle as a Base for FG.
- SEVA-Integral-M detects the light – induced spinning.
- Light vs. Darkness= opposite spinning FG.

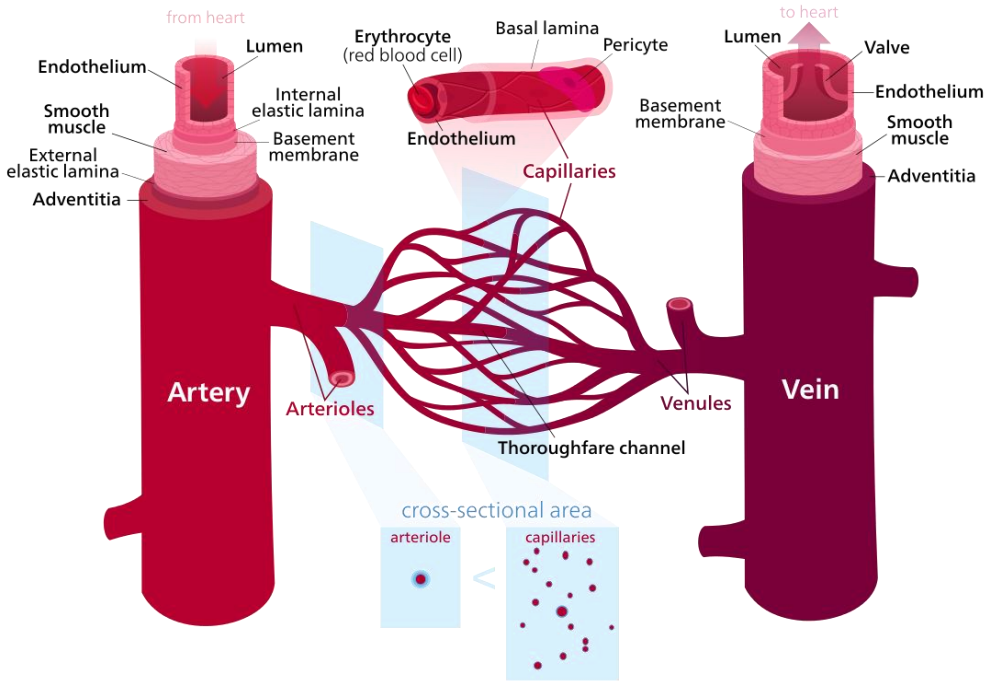


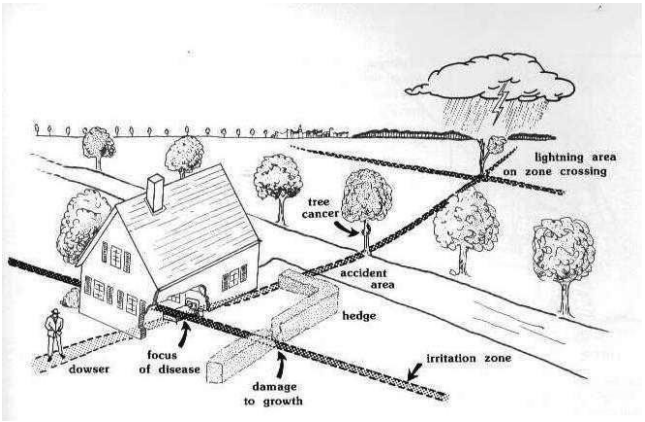


SEVA-Integral-M.
FG-Analyzer

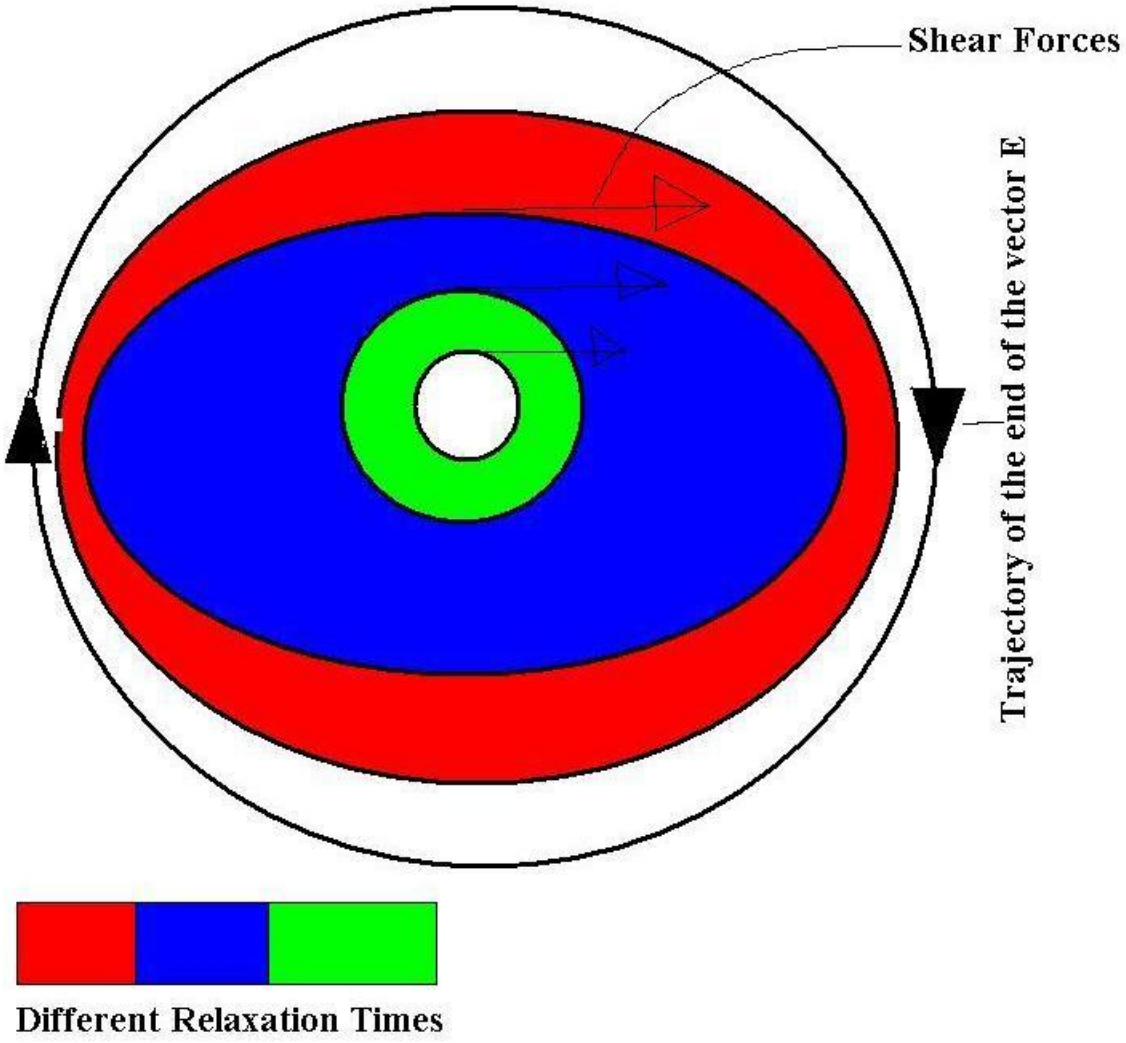
FG Impact on Leaving Beings

- Our blood vessels are multilayer systems.
- These systems will be experiencing some shear forces between the layers in a wide spectrum FG, caused by a discrepancy of the relaxation times of the layers.
- This can potentially damage the vessel.



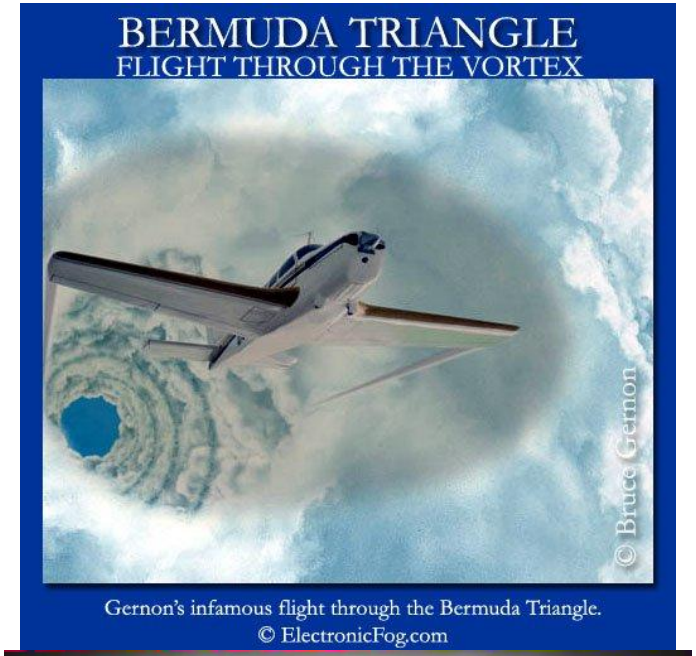


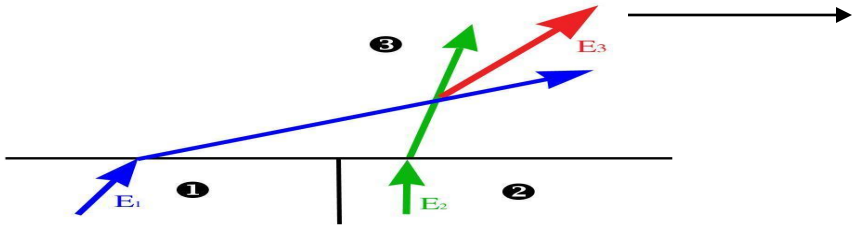
Shearing Forces in FG-Exposed Multilayer System



FG and Anomalous Phenomena

- 1970. Leap through the Space-Time. Rotating a torus-like cloud. Pilot Bruce Gernon, Jr. The 75 minutes flight took only 45. Consumption of the fuel was 12 gallons less.
- Russia. City of Kaluga. After next occurrence of the Crimson Fog, some people vanish. Counted 400 cases a year. <u>Kaluga is located over the Geo-fault.</u>



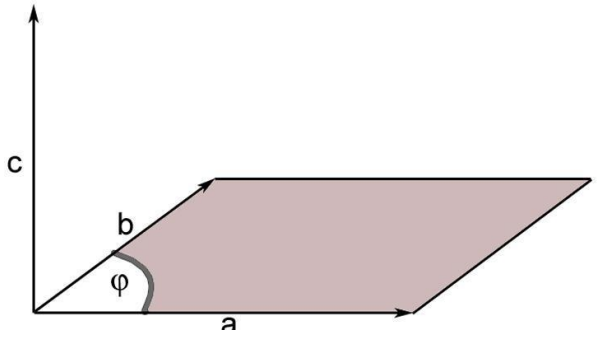


Influence of FG on Space-Time Metrics

- The Spinning S is a vector value acting normally to a plane of the parent vectors.
- It can affect Space-Time curvature.
- This has a lot of consequences for the society.

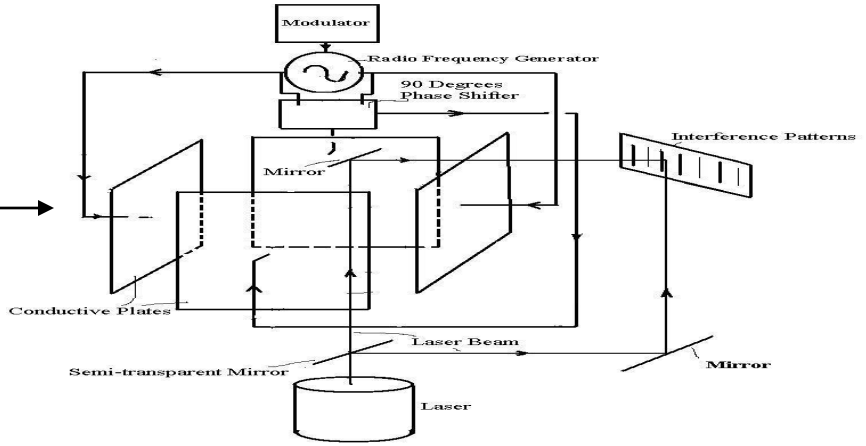
$$\vec{S}_i = \omega_i \Delta\varphi \left[\vec{E}_1 \times \vec{E}_2\right]$$

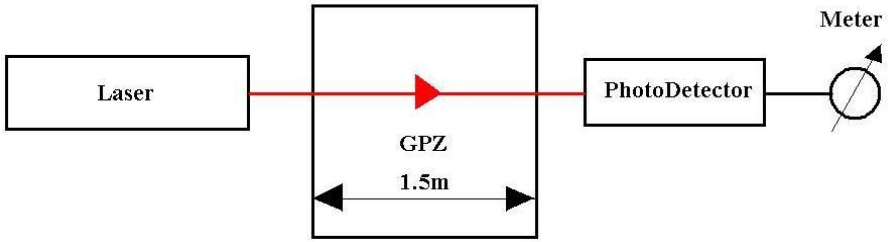
$$\vec{S} = \sum_{i=1}^{n} \vec{S}_i$$



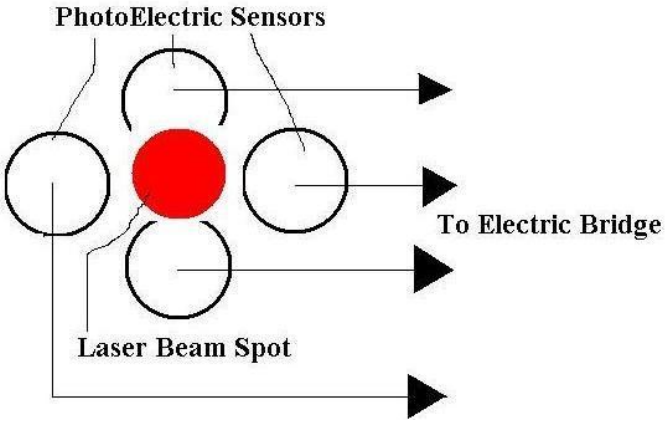
Influence of FG on Space-Time Metrics

- The author's planned experiment, 2005.
- Experiments of Indian scientists, 2010. Passage of the laser beam through GPZ.
- They reported a reduction of the intensity of the beam. Deflection or the attenuation?





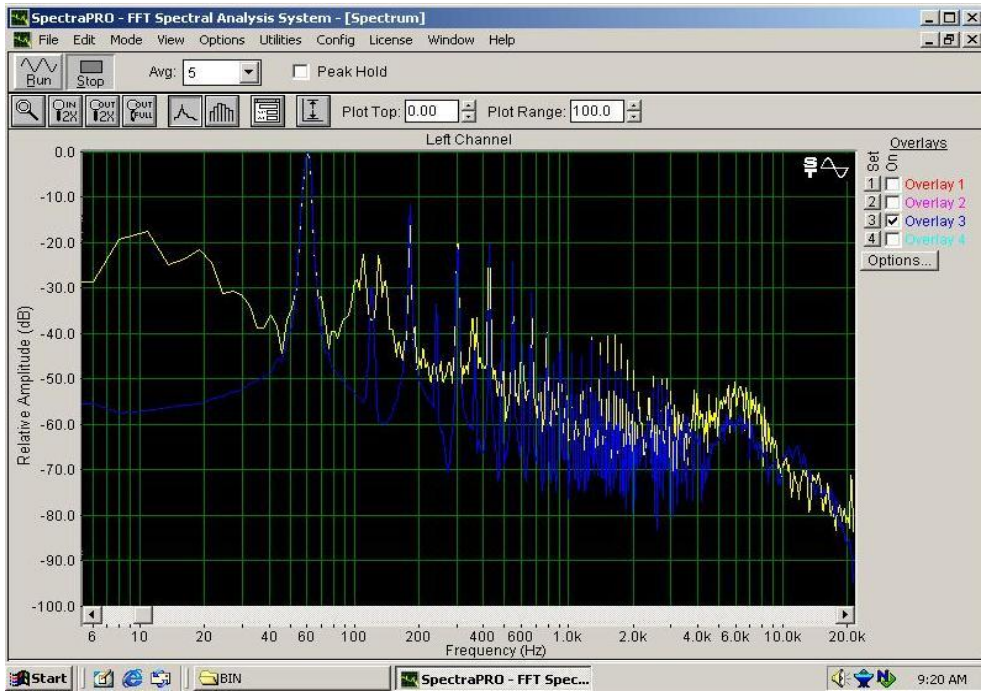
- Dr. Atsykovsky's, Russia, GPZ experiment. Deflection of the beam. Claiming the Ether Wind.



Tornados and Hurricanes - Atmospheric FG?

- The clouds. D=1.0e+4 meter.
- *fr*=8.5e+3 Hz.
- H=1.0e+3 m,
- V=7.85e+10 m^3
- E=1.0e+6 V/m
- Single frequency torque T=0.7 N*m.
- In reality:

$$\omega_r \approx \frac{2.83c}{D}$$



$$\vec{T}(t) = \sum_{n=1}^{n=\infty} \frac{d\vec{L}_n}{dt} = \vec{T}_0 + \sum_{n=1}^{n=\infty} \vec{T}_n \sin\left(n\omega t + \varphi_n\right)$$

Conclusion

- FG is a physical reality.
- It can seriously impact the Mankind.
- This phenomenon deserves a close attention and studying.
- This is a time to ring the bell.