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Predicting Crowds' Behavior with Nonlinear Physics

By Prof. Maria Kuman, PhD
Holistic Research Institute

Abstract- Mathematical models considering a dense crowd as a soft solid predicted counterclockwise collective movement during rock concerts. This article explains that if mathematical modeling of dense crowds as soft solids works for predicting the collective behavior of crowds at rock concerts, it is because everything material (from the smallest elementary particle to humans and even stars) is a material body and torus-shaped nonlinear electromagnetic field (NEMF). We can come to the same conclusion for the crowd behavior at rock concerts, knowing that at positive emotions our NEMFs spin clockwise, according to Russian measurements. Nonlinear physics teaches that vortices spin clockwise and suck energy. When the energy sucked by the NEMFs of the crowd reaches the critically high value, it triggers collective movement of the crowd counterclockwise to release some of the extra energy. Nonlinear physics teaches that anti-vortices spin counterclockwise and emit energy upward, which means that some of the extra excitation energy will be released in the atmosphere.

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Predicting Crowds' Behavior with Nonlinear Physics

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Abstract- Mathematical models considering a dense crowd as a soft solid predicted counterclockwise collective movement during rock concerts. This article explains that if mathematical modeling of dense crowds as soft solids works for predicting the collective behavior of crowds at rock concerts, it is because everything material (from the smallest elementary particle to humans and even stars) is a material body and torus-shaped nonlinear electromagnetic field (NEMF). We can come to the same conclusion for the crowd behavior at rock concerts, knowing that at positive emotions our NEMFs spin clockwise, according to Russian measurements. Nonlinear physics teaches that vortices spin clockwise and suck energy. When the energy sucked by the NEMFs of the crowd reaches the critically high value, it triggers collective movement of the crowd counterclockwise to release some of the extra energy. Nonlinear physics teaches that anti-vortices spin counterclockwise and emit energy upward, which means that some of the extra excitation energy will be released in the atmosphere. Knowing that at negative emotions the NEMFs of all humans spin clockwise and lose energy, at disaster when the energy of a crowd reaches a critically low energy value, it will trigger collective movement of the crowd clockwise to replenish some of the lost energy because vortices spin clockwise and suck energy. Thus, we predicted that in the case of disaster a dense crowd could be expected to move collectively in clockwise direction, at which some of the extra negative energy of the crowd would be released downward to the earth.

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I. Introduction

Let us introduce some concepts of nonlinear physics, which we would need. The flux of running river-water would be linear, if the bottom of the river is smooth. However, if there is a big stone on the bottom of the river, the water needs to flow around the stone and the water flux becomes nonlinear. Behind the stone, turbulence would be observed manifested with a couple of: vortex spinning clockwise and anti-vortex spinning counterclockwise [1].

Following the law of the folded fingers of the right hand in physics, when the folded fingers show the direction of the currents (or direction of spinning of plasma), the vertical thumb show the direction of the induced magnetic field. Following this law, the vortices (which spin clockwise) would induce magnetic field toward the surface. This would make the vortices to suck energy in. Following the same law, the anti-vortices (which spin counterclockwise) would induce magnetic field off the surface, which would make the anti-vortices to emit energy [1].

II. Discovering the Dynamic of the Human NEMF based on our Measurements and Russian Measurements

The Russian scientist Shkatov patented equipment, called 'torsemeter', which allows him to measure the spinning of the human torus-shaped energy field (NEMF) [2]. With his 'torsemeter', Shkatov measured how positive emotions (joy, happiness…) increase the spinning of the human's EMF in positive (clockwise) direction and how negative emotions (anger, hatred, jealousy…) increase the spinning of the human EMF in negative (counterclockwise) direction [2].

Since in nonlinear physics turbulent spinning in clockwise direction is called vortex and vortices suck energy in, energy must be sucked into NEMF during positive emotions, which would explain the uplifting we feel when experiencing positive emotions. Since in nonlinear physics turbulent spinning in counterclockwise direction is called anti-vortex and anti-vortices release energy, energy must be released from the NEMF during negative emotions, which would explain the drop-in energy we feel when experiencing negative emotions.

Author: Holistic Research Institute, 1414 Barcelona Dr., Knoxville, TN 37923. e-mail: holisticare@mariakuman.com

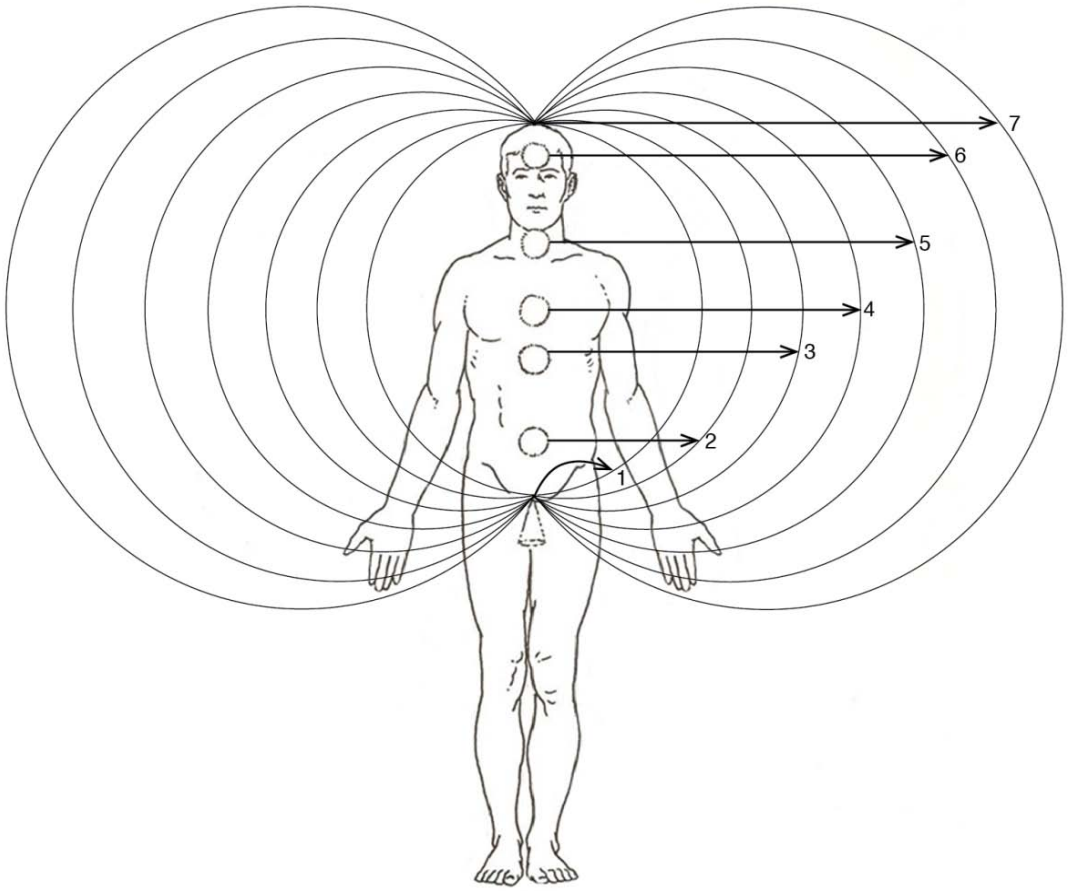

Fig. 1: Vertical cross section of the male torus shaped NEMF [3] and their corresponding discrete energy levels.

III. Our Measurements on Human's NEMF Dynamics

We measured the weak NEMF of people with our patented supersensitive energy meter (1,000 times more sensitive than the equipment measuring the body biocurrents).

1/ First, we asked people to think about the happiest moments of their life and we measured their energy. We found that positive thoughts increase the energy. We also found that positive thoughts improve the energy balance by filling with more energy the places with lowest energy (just like a river would fill with more water the lowest places). Since improved energy balance means improved health, positive thoughts make you healthier (see Fig. 2) [2].

2/ Second, we asked people to think about the saddest (unhappiest) moments of their life and we measured their energy. We found that negative thoughts decrease the energy and worsen the energy balance. What was dropping in energy maximum was the genetically inherited weak organ with lowest energy, which means that each negative thought takes you a step farther to a disease of your genetically inherited weak organ. In other words, each negative thought makes you sicker (Fig. 2) [2].

Energy measurements of Reiki healers and their patients were also done with our sensitive equipment. Reiki healing is energy healing done by laying hands over the bodies of the patients. 'Rei-Ki' means 'universal energy' and our measurements showed that indeed universal energy must be involved because after Reiki healing not only was the energy of the patient higher and more balanced, the energy of the healer was higher and more balanced. This is possible only if a third source of energy is involved [4].

We also noticed that after each Reiki healing the energy on top of the head of the Reiki Healers was getting higher. In acupuncture, this point is called 'Bai Huei', which means 'point of union', and looking at Fig. 1, one can see that it is indeed a point of union. The energy increase on top of the head indicates that this was the portal point through which the 'universal energy' was entering the bodies of the Reiki healers [4].

Obviously, the Reiki Healers suck electrical energy from the atmosphere (Universal Energy) through the top of their head, where the vortex opening of their donut shaped NEMF field is (Fig. 1). The upper hole of

the donut shaped NEMF on top of the head and the lower hole of the donut at the tailbone (Fig. 1) are at the two ends of the axis of spinning of the donut. Fig. 2 pictures the donut shaped NEMF of the human heart as measured by the Heart Math Institute in California [5].

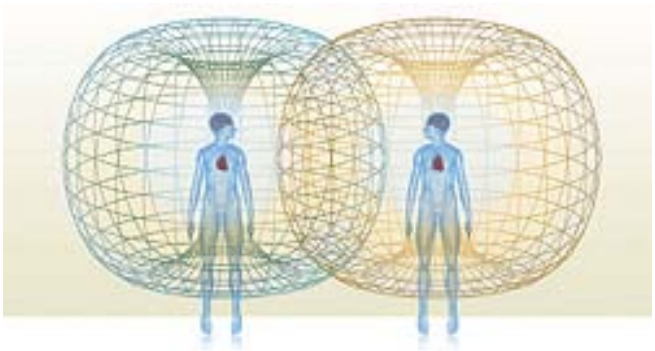

Fig. 2: The donut shaped NEMF of the human heart as measured by the Heart Math Institute in California [5] adopted from their webpage

When combining the measurements done on people with our patented supersensitive energy meter with the spinning measurements, which Dr. Shkatov did in Russia with his patented 'torsemeter', the following dynamics of the human NEMF becomes obvious:

1/ Positive thinking and positive emotions make the human NEMF spin faster in clockwise direction, at which the vortex point on top of the head (at the center of the donut shaped NEMF) sucks energy in. This energy increase explains the uplifting we feel at positive emotions or just positive thinking.

2/ Negative thinking and negative emotions make the human NEMF spin counterclockwise, at which the anti-vortex point on top of the head (at the center of the donut shaped NEMF) emits energy. This energy release explains our feeling of low energy at negative emotions or just negative thinking. I have seen Kirlian photos of angry people (in Russian books), on which one can see the energy emitted from the top of their head like lightening.

IV. The Stars' and Humans' NEMFs have the Same Shape and Dynamics

Amazingly, in astronomy stars exhibit similar dynamic of sucking or emitting energy through the hole of their donut shaped NEMF. In double stars, it was observed how the dimmer star was sucking energy through the hole of its donut shaped NEMF from the donut hole of the brighter star, which was losing energy. This continued until the energies of the both stars became equal [6], [7], [8].

Recently, Sarafina Nance of the University of Texas at Austin claimed in an article published in *Monthly Notices of the Royal Astronomical Society* that the rapid spinning of the famous star Betelgeuse was a result of swallowing another star [6]. Betelgeuse probably engulfed the other star through the hole of its donut shaped NEMF because similar behavior was astronomically observed in double stars [6], [7], [8].

V. Why do Dense Crowds Behave Like Soft Solids?

The author showed in [9] that everything material was created as a material body and torus-shaped NEMF. If so, not only are the stars and humans having the same donut-shape NEMF with the same dynamics, grains, atoms, and elementary particles have the same donut-shaped NEMF with the same dynamics. This explains why dense crowds of people could be modeled like soft solids. Scientists are modeling dense crowds as soft solids, but they cannot explain why it works. Here we offer an explanation why it works. Since people and particles have the same NEMFs, we can model the NEMF of dense crowds as dense soft solids.

VI. Predicting Collective Behavior

Can we predict the collective behavior of a dense crowd at a rock concert when the crowd is emotionally excited? The answer is Yes! Knowing that when we feel excited, or we experience positive emotions, our NEMF spins clockwise like a vortex and sucks energy in (which makes us feel uplifted), we can predict the collective crowd movement at a rock concert. When the crowd's energy of excitation reaches a critical value, the crowd's collective movement is going to be counterclockwise to release some of the extra energy in the atmosphere. If so, we should not be surprised that mathematical modeling of a dense crowd behavior at rock concerts as soft solids [10], which have the same torus-shaped NEMFs, show collective movement in counterclockwise direction, at which according to nonlinear physics the excess excitement energy will be emitted in the atmosphere.

The authors of this mathematical modeling of crowds as soft solids [10] said that: 1/ it is not ethical to trigger a crowd disaster for the sake of science to see in which direction the collective movement of the dense crowd is going to be and 2/ little observational data are available on crowd disasters. However, considering the fact that at negative emotions the human donut-shape NEMF spins counterclockwise (like an anti-vortex) and loses energy (which makes us feel droopy), when the energy of the crowd reaches a critically low value, we can expect the collective movement of the crowd in the case of disaster to be in clockwise direction to replenish some of the critically low energy of the crowd.

According to nonlinear physics, the rule of the folded fingers of the right hand states that when the folded fingers are in the direction of spinning, the vertical thumb shows the direction of the induced magnetic field, which determines the direction of the energy flow. In the case of disaster, the collective movement of the

dense crowd clockwise, is expected to release the extra negative energy toward the earth. Indeed, independent Russian studies [11] showed that the Earth NEMF carries the imprints of all negativity on Earth.

VII. Conclusion

In conclusion we could say that if modeling dense crowds as soft solids works, it is because all material world was crated as a matter and NEMF [9], and the matter and humans have the same donut-shape NEMF. For that reason, soft solids and dense crowds behave in a similar way, which allows dense crowds to be modeled as soft solids.

However, knowing that the human NEMF spins clockwise at positive emotions (according to Russian measurements), and sucks energy, we could predict that at positive emotions, like rock concert, when the energy of excitation surpasses a critical value, a dense crowd would move in counterclockwise direction to release some of the extra energy in the atmosphere. Knowing that the human NEMF spins counterclockwise at negative emotions and loses energy, we can expect at disaster (when the crowd reaches the critically low energy) collective movement of the crowd to be initiated in clockwise direction, at which some of the extra negative energy would be released to the earth.

Independent Russian investigations measured the imprint of negative emotion on the Earth's magnetic field [11]. If the Earth NEMF carries the imprints of all negativity on Earth, when intelligent extraterrestrials approach the earth, by reading the imprint of negative energy on the Earth's NEMF, they will know that on this planet negativity dominates and they will choose not to land on Earth because it is not safe.

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