

# Application of Modified Planck's Equation and Modified Theory of Special Relativity in Measuring the Mass of a Thought

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**ABSTRACT:** For a thought to transmit, it must possess mass and a medium to travel. In this paper, we propose that the mass of thought can be calculated using Modified Planck's Equation and Modified Theory of Special Relativity. We have also coined and defined two novel terms, Encephalo-transmission Energy ( $E_E$ ) and Encephalomatation. This energy is the cleanest energy with zero carbon emissions. The conversion of Encephalo-transmission energy to electrical or kinetic or sound energy, can be of great use in various forms. This energy has a lot of applications in the field of medicine, criminology, technology, Encephalomatation etc which have been discussed in detail in this paper.

**KEYWORDS:** Encephalo-transmission Energy ( $E_E$ ), Encephalo-transmitter, Encephalomatation, Telepathy, Teleportation, Artificial Immortality.

## I. INTRODUCTION

Do thoughts have mass? If not, then why and how could they occupy our brain and our mind? This question lead both of us to finding an answer to this question.

According to Michal De-Medonsa, Technical Associate and Manager at Jazawari Labs, thoughts are either physical or metaphysical. She states that if the definition is metaphysical, then it is clear that the thoughts don't have mass. But if the definition is physical it becomes tricky to answer the question. She further states that physical definition falls into two subcategories- physical process and physical parts. Physical process definition is thought to be more precise and versatile. But this does not clearly answer our question if thoughts have mass or not? [1]

The closest answer is where a broadcast engineer, Tamara Ivy Iverson, suggested of using EEG as one method to find the energy emitted by thoughts. [2]

The method suggested by Elizabeth Dougherty of MIT School of Engineering, of watching the activity one neuron at a time or by looking at how millions of neurones talk to each other. This method has its own limitations as we cannot check the activity of each neuron as the present MRI is unable to detect desired signals due to the Blood Brain Barrier. [3]

So we came up with this method of calculating the mass of a thought. We modified the Planck's Equation and used alpha ( $\alpha$ ), beta ( $\beta$ ), gamma ( $\gamma$ ) and theta ( $\theta$ ) frequencies of EEG [8], [10] to get Encephalo-Transmission Energy  $E_E$ . This Encephalo-Transmission Energy ( $E_E$ ) is replaced in modified Theory of Special Relativity to find the mass of a thought

This method is easy to use and is less complicated. During the course of study we were able to discover this energy called Encephalo-Transmission Energy ( $E_E$ ). The various application of this Encephalo-Transmission Energy ( $E_E$ ) have been discussed in this paper in detail.

## II. EQUATIONS AND APPLICATIONS IN MEASURING MASS OF THOUGHT

### Planck's equation:

Planck's equation gives us the relation between the wavelength and energy. Here the equation has been modified and the energy taken is the Encephalo-Transmission Energy. The Encephalo-Transmission Energy at various frequencies of alpha, beta, gamma and theta can be found using modified Planck's Equation. Now their average is taken and this will give us the Average Encephalo-Transmission Energy. We have chosen this equation as the energy emitted in this case is in the form of chunks also known as quanta.

$$E_E = hv = hc/\lambda \quad [4]$$

Where  $h$  is Planck's constant,  $\nu$  is the frequency and  $\lambda$  is the wavelength. Here, we have taken  $E_E$  as Encephalo-transmission Energy.

### Planck's Equation and Encephalo-Transmission Energy

Before we understand the relationship between Planck's Equation and Encephalo-Transmission Energy, we must understand what a thought is. Scientifically there are two definitions of thought:

#### Reductionist Theory:

According to this theory, thoughts are basically physical entities which brings about certain chemical changes in our body.

#### Dualistic Theory:

It states that the mind is a separate part of the body and thoughts are not a physical part of the brain. [5] Thoughts are never constant and are always variable. They depend entirely on the external conditions and the situation we are in.

#### Thought and our Body:

Different thoughts have different impacts on our body. For example:

a). Stress: Stressful thoughts lead to worsening of physical illness and less productivity of brain and other vital organs of our body

b). Fear: This leads to the secretion of adrenaline which results in the flight or fight reaction.

Thus thoughts or Encephalo-Transmission Energy leads to the initiation of chain reactions in our body.[5]

**Theory of Special relativity:** This equation explains the relationship between space and time for objects moving in a straight line at a constant speed. This equation shows that both energy and mass are interchangeable. [6]

The equation is modified by replacing the energy  $E$  by Encephalo-Transmission Energy  $E_E$ . We consider that the shortest distance between the two points is a straight line. And the movement of a thought of mass  $m$  from one point to another is also along a straight line.

Thus we have replace energy  $E$  by Encephalo-Transmission Energy  $E_E$ .

$$E_E = mc^2 \quad [7]$$

$E_E$  can be calculated using the EEG[2], [10] at alpha, beta, delta and theta frequency.[8], [10]

An average of  $E_{E\alpha}$ ,  $E_{E\beta}$ ,  $E_{E\delta}$  and  $E_{E\theta}$  energy is taken and this value is put in the theory of special relativity to give the mass of a thought.

$$E_E = (E_{E\alpha} + E_{E\beta} + E_{E\delta} + E_{E\theta})/4$$

### III. DISCUSSION

#### Applications of Encephalo-transmission Energy $E_E$

1. **Medicine:** The Encephalo-transmission Energy  $E_E$  can play an important role in the cure of many mental disorders and diseases like clinical depression, headaches arising due to stress. Think of going to a doctor with a headache and instead of prescribing a pill to you, he/she tells you to sit down on an Encephalo-transmitter and uses this  $E_E$  as electrical energy to use or charge electrical appliances, say his mobile phone.

2. **Technology:** As thoughts generate energy in the form of  $E_E$ , this can be converted into other forms of energy which can be used to run various gadgets. This will also save the tremendous amounts of resources that are used to generate electricity. Moreover it will be the cleanest form of energy with zero carbon emissions.

3. **Criminology:** The  $E_E$  can play an important role in controlling notorious thoughts going on inside a criminal's mind. As criminal activities are a result of criminal thoughts so, if such thoughts are taken outside of one's mind and converted into useful energy and thus, can be used to prevent crimes. This will make the world more peaceful and free of crime.

4. **Teleportation and Telepathy:** The physical state of thoughts can effectively answer the very existence of telepathy and teleportation.  $E_E$  can be used in further studies of quantum teleportation [9] and can make this a reality one day.

5. **Moving on from Automation to Encephalomatation:** Today's world is a world of automation where everything is controlled by remotes, mobiles etc. With the introduction of  $E_E$  we can move on from automation to Encephalomatation i.e. we can control many things with the help of our thoughts.

6. **Attaining Artificial Immortality:** The phenomenon of Artificial Immortality was discussed in March, 2012 at The International Global Future 2045 Congress held in Moscow, by Dmitry Itskov. In 2015, Elon Musk donated \$10m to the Future of Life Institute and the world started talking about it [11]. Thus by calculating the mass of a thought, the thought of an individual can be transferred or stored in the form of data, making Artificial Immortality a reality one day.

**7. From abstract to material noun:** At Last but not the least, this could result in changing all the dictionaries. We all know that thought is an abstract noun, but by finding the mass of a thought, it should be categorised as Material noun.

### Defining New Terms

#### Encephalo- transmission Energy

This is defined as 'a type of energy emitted by our thoughts through our brain'. It is denoted by  $E_E$  and its unit is Joule (J). It is a variable energy and its value depends on the nature of thoughts. The value of the energy varies based on factors such as age, sex, time, temperature and state of mind. This is one of the cleanest form of energy with zero carbon footprint.

#### Encephalomatation

Controlling or manoeuvring of a substance or gadget using the Encephalo-transmission Energy emitted by our thoughts is called Encephalomatation.

## IV. CONCLUSION

Thus we can conclude that thoughts have mass and their mass can be calculated by using modified Planck's Equation and modified Theory of Special Relativity. The Electro-encephalogram (EEG) is used to get  $E_E$  at different frequencies of alpha, beta, gamma and theta. This will give us  $E_{E\alpha}, E_{E\beta}, E_{E\delta}, E_{E\theta}$ . The average of these four will give us the value of Encephalo-Transmission Energy. During the course of study, we came across two new terms, Encephalo-Transmission Energy and Encephalomatation which have been defined in the paper.

#### Further Studies which can be done:

- 1). A device can be developed which can convert the Encephalo-transmission Energy  $E_E$  to other forms of energy. This could be helpful in the field of Medicine, Criminology and Technology.
- 2). Further studies could be done on Teleportation using Encephalo- transmission Energy  $E_E$ .
- 3). Enhancing the Encephalo- transmission Energy can help in making Encephalomatation a reality. Studies could be done on enhancing Encephalo-transmission Energy.
- 4). The correlation between the Encephalo-transmission Energy and mass of thought can further help in strengthening the phenomenon of Artificial Immortality.

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