

# Production of Senses Pain and Thoughts by Planck and Einstein Theories

## Abstract

The Salerian thesis of thought (SET) proposes that our brain produces energy products of emotions, pain and thoughts consistent with Max Planck theory of radiation and Einstein's theory of photoelectric effects of light. SET may be of value to invalidate our man-made split of brain - mind paradigm of brain function.

## Conceptual Paper

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## Introduction

One of the most basic functions of our body is movement. Newton's laws of motion help us understand how we move different body parts. What is the basic function of our brain? To produce senses, pain and thoughts. What are the physics involved in production of emotions, pain and thoughts? Is it possible that emotions and thoughts are energy products produced by physical laws theorized by Planck and Einstein? In order for our brain to produce emotions pain and thoughts invisible forces-eigenvalues- must operate. This may partly explain the relatively limited psychiatric research in investigating the physics involved in production of emotions and thoughts.

## Hypotheses

Sensory input is registered by our nervous system and transformed to emotions, pain and thoughts. Our brain works as a factory to generate pain, emotions and thoughts. The Salerian thesis of production of thoughts -SET - proposes that senses, pain and thoughts are energy products emitted like radiation consistent with Max Planck theory and Albert Einstein theory of light [1]. Einstein described light as quantized. Light consists of particles called photons. He proposed that the number of photons must be integer, an integral multiple of  $hf$  - the energy of a single photon-[1]. The energy-emotion, pain, thought- generation is a step-by-step process and it is not one continuous flow of production.

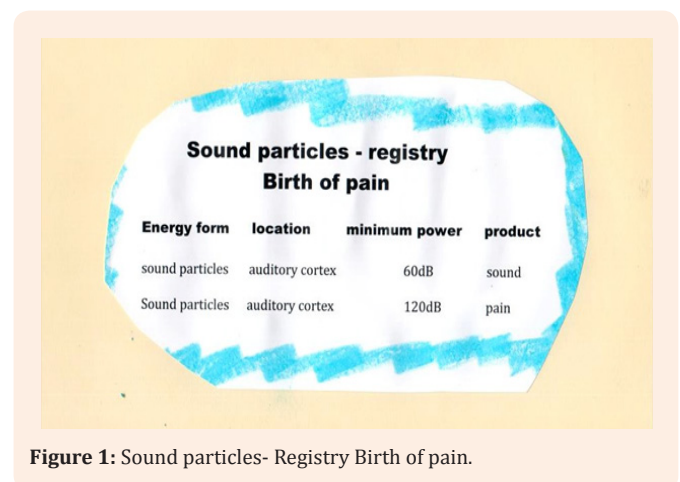
Minimum energy is necessary for a sense to become emotion, pain and thought. This step-by-step process demands minimum energy- a single punch of sufficient power-for a new energy product to be produced.

1. Step 1: Sense
2. Step 2: Minimum energy of sense = Emotion
3. Step 3: Minimum energy of emotion = Pain
4. Step 4: Minimum energy of emotion+ minimum energy of pain= Thought
5. Step 5: Minimum energy of thought+ minimum energy of pain= Decision
6. Step 6: Minimum energy of decision + minimum energy of pain= Action
7. Step 7: Minimum energy of action + minimum energy of pain= Plan
8. Step 8: Minimum energy of plan + minimum energy of pain = Strategy

9. Step 9: Minimum energy strategy+ minimum energy of pain= New strategy

## Minimum Energy and Quorum Sensing

Science says it takes a minimum amount of energy to start an action. Biology says it takes the collective effort of a minimum number of cells to perform a function. Quorum sensing seems to be the essence of brain function with distinct and diverse groups of cells working in concert to perform a function [2]. Quorum sensing was first observed by the discovery of fluorescent bacteria lighting up only with a minimum number of bacteria functioning as a team [2]. It seems that for each function to be performed there must be not only highly specialized cells but a minimum number of them. For instance hearing demands special sound cells and a minimum number of them to perform collectively to produce a sound .Above 60 dB sound waves would be registered at the auditory cortex as sound. Too loud or sounds above 120 dB would be registered as pain [3]. In essence sensory input above and minimum energy threshold generates pain [3]. This suggests for a pain product to be generated a combination of different sensory inputs or a single sense with minimal energy would be necessary [Figure1,2].



**Figure 1:** Sound particles- Registry Birth of pain.

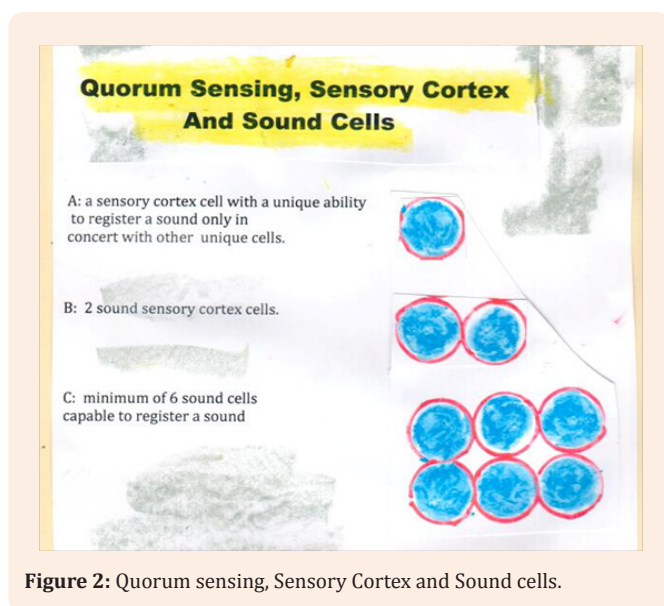


Figure 2: Quorum sensing, Sensory Cortex and Sound cells.

### Discussion

SET is a hypotheses based upon two fundamental physics concepts of Planck theory of radiation emission and Einstein theory of photoelectric effect. The classic physics paradigm" energy is matter, matter is energy" is also of significance in transformation of a sensory input to pain-a different emotion-that triggers a chain reaction resulting in an action. Furthermore this is consistent with the observation that musical input-sound waves- could alter mood through mediation of brain endorphins and dopamine. Nonthreatening, non-alarming musical input elevates mood by increasing prefrontal cortex dopamine and thus eliciting euphoria [4]. In essence brain is the factory which transforms sensory input to different states of emotion and action. Noteworthy is the observation that senses emotions thoughts actions are different forms of energy consistent with the physical laws.

### Theories

- Emotions, pain, thoughts seem to be energy products of brain and they represent different forms of energy.
- Brain generates thoughts and actions by transforming sensory input consistent with Einstein – Planck theory of radiation emission and photo electric energy.
- Brain function seems to obey" energy is matter- matter is energy" law.
- Quorum sensing in biology seems to represent the law of minimum energy in physics.
- It follows that there cannot be a rigid differentiation of mind versus brain, soul versus body for they are interchangeable and they represent different forms of energy.

Further validation of SET through scientific methods is necessary yet it may serve as a new paradigm to further study brain function. SET may stimulate further discussions to abolish our man-made mind and brain split that impedes progress in psychiatry. It may pave new avenues of research into psychiatric disorders.

### Conclusion

There seems to be sufficient evidence to suggest the physical laws outlined by Planck and Einstein explain how emotions, pain and thoughts are brain energy products and represent eigen values and different forms of energy.

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