

A Study of Space and Time in Human Brain

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ABSTRACT

For a person being Alzheimer's diseased with a shrunk brain volume can feel the time slowly than normal and it seems to time pass quickly for them which can be potentially altered by the use of homeopathic Cocculus Indicus. If the time is exaggerated and space extended can be altered by homeopathic medicine Cannabis Indica. According to Wigner's theorem a transformation $A: H \rightarrow K$ antiunitary if it is bijective; and $\langle A\Psi, A\Phi \rangle = \langle \Psi, \Phi \rangle^* = \langle \Phi, \Psi \rangle$ If space Ψ and time Φ then uninterchangeable where A is an antiunitary transformation which is bijective antilinear map. Thus, theoretical explanation of above two phenomena can be provided which practically does not follow.

Keywords: Space, Time, Human Brain, Wigner's theorem

Human beings can feel three dimension of space and the positive axis of time as our brain having all neuronal activity can feel succession of events. For an Alzheimer's diseased brain with a reduced and shrunk brain volume can not feel proper time. As a person with shrunk brain volume seems to be time passing so quickly can be altered by homeopathic medicine like Cocculus Indicus. If a person with both the time and space exaggerated and extended can be altered by homeopathic medicine Cannabis Indica.

Both the situations as per Wigner's theorem in quantum mechanics can be described for a transformation $A: H \rightarrow K$ antiunitary if it is bijective; and $\langle A\Psi, A\Phi \rangle = \langle \Psi, \Phi \rangle^* = \langle \Phi, \Psi \rangle$

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METHODOLOGY

A person with reduced brain volume and complained 3 P.M. to be 6 A.M. is treated with Cocculus Indicus 200. Exaggerated time and extent of space can also be treated with Cannabis Indica 200. From studying both the cases the brain study is performed here and the theoretical explanation is provided with Winger's Theorem.

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Purpose of the study:

- To prevent Alzheimer's disease and reduction of brain volume which is related to space and time.
- To study brain space and time relation in detail.
- To explain the phenomena with theory.

Case Study

Mrs. Banerjee with age 90+, Female was suffering from Alzheimer's disease. Her brain volume also got reduced. She got violent and sleep was reduced. Her son complained "She is waking up at 3 P.M. and saying that now it is 6 A.M."

On the symptom the remedy *Cocculus Indicus* 200 was selected with 2 drops morning and evening each before eating. She is still now well with reduced symptoms.

In this case only passing of time quickly was the symptom. If exaggeration of time and extent of space both the symptoms are present then we should go for *Cannabis Indica* as per the symptom.

Wigner's Theorem and Explanation:

If A is antiunitary transformation such that it is bijective antilinear map: $A: H \rightarrow K$

$$\langle A\Psi, A\Phi \rangle = \langle \Psi, \Phi \rangle^* = \langle \Phi, \Psi \rangle$$

If continuous symmetry transformations are represented and T be such a symmetry then one has that $T(a) = T(b) * T(c)$

Where a , b and c are some parameters of transformation (angle or distance).

If U be a representation of T on Hilbert space then one also has

$$U(a) = U(b) * U(c) * e^{i\theta} \text{ where } \theta \text{ is real number}$$

Hence U is unitary.

Hence brain activity is invariant with time but it is interchangeable with space and time practically.

CONCLUSION

1. Person having Alzheimer's disease with reduced brain volume seems to be time passes quickly can be treated with *Cocculus Indicus*.
2. Person feeling exaggerated time and extent of space can be treated with *Cannabis Indica*.
3. Wigner's theorem can not be a proof of interchangeable space and time in brain practically.

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Conflict of Interest

The author(s) declared no conflict of interest.

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