

The psyche revealed by physical law

*Metaphysical and analogical approach of the psyche
based on thermodynamic law*

Introduction

Scientists expect the universe will unfold more dimensions in the future than we are aware of nowadays. What is the significance of black holes in this perspective, for example. Unfolding dimensions is a discussion which is related to scientific theories, like thermodynamic law.

We interpret scientific studies and connect the information to our existence. Let us assume that we are able to understand these interpretations of laws because of similarity to and validity in the area of the mind.

We are not able to prove this on a scientific way, so what approach makes sense? Using an analogy makes it possible to discuss the topic, keeping distance from complex theories of the mind. Applying scientific laws of thermodynamics on the psychological area might give us leads to the process of the mind. In addition, the process makes it possible to approach the psyche. A regular definition of the psyche is an integral condition of the conscious ego and unconsciousness.

The implications of the thermodynamic laws on the psyche will be discussed in the last paragraphs of the paper and there are leads to explain the conscious and unconscious areas of the psyche.

Why is this approach interesting? The psychological and religious faculties divide being in several areas, like spirit, soul and body. In this paper we will discuss the topic of the psyche more as a process. And to give an indication of the process, it helps scientific processes do appeal to our interest and imagination nowadays. Otherwise the discussion will tend to an abstract and maybe a normative explanation. And that is another reason to put it this way, because otherwise in the end we will define God somehow, and we force ourselves to answer the question if God exists.

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The paper is written from another point of view, applying scientific laws on the psyche, because it enters an area of connected dimensions of physics and mind. So instead of choosing the material or spiritual currents, it bridges different dimensions. And therefore the philosophy is an indication what happens if we think out of the box. It is guiding a certain approach and consideration of the condition of man, and not meant as a normative or directive contemplation. And with this remarks, if you are interested in a line of thought that applies scientific laws upon the psyche, I invite you to read this small paper.

And before we start with basic knowledge about thermodynamic law, we reassure the content is readable, even if you are not graduated in physical science. The laws are translated into spoken language and abstracted from technical formulas. To understand the paper basic knowledge and interest in physical science and psychological theories are recommended.

1. Law of thermodynamics

The first law of thermodynamics is about the conservation of energy.

This is valid under the condition of an isolated system. It is possible to change or transform the process, but not to create or destroy. The internal energy of a system has to be equal to the work done by the system plus or minus the heat that flows out of that system.

Living systems are always connected to bigger systems and do not stand alone.

So living systems on the earth use energy to do work for living, growing and evolving.

Within that system the energy is flowing through to fuel work for living, growing and evolving. This is in basic the first law.

So the energy which reaches earth, energizes us, gives a temporary working boost. This leads to the possibility of organization. In analogy, our mental ability enables us to erect a mental reflection of self organization, which goes beyond a physical manifestation from a biological point of view. Apparently in the combination of energizing the biological organization of the body at one hand and the mental connection on the other, images arise in the form of physical and mental representations. Art is an example of an idea or mental representation.

And if we apply the analogy strictly, we have to say something about the way the mind finds its way. In the physical sphere, energy flowing from the sun, energizes matter and leads to biological organization. So if we apply this in a similar way to the drive of self organization of the mind, the mind is empowered by a connected source, which enables him to erect an image of the self. He gathers energy to fulfill an idea, a working drive as a temporary boost to create an identity. Man has the power to erect a self and form an identity whereby he is empowered by the greater process or spiritual power to actualize his ideas.

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Man transforms energy trying to bring order in chaos. Because what reason would man otherwise have to create culture and more specific art beyond a natural habitat? His self-organization of the living body is expanded by erection of organizations, political, economic and nowadays more and more technological systems, which go further than that. The question why he acts like this is metaphysical, beyond the physical.

What image does man want to create in the visible world? Why does he want to create order in chaos? And therefore we introduce the second law of thermodynamics. For a central concept of the second law is entropy. Entropy stands for disorder, chaos, the situation the system has no internal energy left.

2. Law of thermodynamics

The second law of thermodynamics says that the total entropy of an isolated system increases over time. Entropy means chaos or (lack of) order. It proves that higher entropy indicates more chaos or higher lack of order in an isolated system. Systems left alone to their own devices will become less ordered because heat always flows from hotter to colder.

What happens if we combine this with the first law in the sense of living systems? The living system uses heat to fuel an increase in order in the idea that working and evolving systems become more ordered. Its the opposite of entropy. This is often a objection of evolution: you might think it defies the laws of thermodynamics.

This can easily be rejected because the living system is not isolated. It has energy flowing through that is fueling the movement of matter and the reorganization of matter to, in our perception, organized states, abiding the second law. Because the energy is flowing through from the greater system, which is the living system of the cosmos. So the overall entropy in general is still increasing, abiding the thermodynamic law because the heat of the sun is coming to the earth and is flowing through the earth, causing work and then flowing out from the earth in a less ordered state, back into the universe.

The energy flowing through the systems is fueling movement of matter. This reorganization of matter leads to more organized states and abiding by the first law that energy is flowing through from the greater system or universe. So it acknowledges the law of conservation of energy. It complies to the second law because the heat of the sun is coming to the earth and flowing through the earth causing work to happen and flowing out of the earth in a less ordered state back into the universe.

So if we isolate energy and try to reserve this in analogy to organize images, we abstract energy from the process to create images and identities. And in terms of biological evolvment, we are able to understand. But why do we use it for technological advance, for example? If we do do so, we erect an image for ourselves, don't we? We resist more chaos by empowering self-organization of body and projections of the mind.

Mind the organization of the self

If we translate the formula of entropy to the sphere of the mind, we start with the question in which situation we think we are out of control, falling into chaos. We are chaotic if we do not control energy to organize life, do we? And if we do not control our own self, if we neglect the self, we would be in a similar condition as the maximal entropy in physics, in an eschatological way. In that state there is maximum chaos in a static cosmos, without drive and internal energy. So we struggle with our selves, to erect and conserve the self, because we want to prevent chaos. Lets go further with this problematic discussion. If we assume we do not erect and strive for the self, we will accept the way energy flows instead of redirecting it to erect the self. The advantage is we won't fight with each other for the best and greatest position to promote and erect the self. Man would be more humble to the process of life and to each other. And by intervening in the process, man creates a temporary self. But by doing the last, entropy won't be hold back abiding by the greater process.

So the formula in analogy to entropy, translated to the psyche, might convey the relation of the self in terms of humility. The greater the humility expressed by the self, the lower the energy and lasting entropy of the psyche. Man has metaphysically accepted chaos, the flow of the proces and so the transformation in macroscopic proportion.

Consciousness of the relevance of humility, in contrast with hubris, leads to abstraction of the drive to create the self and its images, and connection abiding the first law. We do not longer focus upon a closed system, in the neurotic perception we might close the system on our own behalf, but are connected to the process beyond the egocentric individual.

So, the greater the hubris, the greater the potential entropy abiding by the law of thermodynamics, the way to chaos. So, in analogy to the second law, we create an image of and for ourselves, but nevertheless the entropy will increase. The potential chaos will increase relatively, because the self organization will not hold at the end, and so will the process beyond physics tend to break resistance. Hubris does not resist in analogy to the universal process and is in contrast to the process of the mind in universal and moral perspective, an enchantment.

From a physical and scientific perspective, we might intuitively adopt the idea our behavior is a mental dead end, working hard for temporary esteem, besides physical needs. We know we will physical fall into the inevitable proces of falling apart if we decease. The mind enables us to think in a continuum between a full empowerment of temporary self realization (egocentric) at one side and a harmonious and humble attitude with God, the social and natural environment and yes, with our selves, at the other side. One of the problems is, we have no anchor, and if there would be one, we would not have to fulfill ourselves with the temporary needs. The only way is like religions proscribe, to abstract from our own selfish needs and, maybe more important, thoughts. We are thrown back upon the universal code and moral infinity, God. In this perspective, the self is embraced by the great process. It is not strange man seeks for divine motives in life, and psychological we will mention resisance leads to schadows, psychological distress and need for support of the divine.

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By designing a formula, the thermodynamic laws reveal in analogy the mental state of the psyche. Because of this continuum, it seems we are captured in our own process of the mind. Why? Because total devotion to the spiritual proces or God, demands us to abandon our physical and mental needs to erect the conscious self totally. Who is able to do so? Zero hubris means not human, but tends to being a God. So the demands are high, but inevitable. Because what choice do we have? And about choice: this embodiment of judgment refers to this problem of a golden cage too, which is discussed in a previous paper (Resonance).

Formula

We will design a conceptual formula of the mind, applying the law of thermodynamics upon the psyche.

This formula gives us an entrance to discuss the analogy and is of course not a scientific law. It is more an experiment of thought.

(1) Abiding the laws, heat can never pass from a colder to a warmer body without some other change.

In analogy, erection of the mental self will never fulfill the idealistic image man strives for or equals the original remembrance. Our heroic and philanthropic ideas we start with, won't be fully accomplished.

(2) Abiding the laws, it is impossible for a self-acting body to convey heat from one body to another at a higher temperature.

In analogy we are not able to create the self, organizations, states intrinsic to enduring and actualized images of the mind for we are in similarity activated by process of the mind.

Conceptual formula: entropy of psyche might be compared with the degree of self organisation in relation to the conscious erection of the self, i.e. hubris.

We organize life, and by working on ourselves, we are not able to transcend ourselves abiding and in analogy to the laws, but making our lives comfortable by isolating us from universal and moral code, erecting idealistic images which will never will bring us to the original ideas.

We defy this by the statement of survival of the fittest and egoistic economic theories, which is a perspective dealing with the self, because it seems to be an inevitable tendency belonging to existence along with embodiment to find an explanation to resist chaos.

In addition there is a tendency to activate residual manifestations of the psyche, for we erect artificial selves, like avatars and stimulation of artificial intelligence, in adoration of the creation of a universal enduring self. This is a projection of hubris and not recognized as stimulation of entropy of the psyche. And so will it be by domination of avatars and artificial intelligence, probably creating more shadows than harmony, eventually.

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The contribution to peace of the mind is problematic, because we erect things and thoughts which get out of control. The neurotic and psychological problems will grow and this is an indication why to stimulate 'knowing thyself'.

The formula of the entropy of the psyche suggests we are only able to escape entropy of the psyche, if the hubris is zero, so maximum humility 100%. This is a strictly technical approach. The formula gives only some direction to our state of mind. We cannot prove this on a physical way, only assume and discuss best practice based upon similarity and analogy. And, intuitively, the formula confirms the religious currents that encourage us to be humble.

In the line of the formula, a connection with universal code and moral awareness arises. Universal code because we are not busy with the erection of the self alone, but more adaptive to the happening in the environment and cosmos around us. Moral awareness, because humility and morality are connected concepts.

And what happens if we try to look into the self, projecting the mind upon itself? Entropy is relevant in macroscopic conditions. These conditions are irreversible. Microscopic conditions are reversible, which means there is an absence of the arrow of time. Which condition coheres with microscopic conditions? If man concentrates on one point (in time) and contemplates, introspection approaches the condition of microscopic mindset. The mind as

a unit circle is not longer growing, unfolding, fueling itself with images. The mind centers to a mental singularity, but like earlier suggested, problematic to unify with.

Apparently by applying physical science upon the psyche, there are leads to identify the process of the mind and understand the working principle of the psyche. Is it possible to connect these leads to a psychological perspective?

Psychological perspective

In the formula the psyche is a power in the continuum of the spiritual flow and erected or isolated consciousness. The spiritual flow is constantly on the move, like is described in the paper 'Chemistry beyond physics'.

In relation to Jung, the spiritual flow is representing the psyche as a whole, together with the conscious ego. The psyche erects with the conscious part the ego and so a certain resistance with the whole and the integral self. Apparently this confirms the unconscious mainstream of the greater process beyond physics and the resistance of the erection of the egocentric self we mentioned earlier in the paper.

The ego and thereby the erection of the residual self attaches to the in matter embedded embodied life, and so next to physical development, evolves a mental erected self.

But the resistance of the residual self will not be able to hold on. And this confrontation is massive and problematic and brings fog or even shadows, because if we won't ignore this fundamental flow, being in the ecstatic mood of self-realization, we will reach at best a pyrrhic victory. You see, it seems we mostly fight against our selves. In the end, there is no enduring erection of the self, being absorbed by the great process beyond physical or mental creations, so residues.

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