

# Mind gap

*Mathematical theories as indication for dual and unifying thinking patterns*

## Introduction

What humans create and build is impressive. Apparently we are able to transcend certain boundaries in comparison with nature in general. The fact we created the possibility to fly with airplanes and spaceshuttles in the hemisphere and to the moon are examples of this extraordinary ability. This step is a big one in the existence of human kind. Apparently our mind is not only capable of experiencing the sensation of seeing the moon, but also to define the aim going there. And that is interesting, because we do not need to go to the moon for a biological reason. In this article we will mention this behavior and link it to the way our mind works. The mind connects hemispheres and curl distances. The principle we follow is abduction and interpretation of mathematical axioms and theories. We think that these theories might be an indication of the way our mind works and is coherent with reality we perceive and assume. Ultimately, we act upon these principles. In the curling of the unit circle, we find an interesting approach which reveals something about a spiritual reality as well, in our search for unity.

In this paper we will first search for an explanation for the tension we perceive in light and darkness. We will mention by the theory of stereographic projection that the pattern of the mind is focused upon bringing these extremes together. Besides, mathematical theory proves infinity, we might call God, is not reachable by our thoughts in dynamic thinking like stereographic projection. I call this the mind gap. It challenges us. Physical awareness shines like the light of the moon upon us. We find this gap hard to accept, because mankind searches for a spiritual relation with reality and God, a unification. The unit circle indicates this mindset. We find in the theory of Kaluza-Klein starting points to bridge this duality. The consequence might be a more reflective and contemplative mindset instead of dynamic and choice-driven perspective.

In the paper we unfold the mind by explaining mathematical theories and we do so by the use of analogies. The intention is to give a philosophical point of view based on mathematical principles which transcends the theories. The paper might be interesting if you are interested in the relation of the mind and reality from a philosophical perspective.

## Indication of duality

Somehow we search for bridging a gap to an aim beyond natural habitat, like the moon landing indicates. We are attracted to light, like the rays of the sun and the reflection of light by the moon. Darkness is the symbol of death and disaster. However, privatio of light, darkness, could also be seen as a period of hope, disposition and contemplation. This duality dominates thinking, but we do not often pay attention to this thinking pattern. Is it possible to give an explanation for this mindset? If we ground thinking patterns upon stereographic projection, which represents a mathematical way as indication how the mind works, the mathematical abducted distance between the starting point and infinity is two, and so hints to duality. Still, we are focused upon understanding the enchanted reality. We try to map reality by concentration.

## Concentration

Even more interesting might be the way the mind models reality, to understand the world we live in. Understanding is based upon an analogues explanation and interpretation of the theory of stereographic projection (which is explained in the previous article in more detail). We make the three dimensional world two dimensional, in the way we project and map it. Besides, we abduct time, to freeze the image in a moment of time. So we might even say the mind makes it possible to ignore somehow four dimensions (including time) to make the world more understandable, by imagine and concentration. Concentration is a way to make reality understandable.

But the tension in life by bringing together two hemispheres, can not be ignored.

## Mental tension

We might claim concentration upon reality leads to a flat model of the world, centralizing reality in a flat line or point. By doing so we integrate the upper and lower hemisphere. Bringing heaven and hell nearer to one point, advances tension.

What does the tension do to thinking? Like matter bows by tension, so does reality by the tension of concentrating the upper and lower hemisphere. Bowing makes the perspective edgy and less pure, breakable. We cannot see clear and so we do perceive shadows and distorted view.

### Breaking perspective

This tension gives a strange problem in existence. We think we are able to solve the distance between heaven and hell, but we only abduct extremes, without solving the duality. So we think we are able to bring the hemisphere within perspective but are not able to bridge the gap and duality. If we do not unfold our mind, to the right relations and proportions, we break reality and feel strange about duality.

It is like the reflection of the rays of the sun by the moon, less pure and in another angle than from the original source. In this mode we will not enjoy the unification the mind seeks for, apparently.

### Alienation

By centralizing reality in a point, duality rises, because the thinking pattern of concentration is in tension with the physical pattern and sensation. It is like an internalization of reality and thereby an alienation of the physical reality. The Kaluza-Klein theory hints to a five dimensional application of points in time-space. The way the mind works in compacting reality is difficult because of the tension of hemispheres and mathematical proven duality between the point of infinity and the point of origin (0). Distance stands in contrast to unification we aim for, apparently. The mind presupposes unity, striving to understand reality from one point of view. In previous articles the analogy of the unit circle is mentioned in relation to unification of reality.

### Unit circle

Kaluza stated that no component of the the fifth dimension metric does depend on the fifth dimension, implicating a lot of freedom. Klein referred to this fifth dimension and suggested a curled tiny unit circle (radius  $10^{-30}$  cm).

And this is interesting, because previous articles I wrote indicate a significant relation between the mind and the unit circle.

This seems to fit the analogies in the previous articles very well and give a new support to the theories of resemblance and balance between mathematical principles in reality and the patterns of the mind. Does reality resemble time and space or does it transcend this dimension as well?

### Beyond time-space

The philosophy is based on the analogy of mathematics and the human mind. Stereographic projection indicates a thinking pattern from a center we call mind that maps and compacts reality. A problem of the mind is it seeks unity, as we stated above. But as long as the mind adheres time and space, by scanning, mapping and projecting hemispheres, duality exists. But Klein claims something else. In relation to this tendency, the fifth dimension might curl on a tiny scale reality, whereby no component depends on it. So there is no elementary or material relation with reality in terms of space and time (the first four dimensions). The mind is able to focus on time-space on the one hand and beyond on the other. This might in analogy lead to a level of consciousness which gives another sort of tension than shadow and light; in the nature of the mind it indicates instability on the one hand and balance on the other hand.

### 'Unruhe' and harmony

And if reality curls like the radius of the unit circle, in analogy of the patterns of the mind, reality concentrates and unfolds. On the one hand, the dynamic movement marks 'the Unruhe' of our thoughts and destination. On the other hand, the principle of the theory of Klein is that the particle always returns to its origin and leads to an original point. Whereas the mind connects in analogy of stereographic projection the upper and lower hemisphere, embedded in duality, doesn't the mind culminate in this level beyond time-space in a compact particle, in analogy offering a way out to transcendence?

## Spiritual rise

Beyond the dynamic tendency, in the return to the point of origin, man reaches stillness and repentance, consciousness and remembrance. In the point beyond time and space the radius does return to, we might experience a glimpse of God and go beyond four dimensions, in transcendence. This unifying consideration is a tendency of the mind. In the light of the moon by stereographic projection, duality will endure. In analogy of the curling of reality, with a reference to the point of origin, we transcend time and space in consciousness by receiving or connecting an original source. But instead of the adhering to matter, this transcends matter.

In this contemplation, by receiving reality instead of dynamic projection, we are receptive to bridge the gap. We transcend consciousness by returning to origin in stillness and enchantment of life. However, we are distracted and out of balance by the dynamic thinking patterns of the mind if we seek for unification.

This is an interpretation of the thinking patterns, based upon mathematical analogy which I assume is embedded in the mind.

In this mode the experienced duality is transcended and appeals to a harmonic source, opening the mind to the rays of the sun instead of the reflection of the moon alone.