

Thinking of the moon and the sun

**Based upon similarities to
stereographic projection
and unit circle**

Introduction

In this paper we will discuss patterns of thinking by using similarities to mathematical rules. In philosophy it is an often used practice to approach the mind by abduction of maths. Enlightenment and so modernity are for a great deal based upon this practice but also the Ancient Greek like Plato applied mathematical logics to support philosophical theories.

Plato built his philosophy upon an analogy of the sun in the perspective of the Idea of Goodness. In this paper the idea will be introduced of an analogues meaning of the moon, based upon geometric models.

To apply mathematical theory and abduct the way we think, we will rely on stereographic projection. This suits the analogy, because it is a general accepted and known mathematical theory. Furthermore, the theory is relatively easy to imagine, because it describes the way we project and map spheres.

In revealing the fundamental thinking pattern in which we map, it is interesting we do not start mapping and learning from the center. We project the sphere from a point of view of the edge of a sphere. However, we are learned to think and use reason as centre of the mind. This is questionable. The pattern of stereographic projection as similarity to thinking patterns indicates a more dynamic process of thinking. The projection starts at the edge, in reverse to the central point, as if we project thoughts at the marked boundary first, to reflect this point towards the centre and surroundings. Its like a catapult, pulled from the center, releasing and unfolding interaction between the mind and physical and imaginary reality.

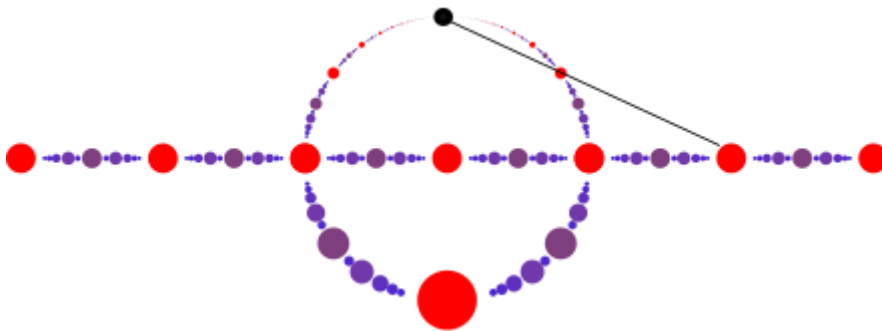
If we follow basic logic of geometry and interpret it, resemblance to another geometric model appears. The unit circle which resembles the inner sphere of the soul, also by applying an analogy of maths to philosophy.

So this paper discusses the relation between mathematics, thinking and reality. It is meant to open a discussion. Man is focussed on the physical environment with all kinds of extreme consequences (greenhouse effect for example). Research upon the working of the mind, might bring light to a balanced approach of God, our psyche and the world. 'Know thyself' is a familiar quote. Philosophical affinity is recommended to read the small paper with interest. The paper is meant to invite to overthink the processes of the mind and inner psyche. We start with geometric models and will discuss some ideas refering to the models.

Stereographic projection

In mathematics a stereographic projection is a perspective projection of the sphere, through a specific point on the sphere (the poles), onto a plane. So if we apply the sphere, in other words make it visual, we use stereographic projection. To visualize a sphere, we need to draw the plane from a postulated point. Then, because we are not able to draw the sphere from one pole, determine a second point and second plain to fulfill the projection.

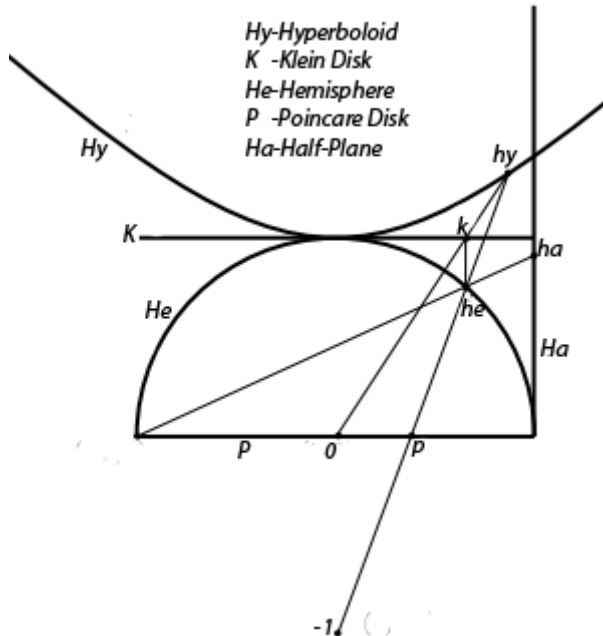
So the mind is able to construct from two different points of view two planes in order to project a sphere in visual reality.



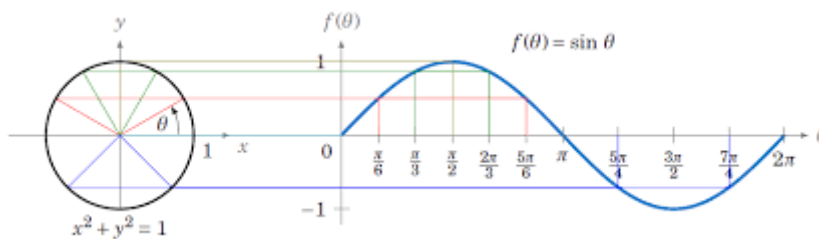
The rational points on the circle correspond, under stereographic projection, to rational points on the line. (Source: Wikipedia)

Connection with models of geometry

There is one specific point wherein models of geometry are connected. The Poincaré disk, hemispherical and hyperboloid models are related by stereographic projection from two dimensional point $(0, -1)$. Source: wikipedia (hyperbolic geometry).



This point is also connected to and visualized in the geometrical unit circle, which is discussed in previous articles. The unit circle corresponds with the static (harmonic) and dynamic side of the soul (paper 'Unit circle'). A characteristic of the unit circle is its radius, with sinus and cosinus waves as result.



The combination of the models and applied similarities to the process of the mind opens doors to insights about (for example):

- influence and analogy of thinking to celestial bodies;
- ideas of partial moments and continuity of thinking;
- activating memory by reverse thinking patterns;
- theories of lower hemisphere and unconsciousness.

We will discuss these ideas in short.

Ideas and discussion

The implications and discussion are contemplative thoughts and ideas rather than logical rationalizations. There are in my opinion no mathematical theories that support there relations (yet).

Do we think similar to the reflection and projection of light from the moon?

If we combine both mathematical models, we see an interesting visualization of the way we think. The radius turns around the centre of the circle (of the psyche) like it does in the unit circle. It looks like thoughts are ad random, the angles chosen arbitrarily and drifting. Is this not the nature of experienced thoughts that seems to drift and hardly subjected to conscious reason?

By using the edge in stereographic projection (like the reflection of the moon), we map reality which we try to understand. By projection we try to map reality in an understandable way.

Disturbance and continuity of thinking

The possibility of shifting angels of the projection leads to disturbance of the centre of the soul, and the process of partial thoughts and disrupted moments, in analogy to the light, tides and waves as consequence of the influence of the moon upon earth. Thoughts are not static but on the move. The model of the mind might be an analogues model of the earth and the moon. It marks the question about the sun (God).

Thinking backwards to detect the hemisphere and beyond

From a marked point of view we are able to project our thoughts whereon we focus upon the hemisphere above us. If we start in $P(0,0)$ at the centre and approach in reverse $P(0,-1)$ and project it to $P(\infty)$, we think of infinity and God. We think backwards, like a memory, to get a glimpse of $P(\infty)$ or Plato's sun. If we mark the way we think, and need to go beyond the centre of our psyche, we first think in reverse. So it is logic we have to question the centre itself (our starting point and point of unfolding existence). For the best we might step back to project the reflection of mental moonlight, not catching or possess it.

Maybe man inherited his neurose to possession because he wants to get grip upon his life, in a turmoil of changing thoughts and angles of projection. From the point of view of the geometrical psyche, based on analogy of two models to the mind, succes is at least questionable.

Process of projection in lower hemishere

We think by inverse reflection and then project. The world we map is filtered by the way we approach it, because we use the reflection of the mind to enlighten reality. We empower the world, but the question is if it supports $P(\infty)$. Therefor, it might be a consideration to be aware of the lower hemisphere. This is a place that is not filled by projections and unknown or unconscious depth for it asks introspection.

The combination of two geometric models are discussed and interpret in the light of processes of the mind. It opens a door to ideas about analogue celestial influence, emphasize on infinite and upper hemisphere, drifting thoughts, obsession for matter, and lower hemisphere or unconsciousness area.