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Space

- First some generalised problem formulations.

A claim by synthetic judgement:

Consciousness is awareness of space!

Consciousness is space - or space is consciousness! Consciousness is a substance for space, whose subjects are observers. Here the prerequisite for the epistemology of realization is the observer. The observation is a priori for the realization of any *entity* (something) in space. Space is a priori for observation.

The observation acts according to Immanuel Kant's view of intuition is two kinds of conception: Time and Space which are the a priori condition in a transcendental manner to Nature per se.

I see an *entity* (a thing) in a location in space.

When I close my eyes, I see nothing but space, as I remember that space is. If I hear a sound from that *entity*, I hear the sounds coming from its spot in space (stereo). When I do not see, or hear it more, I still can find the causing *entity* from memory and grip it in by my hands that I saw before I closed my eyes and as I just heard the sound from its position. Memory is basic for realization.

Intuition is in this way also the immediate intelligible observation of memory.

An *entity* (something) happens in what we call space. How to recognize this? An **object**! A claim: The **difference** Δ that happens is the basic characteristic of enlightenment. Another *entity* (something) must be able to remember the difference Δ . Memory is the **subject!**

According to René Descartes; space is what contains the extension. A claim by synthetic judgement: No extension without a difference Δ It is known that **extension** may have what is called more physical dimensions. From Descartes's idea of extension, and the perpendicular tradition there are three spatial dimensions, length, breadth, and depth. These qualities are known back to Aristoteles.

The Linear Natural Space in Physics 4.

Before we begin with the geometry of physics, we will set a description of generalised abstract mathematical rules of arithmetic, a so-called algebra, which throughout history originally is developed to calculate the geometric conditions, but which also can provide options for determining locations of entities in physics. Simply expressed:

- where are things in space and
- what is their extension?

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II. The Geometry of Physics