Influence of Time on the Movement of Matter

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Abstract

The article considers the possible influence of time on the movement of matter. The concept of time perturbation is introduced. The influence of the gradient of the inhomogeneity of the course of time on the motion of matter is described.

1. The concept of the movement of time.

Further, the concept of a point in space corresponds to the minimum discrete element (minimum part) of space. The concept of an element of matter corresponds to the minimum discrete element (minimum part) of matter. At one point in space there can be only one element of matter. In turn, the concept of the movement of time implies that time cannot be present at once in all neighboring points in space. The course of time determines the step-by-step presence of time in neighboring points of space (Figure 1). Without the presence of time, there can be no movement of matter from a point in space. For a certain number of steps (stage of the course of time), time will visit all neighboring points of space with its presence (Figure 2). Neighboring points of space, which during the stage of the course of time will be visited by time, we will call an element of space (Figure 3).

Figure 1.
i time step, time is present at all **i**-th points of space.

1	2	3	1	2	3	1	2	3	1	2	3
6	5	4	6	5	4	6	5	4	6	5	4
7	8	9	7	8	9	7	8	9	7	8	9
1	2	3	1	2	3	1	2	3	1	2	3
6	5	4	6	5	4	6	5	4	6	5	4
7	8	9	7	8	9	7	8	9	7	8	9
1	2	3	1	2	3	1	2	3	1	2	3
6	5	4	6	5	4	6	5	4	6	5	4
7	8	9	7	8	9	7	8	9	7	8	9

Figure 2

The stage of the passage of time, time visits all points of space with its presence.
In the example, the time step **i** is from 1 to 9.

1	2	3
6	5	4
7	8	9

Figure 3

Time stage for the element of space.
Time visits with its presence all points of the element of space.
In the example, the time step **i** is from 1 to 9.

2. Homogeneous and inhomogeneous course of time.

Let's call the motion of time in space, in which there is no matter, homogeneous. The presence of matter leads to an inhomogeneous movement of time in space. The difference between homogeneous and inhomogeneous motion of time will be called the perturbation of the course of time.

3. Influence of perturbation of the course of time on the movement of matter.

The magnitude of the difference between the homogeneous and inhomogeneous motion of time in an element of space will be called the magnitude of the perturbation of the course of time in an element of space. Perturbation of the course of time in the element of space leads to the displacement of matter located in the element of space. The movement of matter from one element of space to another element of space is carried out in the i-th step of time. The magnitude of the movement of matter is determined by the magnitude of the difference between the magnitudes of the disturbance of the course of time in the elements of space. The gradient of perturbation of the course of time in the i-th step of time determines the magnitude of the movement of matter from one

element of space to another element of space. In this case, in which element of space the matter will be moved depends on the gradient of the perturbation of the course of time.