

Hubble Law indicates intelligent design of universe

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Abstract

It is believed that our universe has been expanding since its inception based on observations made by Edmin Hubble that receding speed of galaxies increase with the distance from earth. This short paper describes mathematical models which indicate the possibility that receding speed of galaxies can increase in case the universe was created as a result of series of highly creative events.

1. Hubble Law

Galaxies in our universe contain large number of stars. Galaxies are receding away from earth at a very high speed. Vesto Melvin Slipher, an American astronomer observed that nebula is receding from earth with the speed up to several million miles per hour [2,3]. Another American astronomer Edmin P. Hubble observed that nebula is a collection of billions of stars. Hubble also found out that the receding speed of galaxies increase with the distance from earth [1]. This is known as Hubble Law and is described as:

$$v = HR \quad (1)$$

Where,

$$H = 17 \cdot 10^{-3} \text{ m/(s.lightyear)}$$

R : Distance of galaxy from earth.

v : Speed of receding

Hubble Law is thought to have 50% accuracy. Hubble suggested that expansion of universe is responsible for galaxies moving away from earth.

2. Moment of universe creation

Let's consider the very basic principle of physics to determine alternative mathematical model which can also be responsible for galaxies moving away from earth. From very basic physics it is known that:

$$v_f = v_i + at \quad (2)$$

Here,

t : Duration of time during which change in speed of body is observed.

v_i : Initial speed of body at the start of duration t at time instance t_0 .

a : Rate of acceleration.

v_f : Final speed of body at the end of duration t .

Now consider two bodies A and B with following relationship:

$$v_{f(A)} = v_{i(A)} + a_A t_A \quad (3)$$

$$v_{f(B)} = v_{i(B)} + a_B t_B \quad (4)$$

The distance can increase between two bodies moving in the same direction as observed by Vesto Melvin Slipher if:

$$v_{f(A)} \neq v_{f(B)} \quad (5)$$

Let's assume following special conditions for equations (3) and (4):

$$v_{i(A)} = v_{i(B)} = 0 \quad (6)$$

There are three cases under which the equation (5) and (6) can be satisfied.

Case 1:

$$a_A = a_B \quad (7)$$

$$t_A \neq t_B \quad (8)$$

Case 2:

$$a_A \neq a_B \quad (9)$$

$$t_A = t_B \quad (10)$$

Case 3:

$$t_A \neq t_B \quad (11)$$

$$a_A \neq a_B \quad (12)$$

Let's look in details each of the above case:

Case 1:

Let's assume that each galaxy in our universe contains equal amount of matter and each galaxy at the time of the universe creation was thrown in specific direction with same force which resulted in same acceleration rate for all galaxies. Only a highly controlled event can result in galaxies of equal mass which started their journey containing equal amount of energy.

Only a highly controlled event can also result in galaxies of different mass gaining same acceleration rate. Gravity can be also one of the force under which equation (7) can be satisfied as objects fall down toward earth's surface with constant acceleration rate regardless of their mass. Under such assumption equation (7) indicates possibility that cosmological bodies are moving toward something with constant acceleration rate under influence of gravitational force. It is thought that universe size is changing. Universe can expand if our universe is enclosed in a spherical shape container of very dense mass and this spherical shape container wall is pulling galaxies toward itself due to gravitational force.

Condition (8) means that body A and B have been in motion for different interval of times. It indicates possibility that cosmological bodies were created in temporal sequence and pushed toward specific direction in which they have been traveling with constant acceleration regardless of difference in their mass. Condition (8) also indicates that there was a series of events of cosmological bodies creation rather than an uncontrolled event.

Case 2:

Equation (10) indicates the possibility that all cosmological bodies were created at the same instance. Equation (9) means that the acceleration rate is different for different galaxies. Creation of galaxies as a result of uncontrolled event is expected to result in large galaxy gain lower

acceleration rate while small galaxy gain high acceleration rate. As receding speed of galaxies increase with distance from earth, mass contained in each galaxy should decrease with distance from earth according to equation (9).

Case 3:

Equation (11) indicates the possibility that galaxies were created in temporal sequence. As receding speed of galaxies increase with distance from earth, mass contained in each galaxy should decrease with distance from earth according to equation (12).

3. Conclusion

The discussion in this paper indicates a very strong possibility that the universe creation was a series of highly creative events rather than an uncontrolled event.

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