

On Problems and Solutions of General Relativity (Commemoration of the 100th Anniversary of General Relativity)

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In commemoration of the 100th anniversary of general relativity, many others would look back on its history and achievements, so I will write mine focusing on the problems of general relativity and their solutions.

Pieces of writing hereunder are the rearrangement of my past idea from thesis [1] [2] and postings on my personal blog [3] and science community by focusing on the theme of problems and solutions of general relativity.

I. Several problems of general relativity

Since its publication [4], general theory of relativity has been numerously challenged but time-tested in the process through numerous experiments (Gravitational time dilation and frequency shift, Precession of apses, Gravitational lensing...). [5] [6]

However, the possibility and demand for revised general relativity is also coming to the fore. This arises from its own problem of general relativity or is required from newly found observations. In my eyes, currently, there are three big problems with respect to general relativity.

1) Problems of integration with quantum mechanics and the case of a very big curvature in space-time [5] [7]

2) The theory includes the existence of singularity, which denies the application of general relativity itself, as a solution for field equation. [5]

3) Rising of the problems of dark energy and dark matter [8–13]

I would investigate these problems in reverse order and propose my ideas to work them out or solutions.

II. Problems of dark energy and dark matter

1. Rising of the problems of dark energy and dark matter

To explain the phenomena currently observed from the universe, we assume the need for something unknown called dark matter and dark energy. [8] [9] However, since its quantity is so great (95% level of total mass in the universe) [14] [15] but not detected from our surroundings, [16–18] opinions are coming forth that general relativity should be revised into other forms as to the outside of the solar system.

While the standard model makes up a whole system with its entirety tested through experiments, dark matter is expected not to belong to this standard model. [19] One of the ways to solve this problem is a revision of general relativity.

Accelerated expansion of the universe suggests the existence of new force similar to anti-gravity, which is a result different from the initial expectation of general relativity. [6]

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