

Combining Quantum Mechanics and General Theory of Relativity together

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0.1 Introduction

Quantum mechanics is a fundamental theory in physics that provides a description of the physical properties of nature at the scale of atoms and subatomic particles. On the other hand, General Relativity says that gravity is caused for space-time curvature. Quantum Mechanics and General Relativity are two different laws of Physics. Quantum Mechanics says us that if we can more accurately measure the momentum of a particle, it is less accurately to measure the position of that particle in space. General Relativity says that space-time curvature is created for mass. So, it is really important to combine Quantum Mechanics and General Theory of Relativity together for solving the Physics of the beginning of the Big Bang.

0.2 Solving

Scientists are trying to combine Quantum Mechanics and General Relativity together. Many theories are coming and rejecting. But we can do an another thing.

0.2.1 Mass

The Uncertainty Principle says us that if we can more accurately measure the momentum of a particle, it is less accurately to measure the position of that particle in space. Now, if we can say uncertainty of a particle is related with the mass of the particle, it doesn't break the law of General Relativity. If the mass of the object increases, the probability of the uncertainty of the object decreases. We know that the particle that was at the beginning of the Big Bang had a huge mass and the particle was very small. So, for the huge amount of mass it created a huge curvature in space-time and for the huge mass there is so little probability to uncertain. In simple language, uncertainty of a particle is related with mass. Greater mass objects

have less probability for uncertainty. That's how, we can combine Quantum Mechanics and General Relativity together without any new theory. Just by adding mass, I think that the Big Bang problem can be solved.