

Plan:



The Big Bang Theory

The Big Bang Theory is the standard cosmological model describing the beginning of development and expansion of the Universe. Initially, the Big Bang theory had a different name - dynamic evolving model. The First time the term "Big Bang" was applied by Fred Hoyle in 1949.

There are many hypotheses about the origin of the big bang:

□ Big Bounce

□ Big Rip

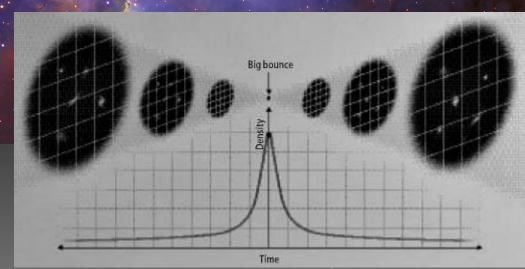
☐ Big Crunch

Big Bounce

From the point of view of the hypothesis about the big bounce, the Big Bang was not the beginning of our universe. Willem de Sitter, Carl Friedrich von Weizsacker, George Gamow and George McVittie claimed that the universe could be formed as a result of the rapid compression, managed by complex effects of quantum gravity that spawned the explosion.

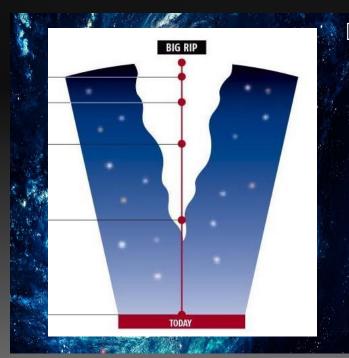


In other words, the universe is eternal. It imploded, reached the maximum allowable density (at the bounce), and blew apart again.



Big Rip

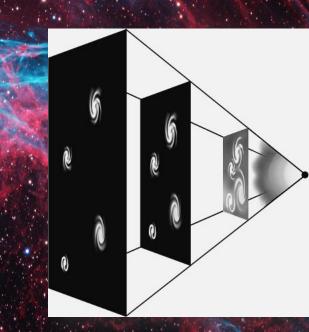
The hypothesis of the Big Rip says - while the rate of one part of the universe increases, the other part decreases. In this case, the end of the universe will come in 22 billion Years.



- Billion years before the Big Rip, clusters of galaxies will disintegrate.
 - About 60 million years before the Big Rip, gravity will be too weak to hold the galaxies.
 - About 3 months before the Big Rip, the Solar system will be gravitationally unbound.
 - ☐ 30 minutes before the Big Rip, will be the Earth destruction.
 - ☐ For a split second before the Big Rip, atoms will be destroyed.

Big Crunch

The Big Crunch is one possible scenario for the ultimate fate of the universe, in which the metric expansion of space eventually reverses and the universe recollapses leaving behind a black hole.



Theory and Religion

The Big Bang theory does not contradict the Catholic conception of the creation of the world. In Orthodoxy, there is also a positive attitude toward this theory. Some Muslims point out that the Big Bang mentions in the Koran. According to Buddhist doctrine, the world does not have the beginning or end.



