

Spacetime Being Replaced by the Four States of Space

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This abstract will propose replacing spacetime with a new theory of space involving four states of space as depicted in the below matrix: Four States of Space. Just as spacetime advanced our understanding of space and time, the four states of space provide a simpler theory of reality where only space is needed because time is conceived as empty space in motion. The Four States of Space theory is a more parsimonious theory as it relates to the fundamental building blocks of reality. And it is a direct outgrowth of the Spatial Acquisition Device.

Let's walk through the Four States of Space matrix in attempting to build this theory. The four states of space are the following: Filled (Mass), Empty, Moving, and Stationary. Filled space is all objects, such as stars, planets, your desk, cars, houses, etc. Empty space is the expanding universe where objects are not present. It is not truly empty, space is never totally empty but for arguments sake, it is empty in comparison to filled space. Space is moving or it is stationary. It was always thought that mass moved through empty space until it was discovered that the universe is expanding which means empty space is moving constantly. The bottom line is space is dynamic, not a backdrop that reality is painted on.

4 States of Space	Filled	Empty
Moving	Gravity	Time
Stationary	Black Hole	Singularity

Now let's turn our attention to the interactions of the four states and what these interactions mean. When filled space (mass) is moving gravity comes into play. It is influenced by the size of the mass, its motion and its effect on empty space. It's that delicate balance between how it moves and how empty space lets it move. Empty space when it is moving, our expanding universe, is time. Time, in and of itself, is an illusion, what is really passing is empty space. No two instances are the same because empty space has expanded, and we find ourselves at a different place in the expanding universe. When filled space (mass) has reached a stationary stage it is a black hole because gravity has taken over and under its own weight has collapsed into a black hole. When empty space is stationary that is the singularity within a black hole in which time (space in motion) no longer exists. Space gets turned on its side and is no longer recognizable. This is when the quantum comes into play in understanding a singularity.