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## **Spacetime and Geometry**

In physics, spacetime is any mathematical model which fuses the

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three dimensions of space and the one dimension of time into a single four-dimensional manifold. Spacetime diagrams can be used to visualize relativistic effects, such as why different observers perceive where and when events occur differently.. Until the 20th century, it was assumed that the 3-dimensional geometry of the universe

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The Minkowski diagram, also known as a spacetime diagram, was developed in 1908 by Hermann Minkowski and provides an illustration of the properties of space and time in the special theory of relativity. It allows a qualitative



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understanding of the corresponding phenomena like time dilation and length contraction without mathematical equations.

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An individual point in spacetime is called an event. The path of a particle is a curve through spacetime, a

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parameterized one-dimensional set of events, called the worldline. Such a description applies equally to SR and Newtonian mechanics.

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