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If two Lorentz frames x and x' have the same coordinates at $(x, y, z, t) = (0, 0, 0, 0)$, and if the x' -frame is moving in the x -direction with a speed of v , then the

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x-coordinates of
an event are given
by. $x' = x - vt$
 $1 - v^2/c^2$; $y' = y$;
 $z' = z$; $t' = t -$
 vx/c^2 .

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Chapter 1:

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The mathematics of general relativity are complex. In Newton's theories of motion, an object's length and the rate at which time passes remain constant while the object accelerates, meaning that many

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Newtonian

mechanics may be solved by algebra

alone. In relativity,

however, an

object's length and

the rate at which

time passes both

change appreciably

as the object's

speed approaches

the speed of light,

meaning that more

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variables and more
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An ...

Differential geometry is the language in which Albert Einstein's general theory of relativity is expressed.

According to the theory, the universe is a smooth manifold equipped with a

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pseudo-Geometry And

Riemannian metric,

which describes

the curvature of

spacetime.

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will use examples from mechanics, quantum theory, electromagnetism, general relativity and gauge theory to illustrate these ideas and their application in physics. Manifolds

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General Relativity.

This is a course on general relativity, given to Part III (i.e. masters level)

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with Differential

Geometry as the

tool. How was

Einstein led to

make a contact

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Geometry for his

theory of General

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suggested him to
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