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interpret them): ( $t' = t - vx/c^2$ ,  $x' =$

$(x - vt)$  where  $c$  represents the speed of  
light (about 300,000 kilometers per second)

and  $\gamma = 1/\sqrt{1 - v^2/c^2}$ . The special theory  
of relativity, developed by Einstein in 1905,

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boils down to analyzing the consequences of these transformations.

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A researcher in optical networking technologies, Gannett has shown that the Lorentz transformations and velocity addition law can be derived without

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assuming the constancy of the speed of light,...

~~Relativity Derived Without Calculus—  
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General Relativity, at its core, is a mathematical model that describes the relationship between events in space-time;

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the basic finding of the theory is that the relationship between events in the same as the relationship between points on a manifold with curvature, and the geometry of that manifold is determined by sources of energy-momentum and their distribution in space-time.

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~~The Maths of General Relativity – Markus  
Hanke~~

First general relativity is typically taught at a 4th year undergraduate level or sometimes even a graduate level, obviously this presumes a good undergraduate training in mathematics and physics. Personally, I'm more of the opinion that one should go and



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learn other physics before tackling general relativity.

~~What are the prerequisites to studying  
general relativity?~~

ometry and general relativity require  
mathematical entities of still higher rank.  
The tools of vector analysis are simply

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incapable of allowing one to write down the governing laws in an invariant form, and one has to adopt a different mathematics from the vector analysis taught in the freshman and sophomore years. Tensor calculus is that ...

~~Tensor Calculus - SMU~~

*Page 26/36*

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Definition and basic properties. General relativity is a metric theory of gravitation. At its core are Einstein's equations, which describe the relation between the geometry of a four-dimensional pseudo-Riemannian manifold representing spacetime, and the energy – momentum contained in that spacetime.

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31 2 Foundations of special relativity; The

Lorentz transformation 33 2.1 On the nature

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concise ...~~

In general relativity, Regge calculus is a formalism for producing simplicial approximations of spacetimes that are solutions to the Einstein field equation. The

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calculus was introduced by the Italian theoretician Tullio Regge in 1961. Overview. The starting point for Regge's work ...

~~Regge calculus - Wikipedia~~

Manifolds Generally speaking, a manifold is a space that with curvature and complicated topology that locally looks like  $\mathbb{R}^n$ .

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Examples:  $R^n$  itself.  $R$  is a line and  $R^2$  a plane. The  $n$ -sphere,  $S_n$ ; that is, the locus of all points some fixed distance from the origin in  $R^{n+1}$ .  $S$  is a circle and  $S^2$  sphere. The  $n$ -torus  $T^n$ .  $T^2$  is the surface of a doughnut. A Riemann surface of genus  $g$ .

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