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Physics - Special Relativity (34 of 43) Relativistic Sample Problem - Length **WSU: Special Relativity with Brian Greene Tensors Explained Intuitively: Covariant, Contravariant, Rank The Nature of Space and Time | Brian Greene**

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Albert Einstein's Theory of Relativity

Einstein's Field Equations of General Relativity Explained

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Relativity Solution to (a)

The most general form

of a 2-form F_{ab} in

Schwarzschild

spacetime is $F_{ab} =$

$A(e_0)_a(e_1)_b + B(e_0)_a$

$(e_2)_b + C(e_0)_a$

$(e_3)_b + D(e_1)_a$

$(e_2)_b + E(e_1)_a$

$(e_3)_b + G(e_2)_a(e_3)_b,$

where A, B, C, D, E and G are functions of (t, r, θ, ϕ) . [braune, L.]

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Daniel J. Cross

November 17, 2008

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a) Show that the

overlap functions $f_{\pm i}(f$

$\pm j) - 1$ are C^∞ , thus

completing the

demonstration given in

section 2.1 that S^2 is a

manifold. b) Show by

explicit construction

that two coordinate

systems (as opposed to

the six used in the

text) suffice

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 arbitrarily specified
 function $f(z)$. For
 instance, choose $g_{tt} =$
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 $-\exp(-2z)dt^2 + \exp(+2z)$
 dz^2 . $B(z)$
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concept of special relativity, otherwise general relativity will be hard to understand. Structure of the thesis This thesis has been written with the goal of being accessible to people with ... Some Exact Solutions in General Relativity In a three-dimensional space, $(x; y; z) = (r; \theta; \phi)$, where $0 < r < +\infty$, $0 \leq \theta < 2\pi$: Solutions. $x = r \cos \theta$; $y = r \sin \theta$; $z = r \cos \phi$: The following questions must be answered in all three cases: (a) Find the subdomain covered by the new coordinates. Hint: Consider e.g. the range of ϕ at constant value of θ . Problem sets - General Relativity Homework Problems . 9. General Relativity in a Nutshell . 11. 2. VIEW OF SPECIAL RELATIVITY R 13 Concept Summary .

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 you were on a
 spaceship travelling at
 0.50c away from a star
 what speed would the

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 speed of light 3×10^8 ...
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 facing any introductory
 treatment of general
 relativity is the level of
 mathematical rigor at
 which to operate.
 There is no uniquely
 proper solution, as
 different students will
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then a useful choice is $ds^2 =$

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