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General Relativity Is A Beautiful Scheme For Describing The Gravitational field And The Equations It Obeys. Nowadays This Theory Is Often Used As A Prototype For Other, More Intricate Constructions To Describe Forces Between Elementary Particles Or Other Branches Of Fundamental Physics. This Is Why In An Feb 23th, 2024

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 2 2 2 Now, We Calculate The Difference Between The Paths Dx And Dx' Of
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A. Gauge Transformations; Gauge-invariant Variables In At Spacetime (or In A

Locally Inertial Coordinate System) Maxwell's Equations Are $J = \partial_\mu F^{\mu\nu} = \partial_\mu (\partial^\mu A^\nu - \partial^\nu A^\mu) = \partial^\mu \partial_\mu A^\nu - \partial^\mu \partial_\nu A^\mu$; (1) Where A Is The 4-vector Potential, Defined By $F = 2\partial[A]$. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A. Mar 4th, 2024

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$U^0 = 1 + Gx$ Where G is A Constant. (a) Please Compute U^1 And V As A Function Of U^0 . Please Leave Your Answer (for This Part) In Terms Of U^0 ; No Need To Expand Out The Relation Explicitly. Sol. We Simply Compute: $U^1 = P^1 + (U^0)^2 = P^1 + 2gx + G^2x^2$ And Thus: $V = U^1 U^0 = P^1 + 2gx + G^2x^2$ (b) Calculate $V(x)$ In The Limits Of $x \rightarrow 0$ (to Lowest Non-vanishing ... Mar 23th, 2024

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