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Relativity 1 Newtonian Relativity  $Z$   $S$   $X'$   $Y'$   $Z'$   $S'$   $V$  Consider Tossing A Ball Vertically In A Moving Car  $X$   $X$   $Vt$   $Yz$  ... (You Then Create A Shock Wave, Which Gives Rise To A Sonic Boom. By The Way, This Car Experiment Was Actually Done Recently!) So Honking The Horn Is Not The Same As Tossing A Ball Forward. The Velocity Of The Sound Jan 19th, 2024.

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Introduction To Tensor Calculus For General Relativity The Speed Of Light  $c = 1$ . Greek Indices ( $\mu, \nu$ , Etc., Which Take The Range  $\{0,1,2,3\}$ ) Will Be Used To Represent Components Of Tensors. The Einstein Summation Convention Is

Assumed: Repeated Upper And Lower Indices Are To Be Summed Over Their Ranges, E.g.,  $A_{\mu}B^{\mu} \equiv A^0B^0 + A^1B^1 + A^2B^2 + A^3B^3$ . Four-vectors Will Be Represented With  $\partial_{\alpha} = (\partial_t, \partial_x, \partial_y, \partial_z)$  Now:  $\partial_{\alpha} \partial^{\alpha} = \partial_t^2 - \partial_x^2 - \partial_y^2 - \partial_z^2$  [1, From Which:  $\partial_{\alpha} \partial^{\alpha} = \partial_t^2 - \partial_x^2 - \partial_y^2 - \partial_z^2$ ]

Now, We Calculate The Difference Between The Paths  $Dx$  And  $Dx'$  Of Wavefronts At A Vertical Distance  $Y$  And  $Y+dy$ , At Which

General Relativity Fall 2018 Lecture 11: Linearized ...A. Gauge Transformations; Gauge-invariant Variables In At Spacetime (or In A Locally Inertial Coordinate System) Maxwell's Equations Are  $J = \partial_{\alpha} F^{\alpha\beta} - \partial^{\beta} A^{\alpha} = \partial_{\alpha} \partial^{\alpha} A^{\beta} - \partial^{\beta} \partial_{\alpha} A^{\alpha}$ ; (1) Where  $A$  Is The 4-vector Potential, Defined By  $F = \partial_{\alpha} A_{\beta} - \partial_{\beta} A_{\alpha}$ . A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of  $A$ . Feb 11th, 2024.

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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:  $U_1 = P_1 + (U_0)^2 = P_2 g x + G_2 x^2$  And Thus:  $V = U_1 U_0 = P_2 g x + G_2 x^2 + G x$  (b) Calculate  $V(x)$  In The Limits Of  $x \rightarrow 0$  (to Lowest Non-vanishing ... Feb 16th, 2024

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