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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 Yy Zz ... (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 1th, 2024

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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  $\mu$  = A0B0 + A1B1 + A2B2 + A3B3. Four-vectors Will Be Represented With Apr 12th, 2024

# **CRITICISMS TO THE GENERAL RELATIVITY**

R Y R R Y  $\partial$   $\partial$  =  $\rightarrow$ 0 Now: Y R R C GM Rc GM C Y R R R V Y R Y V  $\partial$   $\partial$  - =  $\partial$   $\partial$   $\partial$  =  $\partial$   $\partial$   $\partial$  =  $\partial$   $\partial$  2 2 2]) 2 ([1, From Which: R C GMR R R R C GM Y R R C GM Y V Y Y 2 3 0 2 0 2 2 2 Now, We Calculate The Difference Between The Paths Dx And Dx' Of Wavefronts At A Vertical Distance Y And Y+dy, At Which Feb 16th, 2024

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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 = @ F @ (@ A @ A) = A @ @ A; @ @; (1) Where A Is The 4-vector Potential, De Ned By F = 2@ [A]. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A. Feb 7th, 2024

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Gauge Transformations; Gauge-invariant Variables In At Spacetime, Maxwell's Equations Are J = @ F @ (@ A @ A) = A @ @ A; @ @; (1) Where A Is The 4-vector Potential, De Ned By F = 2@ [A]. A Priori There Are 4 Degrees Of Freedom In This Theory, The 4 Components Of A. However, We Can Make The Following Gauge Transformations Without ... Apr 12th, 2024

# **PHYSICS 631: General Relativity Sol.**

U0 = 1 + Gx Where Gis A Constant. (a) Please Compute U1 And V As A Function Of U0. Please Leave Your Answer (for This

Part) In Terms Of U0; No Need To Expand Out The Relation Explicitly. Sol. We Simply Compute: U1 = P1 + (U0)2 = P2gx + G2x2 And Thus: V = U1 U0 = P2gx + G2x2 1 + Gx (b) Calculate V(x) In The Limits Of X!0 (to Lowest Non-vanishing ... Mar 10th, 2024

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7 The Perturbative Expansion And Einstein's Law Of Gravity. 31 8 The Action Principle. 35 9 Special Coordinates. 40 10 Electromagnetism. 43 11 The Schwarzschild Solution. 45 12 Mercury And Light Rays In The Schwarzschild Metric. 52 13 Generalizations Of The Schwarzschild Solution. 56 14 The Robertson-Walker Metric. 59 15 Gravitational ... Mar 8th, 2024

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Chapter 3 General Relativity In A Nutshell Asalreadymentionedbefore, a Newtonian description of the universe has only limited Validity, Especially In The Early Universe. Feb 2th, 2024

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