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Each Of Sections V To XII Discuss Some Aspect Of Perturbation Theory, Or Derive Some Useful Relationship. However, Each Section Essentially Stands Alone; I Might Not Actually Discuss Each Of These Sections In Class. I. FIRST ORDER PERTURBATION ANALYSIS
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The Speed Of Light $C = 1$. Greek Indices (μ, ν , 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., $A_{\mu} B^{\mu} \equiv A^0 B_0 + A^1 B_1 + A^2 B_2 + A^3 B_3$. Four-vectors Will Be

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 $\partial = \rightarrow 0$ Now: Y R R C GM Rc GM C Y R R R V Y R Y V $\partial \partial - = \partial \partial \partial \partial = \partial \partial \partial \partial = \partial \partial 2 2$
 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
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 However, We Can Make The Following Gauge Transformations Without ... Jun 4th,
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 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: $U_1 = P_1 + (U_0)^2 = P_2gx + G^2x^2$ And Thus: $V = U_1 - U_0 = P_2gx + G^2x^2 - P_1 - U_0 = P_2gx + G^2x^2 - P_1 - Gx$ (b) Calculate $V(x)$ In The Limits Of $X \rightarrow 0$ (to Lowest Non-vanishing ... Mar 3th, 2024.

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