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CRITICISMS TO THE GENERAL RELATIVITY

$R^{\alpha}_{\beta} R^{\gamma}_{\delta} \partial^{\alpha} \partial^{\beta} = \rightarrow 0$ Now: $Y^{\alpha} R^{\beta}_{\gamma} R^{\delta}_{\epsilon} G^{\mu}_{\nu} R^{\rho}_{\sigma} G^{\tau}_{\lambda} C^{\eta}_{\theta} Y^{\rho} R^{\sigma}_{\tau} R^{\nu}_{\lambda} V^{\mu} R^{\nu}_{\lambda} V^{\rho} \partial^{\alpha} \partial^{\beta} - = \partial^{\alpha} \partial^{\beta} \partial^{\gamma} = \partial^{\alpha} \partial^{\beta} \partial^{\gamma} = \partial^{\alpha} \partial^{\beta} 2^2 2^2] 2 ([1, From Which: R^{\alpha}_{\beta} G^{\mu}_{\nu} R^{\rho}_{\sigma} R^{\tau}_{\lambda} C^{\eta}_{\theta} G^{\mu}_{\nu} Y^{\rho} R^{\sigma}_{\tau} C^{\eta}_{\theta} Y^{\nu} Y^2 3 0 2 0 2 2 2$ Now, We Calculate The Difference Between The Paths Dx And Dx' Of Wavefronts At A Vertical Distance Y And $Y+dy$, At Which Apr 12th, 2024

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PHYSICS 631: General Relativity Sol.

$U_0 = 1 + Gx$ 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: $U_1 = P 1 + (U_0)^2 = P 2gx + G^2x^2$ And Thus: $V = U_1 U_0 = P 2gx + G^2x^2 1 + Gx$ (b) Calculate $V(x)$ In The Limits Of $x \rightarrow 0$ (to Lowest Non-vanishing ... Jan 3th, 2024

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