

Equivaluce priveibel Locally (acceleration = Granity) b Granty - Cunes my speeching 18²- 200 dt² + 21, dx²+20, dxlln + 21,0 drdt $ds^2 = g_{\mu\nu} dn^{\mu} dn^{\nu}$ $M, V \equiv (0, 1, 2, 3)$ 12 vancent lenegth -

geomety and any matrine object. Row to find out Juv for the given mers / Energy distribution. Einein's Field Eque Rmv = f(gur, d gm) R= Fur RMV RMV - 2 2mv R = # Tmv local Egh

Various forms of metric! I) 2D flat specl: Allay

An

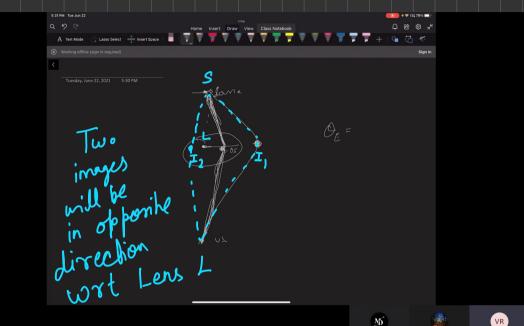
An $d\theta^2 = d\eta^2 + dy^2$ $= g_{11} dx^{2} + g_{22} dy^{2} + g_{12} dx dy + g_{21} dx dy$ (I) (1+1) D Space-tim! (Minkouskia methic)

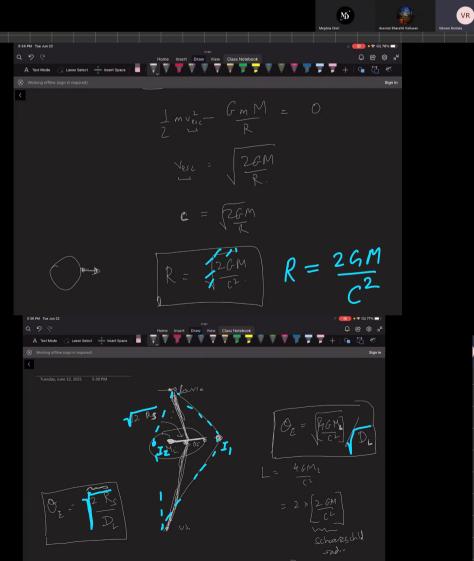
Schwarzschild Metric:

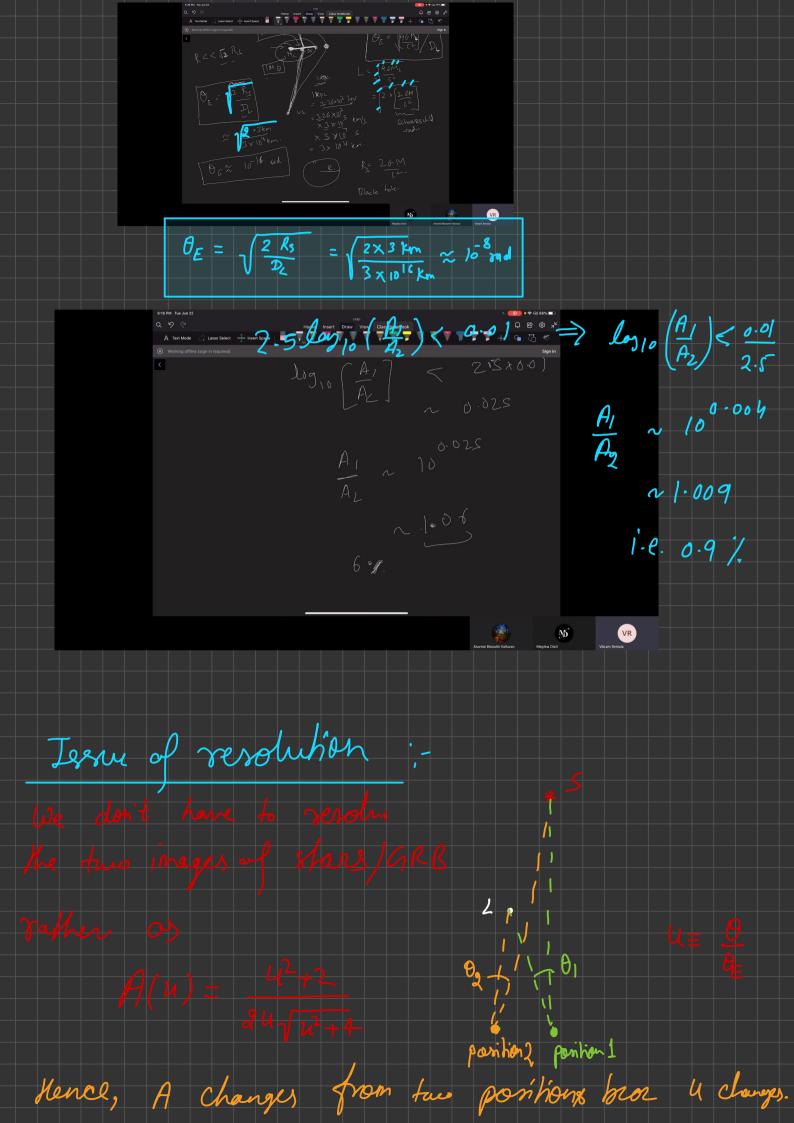
$$f_{\mu\nu}(\overline{x},t)$$
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 $f_{\mu\nu$

 $S = \int d\lambda$ Lagragian Euler Lagrage Egh $\hat{\alpha} = \frac{2}{c} \int \nabla_1 \Phi d\lambda$ -> Shapiro dela dz= dl

=> Last GRB lunny paper discursion Comments.







$$\theta^{2} - \beta \theta - \theta E^{2} = 0$$

$$\tilde{u}^{2} - u \tilde{u} - 1 = 0$$

$$\tilde{u}_{+} = \frac{u}{2} + \sqrt{u^{2} + 4}$$

$$\mu(u) = \frac{1}{2} \left[1 + \frac{u^{2} + 2}{u \sqrt{u^{2} + 4}} \right]$$

$$u_{sp} = \tilde{u}_{+} - \tilde{u}_{-} = \sqrt{u^{2} + 4}$$

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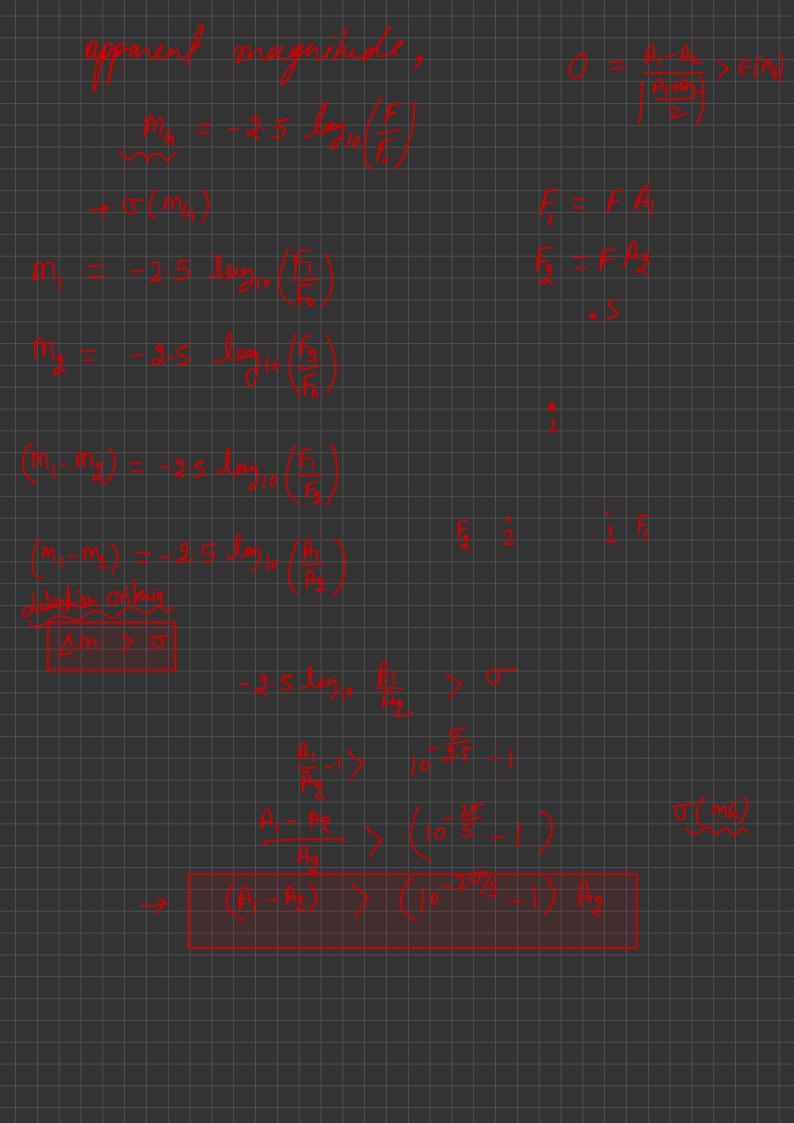
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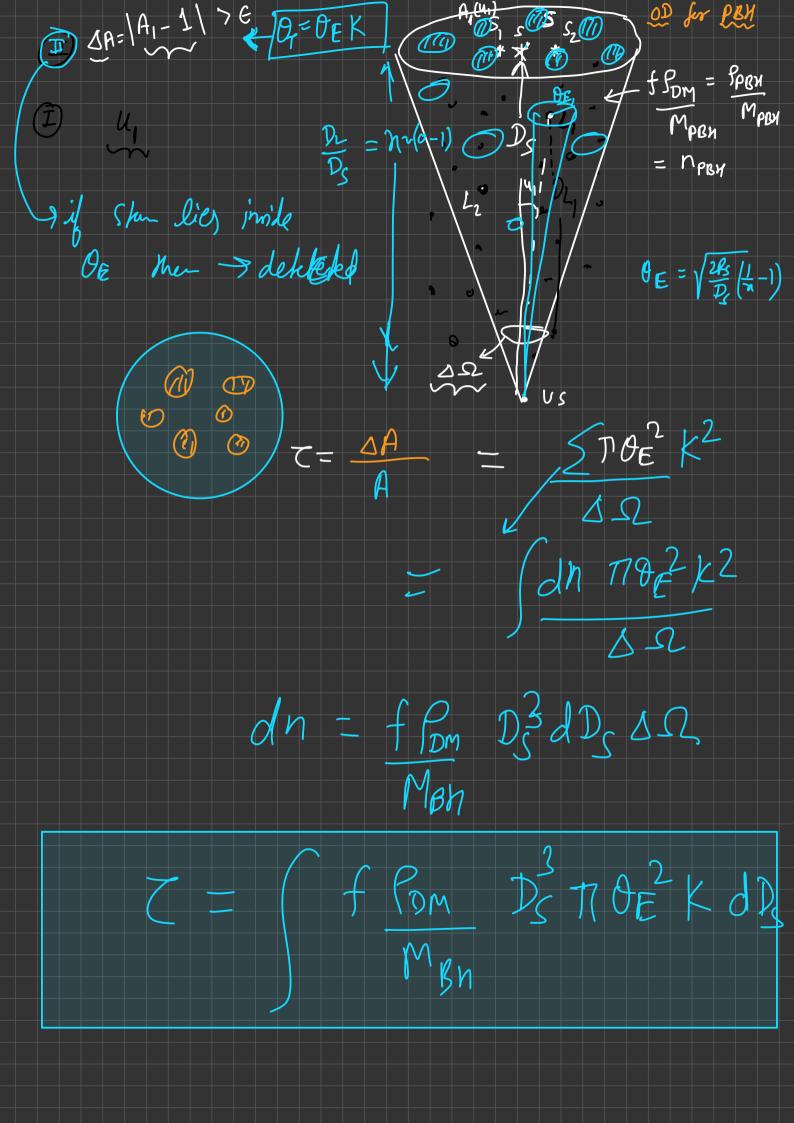
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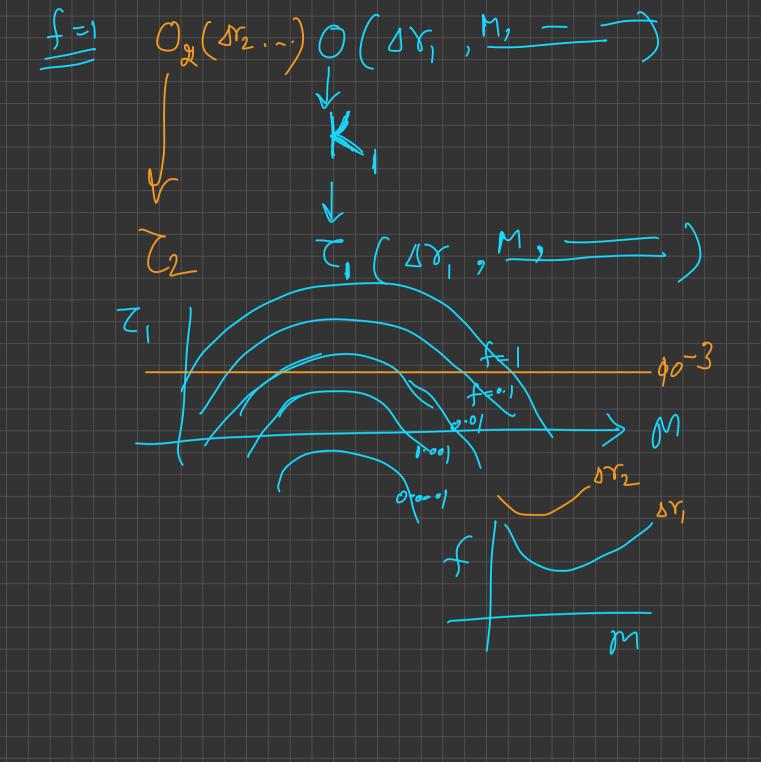
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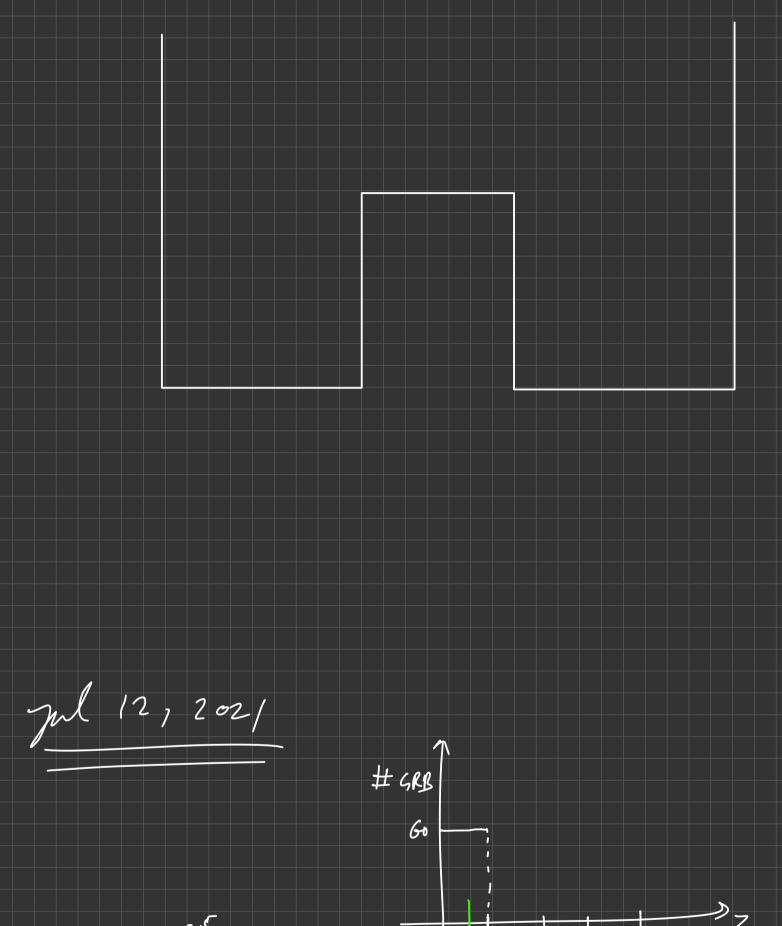


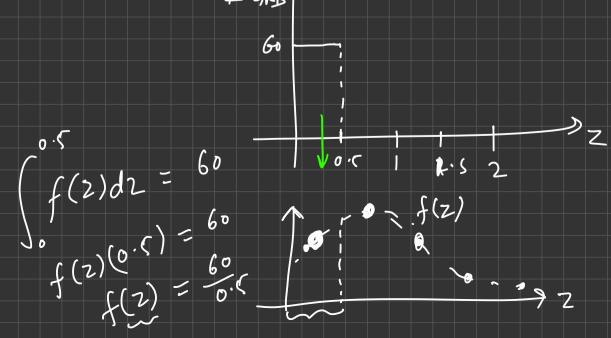
What is Uo?!- $U(\theta) = \frac{\beta(t)}{\theta_E}$ $\mathcal{D}_{SL} = \mathcal{D}_{S} - \mathcal{D}_{L}$ imparet parameles M= B DSL u2 = \$(+)2 + 42 Uo = 4(to) $\hat{Z} = \frac{44 \, \text{fM}}{c^2 \, \text{b}}$ opticul depth!-If for the given spone (mg) what is the probability that it will get lensed and leaving would be detected."

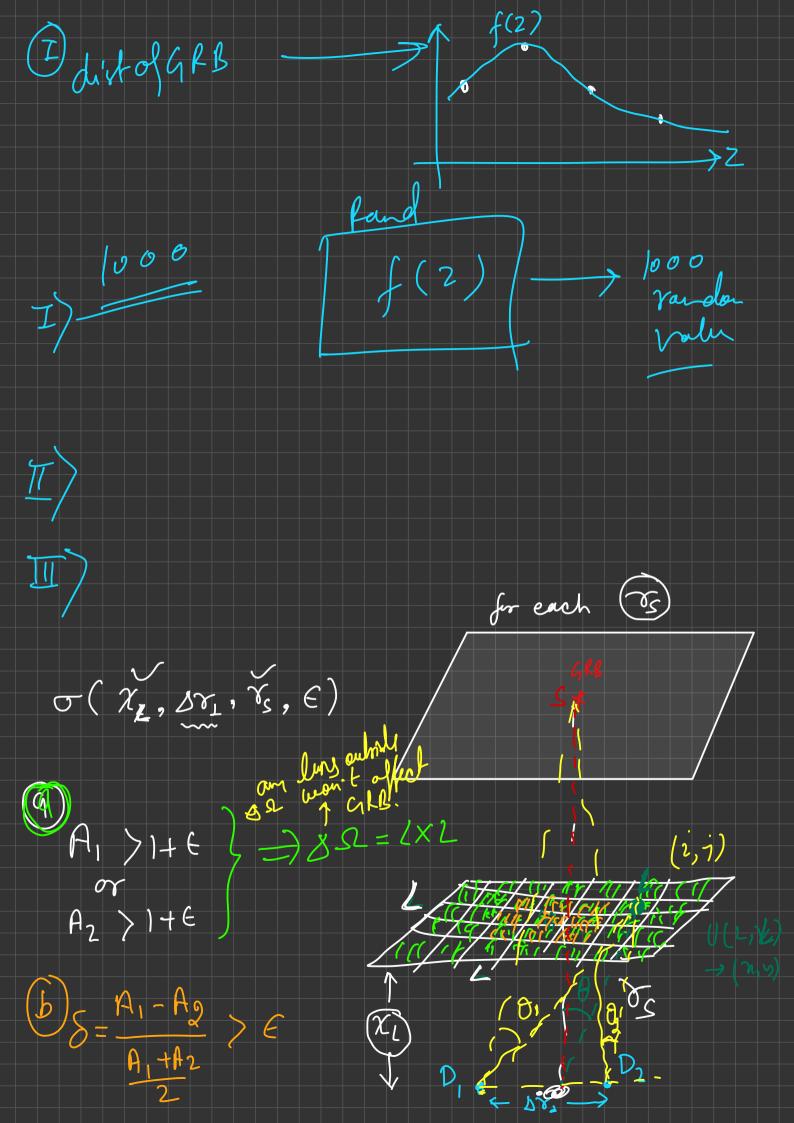




$$R = \frac{D_{1}}{D_{1}} \frac{\partial E}{\partial E} = \frac{D_{2}}{D_{2}} \sqrt{\frac{U_{1}M_{1}}{U_{2}}} \frac{1}{U_{2}} \frac{$$







$$\sigma = 9 \times \left(\frac{2}{80}\right)^2$$

$$\begin{array}{cccc}
\theta_{1}(\theta) & \theta_{2}(\theta) \\
\theta_{1} & \theta_{2}(\theta)
\end{array}$$

$$\begin{array}{cccc}
u_{1} & = & \theta_{1}(i,j) & u_{2} & = \theta_{2}(i,j) \\
\theta_{E} & & \theta_{E}
\end{array}$$

$$\begin{array}{ccccc}
A_{1} & = & u_{1}^{2} + 2 \\
u_{1} & \sqrt{u_{1}^{2} + 4}
\end{array}$$

$$\begin{array}{ccccc}
\downarrow^{T} & (E) & \theta_{E} & = \theta^{T}
\end{array}$$

$$\begin{array}{ccccc}
\Delta \Omega_{1} & = & \mathcal{L}^{2} & = & (2\theta^{T}\chi_{L})^{2}
\end{array}$$

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& = & \theta^{T}\chi_{L}
\end{array}$$

$$\begin{array}{cccccc}
\Delta \Omega_{1} & = & \mathcal{L}^{2} & = & (2\theta^{T}\chi_{L})^{2}
\end{array}$$

$$\begin{array}{ccccccc}
& = & (2u_{1}^{T} & \theta_{E}(m_{1}, x_{L}, x_{S}) & x_{L})^{2}
\end{array}$$

