

$\bar{T} \times S_u \rightarrow \bar{T} \times S_u$
 TR: STABILITÄT
 $\bar{T} \times S_u \rightarrow \bar{T} \times S_u$
 SEITLICH. STIMMIG

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B_{un} SZEÍTHASÍTÓT:

$$\begin{pmatrix} 1 & 0 \\ v_{un} & 1 \end{pmatrix} \cdot dE = T dS - p dv$$

$$\begin{pmatrix} 1 & 0 \\ -v_{un} & 1 \end{pmatrix} \cdot \frac{1}{v_{un}}$$

$$dS = \frac{dE}{T} + \frac{p}{T} dv$$

$$S(E, V)$$

GA. TP. SZABÁLY

- A TEH. RDSZ
- B ST. TEH. RDSZ
- C MEGFIEGYELŐ
- D KOORD. RDSZ

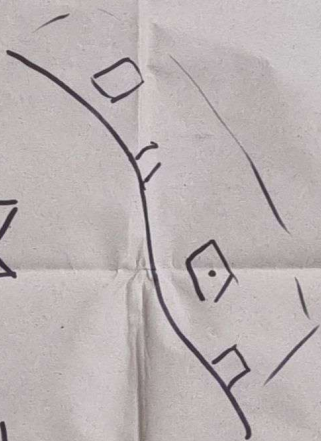
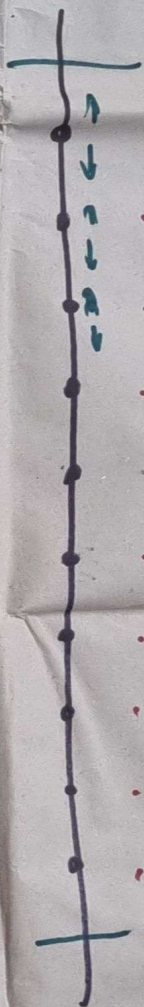
$$T' = T$$

$$T' = \frac{1}{2} T$$

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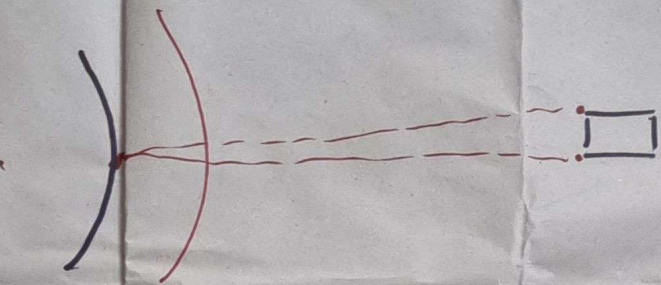
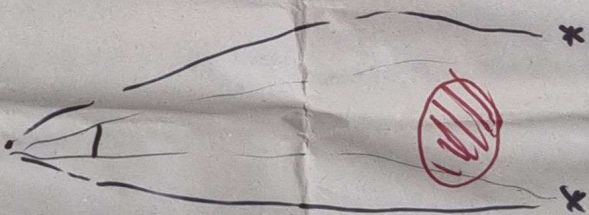
$$\frac{\partial S}{\partial E} = \frac{1}{T(E, V)}$$

$$\frac{S}{C} = \frac{p(E, V)}{T(E, V)}$$



$x \in M$

$T_x(M)$



(M, g)

$Q[x]: T_x(M) \times T_x(M) \rightarrow \mathbb{R}$
 NYIL. I.E. LORENZ

$$H \subset M$$

$$g|_H$$

$$(H, g|_H)$$

$$T_{\dot{x}}(M) \cong T_x(M) \setminus \{0\}$$

$$U: M \rightarrow \mathbb{R}^n$$

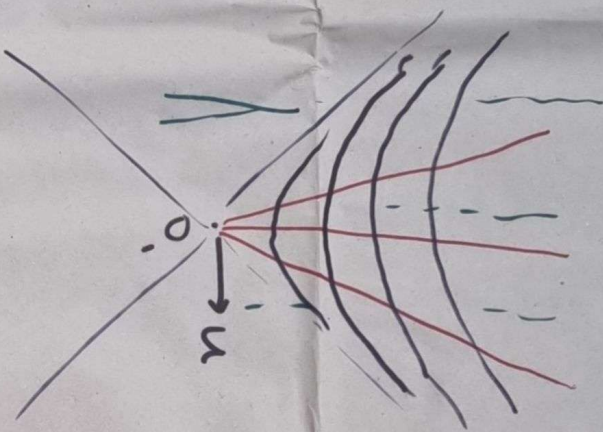
$$x \mapsto U(x)$$

ALL. GYORSULTÁS

$$\ddot{r}(s_1) = B_{\ddot{r}(s_1) \cdot \ddot{r}(s_2)} \ddot{r}(s_2)$$

$$|\ddot{r}| \text{ ALAKJÁ$$

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$d\alpha, d\beta, d\gamma, d\eta$

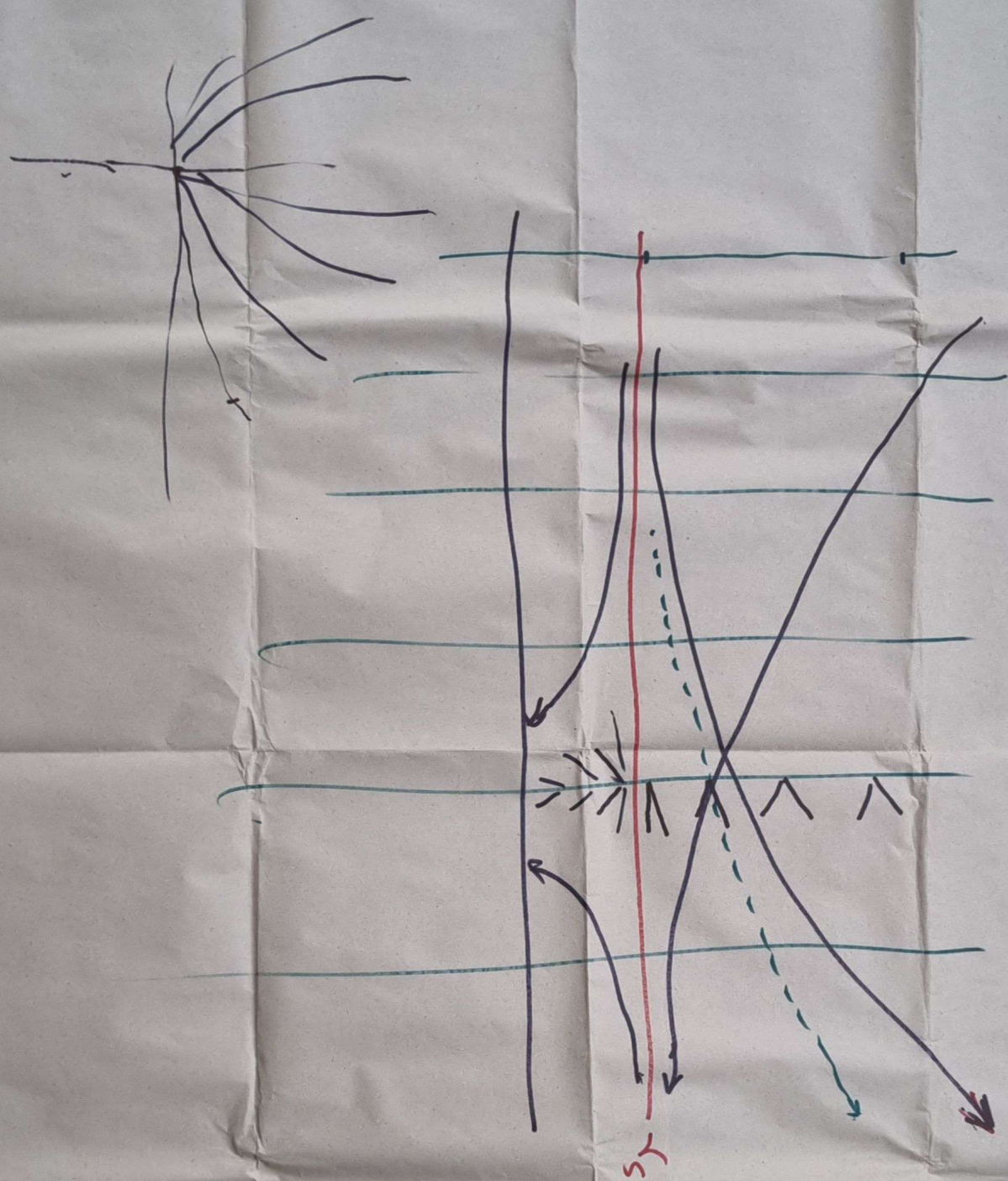
$$dS^2 = (\quad) d\alpha^2 + (\quad)$$

$$dS^2 = - \left\{ \right. d\tau^2 + d\alpha^2 + d\beta^2 + d\gamma^2$$

$$dS^2 = - \left\{ \right. dt^2 + 2 \left\{ \right. dt d\alpha + \frac{\alpha^2}{\alpha^2 + \beta^2} d\alpha^2 + d\alpha^2 + d\beta^2$$

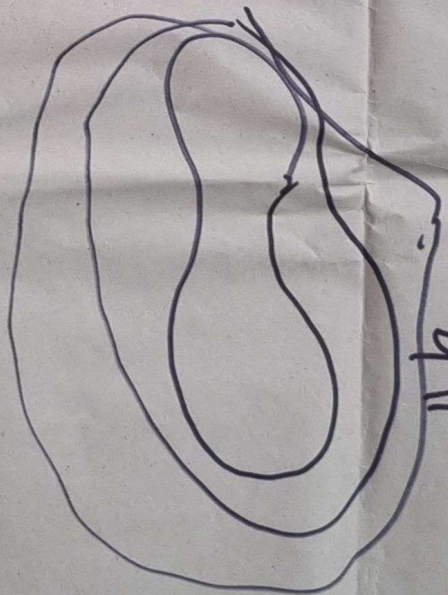
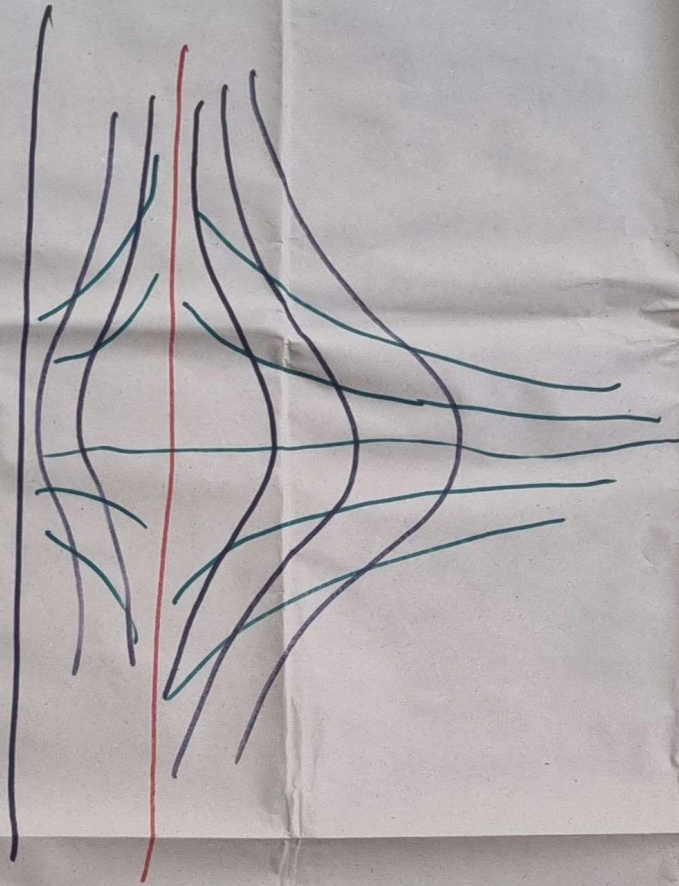
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(L. 1. 2. 1. 4)



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WALD



$$\frac{A}{h_{II}} =: r^2$$

