wy prowadzenie fizy czne:

tronsformacya musi być hnwwa:
oraz odwrawina: X = YX' + YVt'

X = Ax + Bt = yx - Yvt

 $\begin{cases} x' = y(x-vt) \\ x = y(x+vt) \\ x = y(x+vt) \end{cases}$

predkość śwatta musi być stata w kożdym uktadne $\frac{dx}{dt} = \frac{dx'}{dt} = C$ dla promierna śwatta

 $\begin{cases} dx' = \gamma(dx - vdt) = \gamma(dx - \frac{7}{6}dx) = \gamma(1 - \frac{7}{6})dx \\ dx = \gamma(dx' + vdt') = \gamma(dx' + \frac{7}{6}dx') = \gamma(1 + \frac{7}{6})dx' \end{cases}$

 $dy = \chi(1+\frac{2}{c}) \chi(1-\frac{2}{c}) dx \Rightarrow \chi^2(1-(\frac{2}{c})^2) = 1 \Rightarrow \chi = 1/\sqrt{1-(\frac{2}{c})^2}$

 $\begin{cases} \chi' = \gamma(x - v \cdot t) \\ t' = \gamma(t - \frac{v}{c^2}x) \end{cases}$

zle jednostki

mierzmy cras w metrach: ct i predkość $\frac{dx}{d(ct)} = \frac{V}{C} = \beta$

 $\begin{cases} \chi' = \gamma (x - \beta ct) \\ ct' = \gamma (ct - \beta x) \end{cases}$

Ladnie i symetrycznie