Exercise A.1.2. Eg (A.13) for an x-boost in matrix form can be expressed

Find the universe matrix (I pi) and the welacity of K' relative to K.

Ans: $(-N_{\mu'}) = \begin{pmatrix} x & x_{\mu} & 0 & 0 \\ x_{\mu} & y & 0 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ $(-N_{\mu'}) = \begin{pmatrix} x & x_{\mu} & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ $(-N_{\mu'}) = \begin{pmatrix} x & x_{\mu} & x_{\mu} & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ $(-N_{\mu'}) = \begin{pmatrix} x & x_{\mu} & x_{\mu} & x_{\mu} & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \end{pmatrix}$

 $-\Lambda_{3}^{\prime} = \frac{1}{6}(3^{2}N - \gamma^{2}N) = 0$ similarly for the rest

clearly of K' -> K w/ relocity N then K -> K' with relocity -N.

More formally

So Sct= & ct'+ = xx { holds for all x and t.

The origin of K has x=0 at +