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$$T = \left\{ \begin{pmatrix} a & b \\ 0 & d \end{pmatrix}, \begin{pmatrix} a \\ b \\ d \end{pmatrix} \in \mathbb{R}^3 \right\}$$

$$T^\perp = \left\{ \begin{pmatrix} 0 & 0 \\ c & 0 \end{pmatrix}, c \in \mathbb{R} \right\}$$

$$= \text{Vect} \left(\begin{pmatrix} 0 & 0 \\ 1 & 0 \end{pmatrix} \right)$$

$$P_{T^\perp}^\perp \left(\begin{pmatrix} 1 & 0 \\ -1 & 2 \end{pmatrix} \right) = \left\langle \begin{pmatrix} 1 & 0 \\ -1 & 2 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 1 & 0 \end{pmatrix} \right\rangle \begin{pmatrix} 0 & 0 \\ 1 & 0 \end{pmatrix}$$

$$= \begin{pmatrix} 0 & 0 \\ -1 & 0 \end{pmatrix}$$

On prend le nome j'sp q'ooi