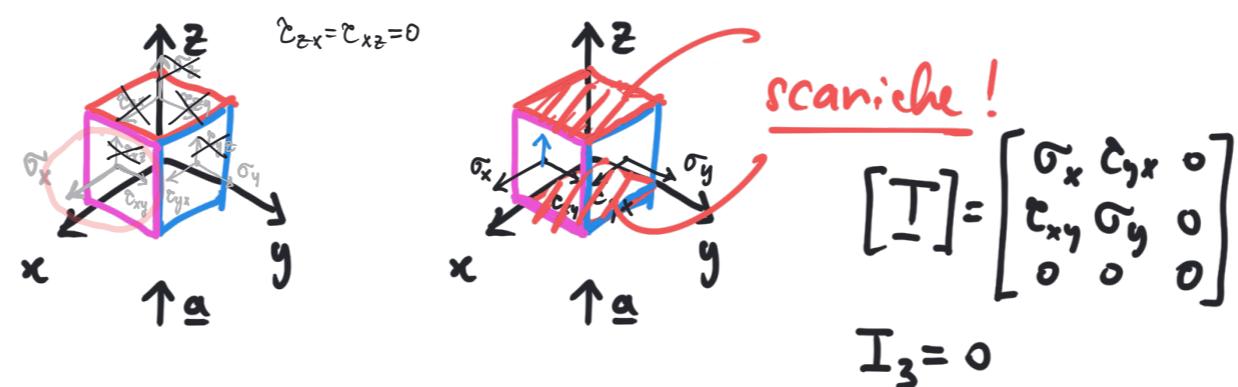
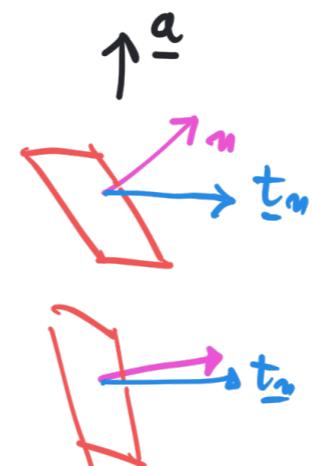


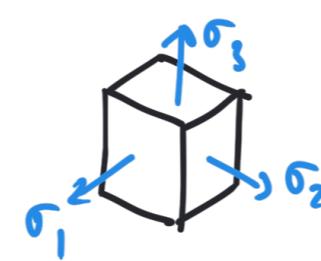
Stati di tensione piani.

Def:  $\exists \underline{\alpha}$  (versore) tale che  $\uparrow^{\underline{\alpha}}$

$$\underline{t}_m \cdot \underline{\alpha} = 0 \quad \text{per ogni } \underline{m}$$



viceversa:  $\alpha \cdot I_3 = 0$



Stati di tensione piani.

Def:  $\exists \underline{a}$  (versore) tale che

$$\hat{\underline{T}}_m \cdot \underline{a} = 0 \quad \text{per ogni } \underline{m}$$



$$\underline{T}_m \cdot \underline{a} = 0 \quad "$$

$$\underline{T} = \underline{T}^T$$

$$\underline{m} \cdot \underline{T} \underline{a} = 0$$

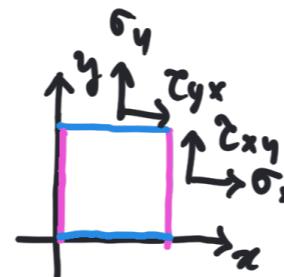
"

$$\Rightarrow \underline{T} \underline{a} = 0$$

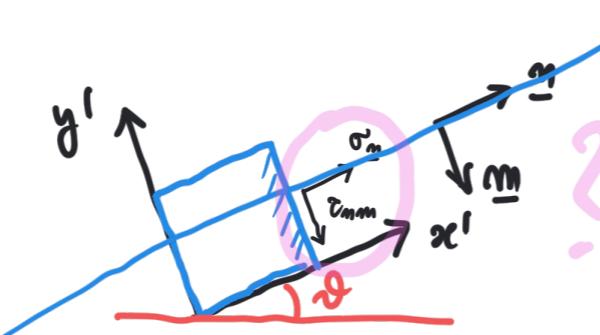
giacitura scar

### Costituzione di Mohr

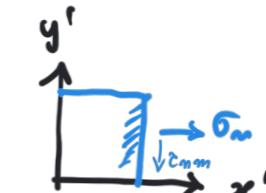
$$[\underline{\underline{T}}] = \begin{bmatrix} \sigma_x & \tau_{yx} & 0 \\ \tau_{xy} & \sigma_y & 0 \\ 0 & 0 & 0 \end{bmatrix}$$



$$(\tau_{yx} = \tau_{xy})$$

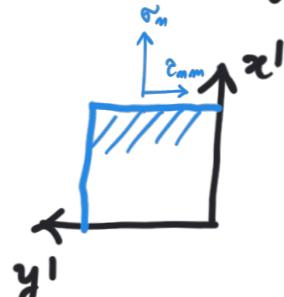


$$\vartheta = 0$$

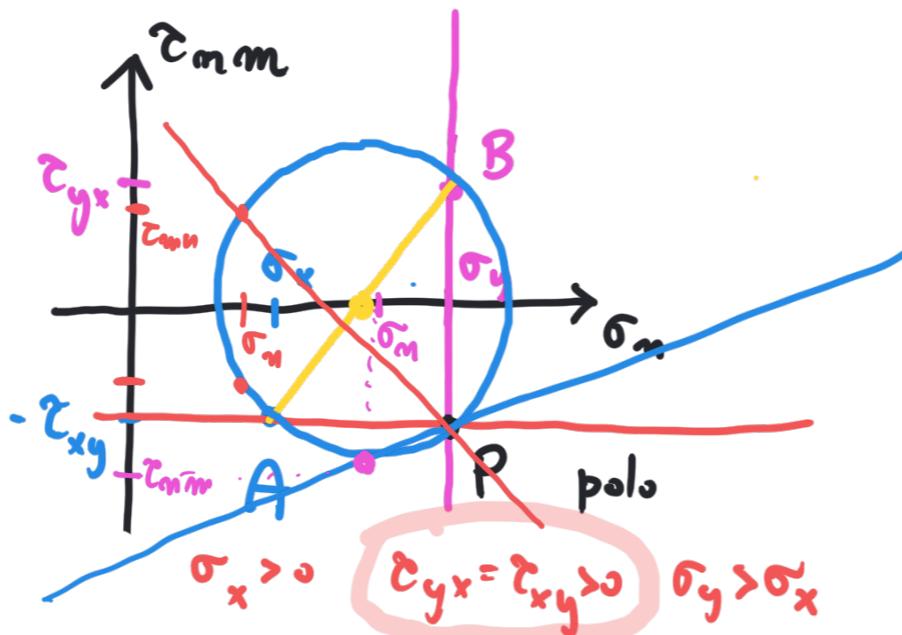


$$\sigma_m = r$$

$$\tau_{mm} = -\tau_{xy}$$



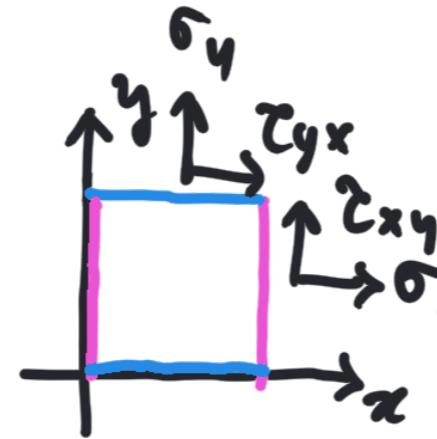
$$\vartheta = \frac{\pi}{2}$$



dopo incis. diam max

# Costituzione di Mohr

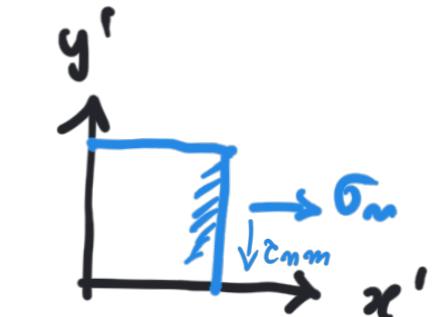
$$[\underline{\underline{T}}] = \begin{bmatrix} \sigma_x & \tau_{xy} & 0 \\ \tau_{xy} & \sigma_y & 0 \\ 0 & 0 & 0 \end{bmatrix}$$



$$(\tau_{yx} = \tau_{xy})$$

Appl. : Tensioni e dirz. princ.

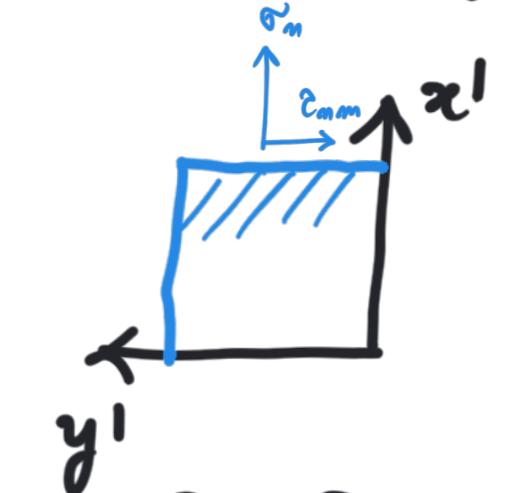
$$\vartheta = 0$$



$$\sigma_m = \sigma_x$$

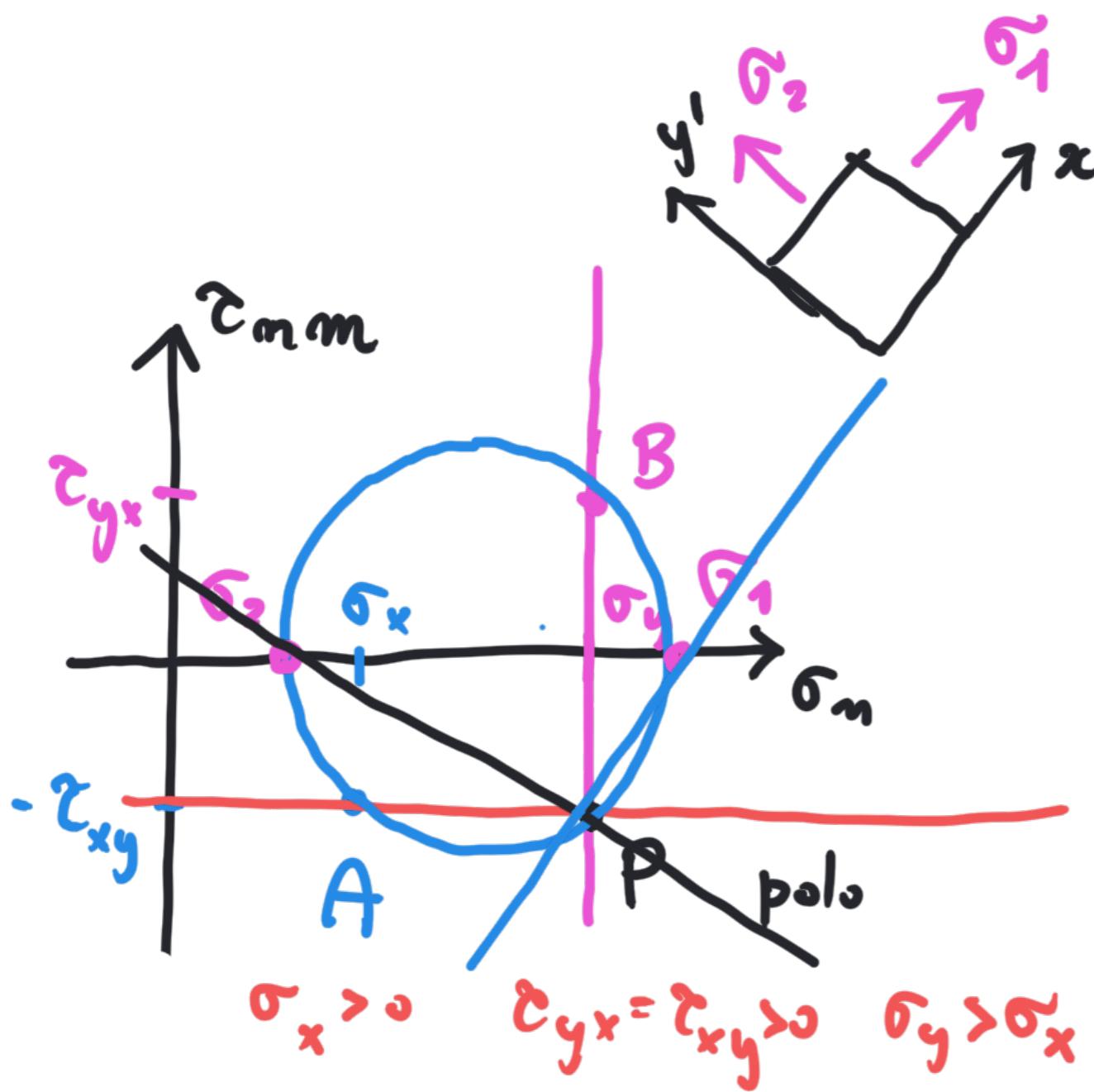
$$\tau_{mm} = -\tau_{xy}$$

$$\vartheta = \frac{\pi}{2}$$



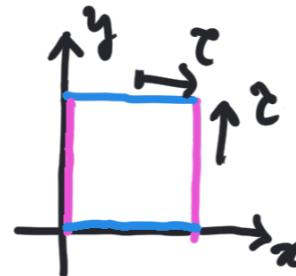
$$\sigma_m = \sigma_y$$

$$\tau_{mm} = \tau_{yx}$$

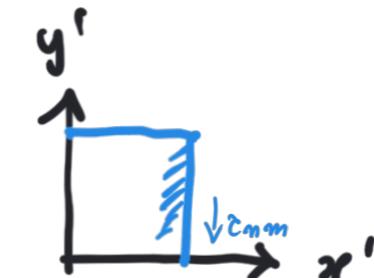


Esempio: taglio buco

$$[T] = \begin{bmatrix} 0 & c & 0 \\ c & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

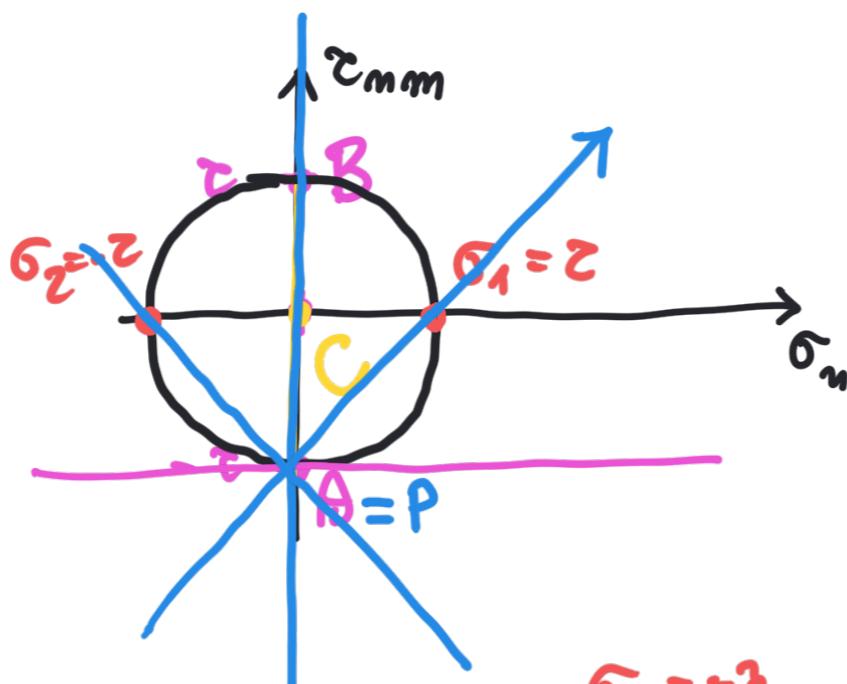


$$\vartheta = 0$$

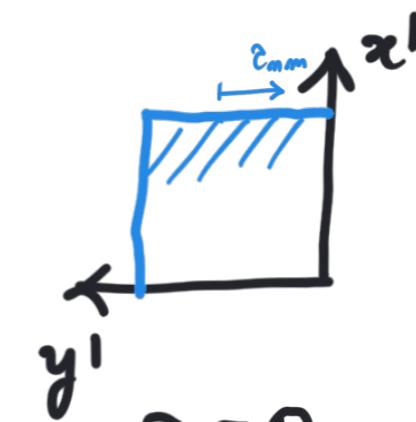
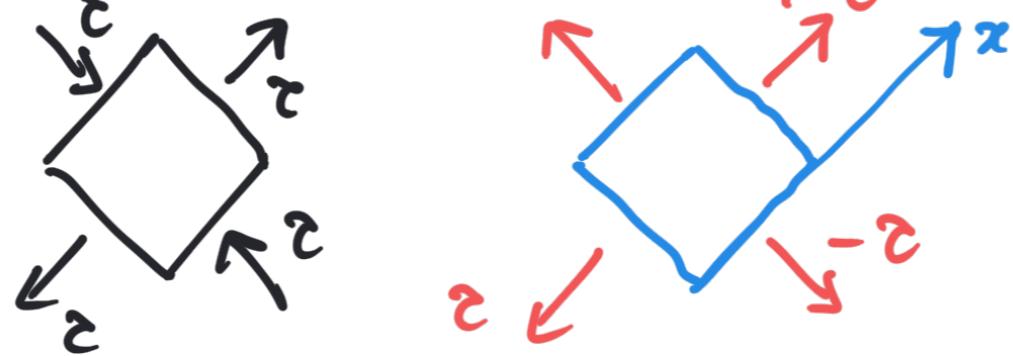


$$\sigma_n = 0$$

$$c_{mm} = -c$$



$$\vartheta = \frac{\pi}{2}$$



$$\sigma_n = 0$$

$$c_{mm} = c$$

### STATO UNIASSIALE

$$[\underline{T}] = \begin{bmatrix} \alpha & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$\sigma^2 \leftarrow \square \rightarrow \alpha$$

