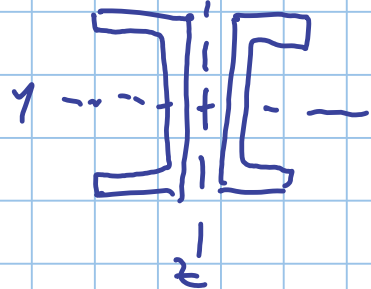
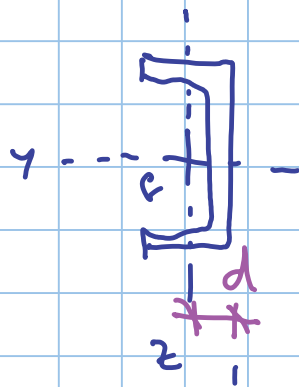
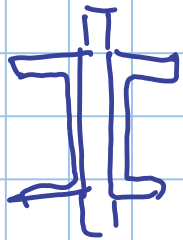


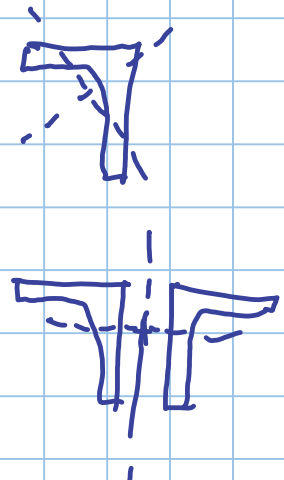
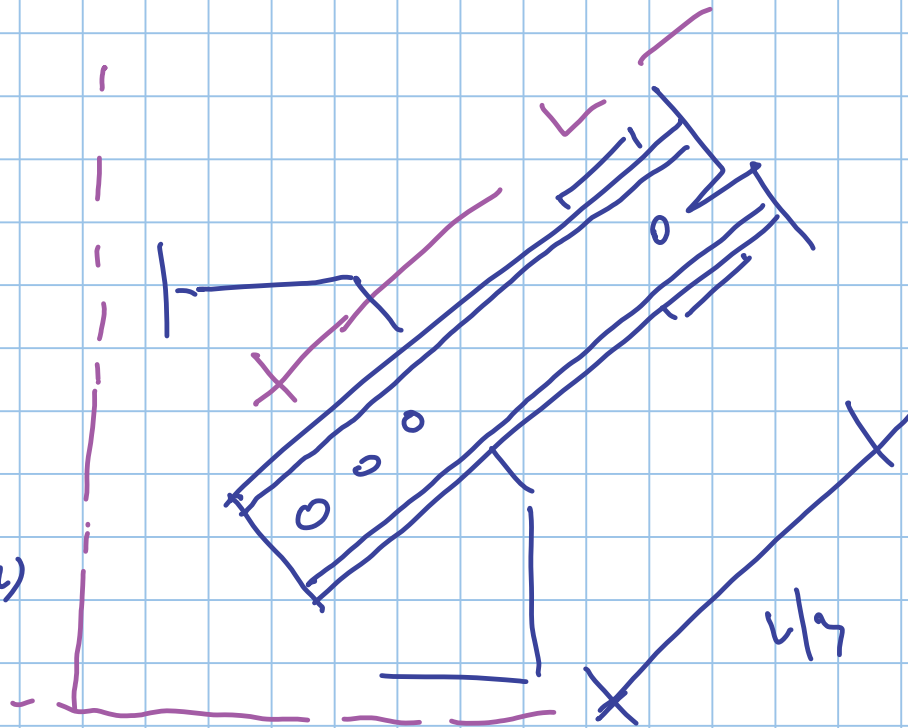
Verifica a compressione di asta composite



$$i_{y(2)} < i_{y(1)}$$

$$i_{y(2)} \geq i_{y(1)}$$

$$i_{z(2)} > i_{z(1)}$$



$$i_{z(2)} = \sqrt{i_{z(1)}^2 + d^2}$$

$$I_{z(2)} = 2 \left[I_{z(1)} + A_{(1)} d^2 \right]$$

$$r \sim \sqrt{I/A} \sim u$$

$$\lambda_{(1)} = \frac{L/3}{i_{z(1)}}$$

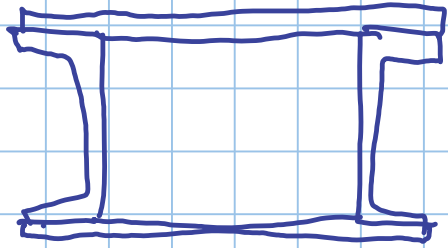
$$\lambda_{(2)} = \frac{L}{i_{z(2)}}$$

$$\lambda_{eq} = \sqrt{\lambda_{(1)}^2 + \lambda_{(2)}^2}$$

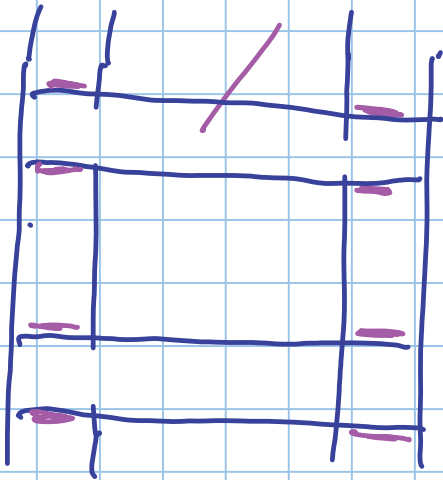
profil singolo
collegato all'altro $\approx \frac{L}{3}$

2 profili collegati in continuo

asta composta
2 profili collegati $\approx \frac{L}{3}$



CALASTRELLI

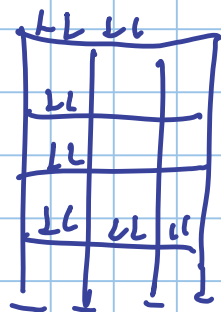


INSTABILITA'

tutti i casi

- flessionale (Euler) lateral buckling $\Delta v \propto N$
- torsionale (profilo a croce +) " RARA "
- fless-torsionale lateral torsional buckling $\Delta v \propto M_y$

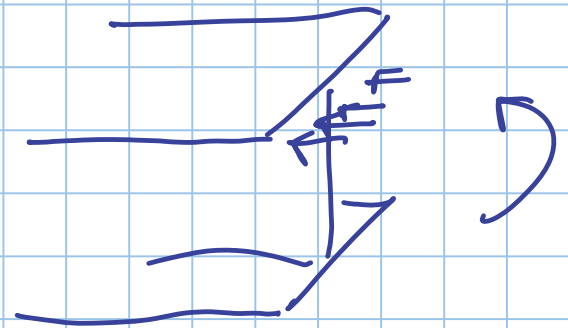
dell'intersezione



talora non convergono

instabilità globale

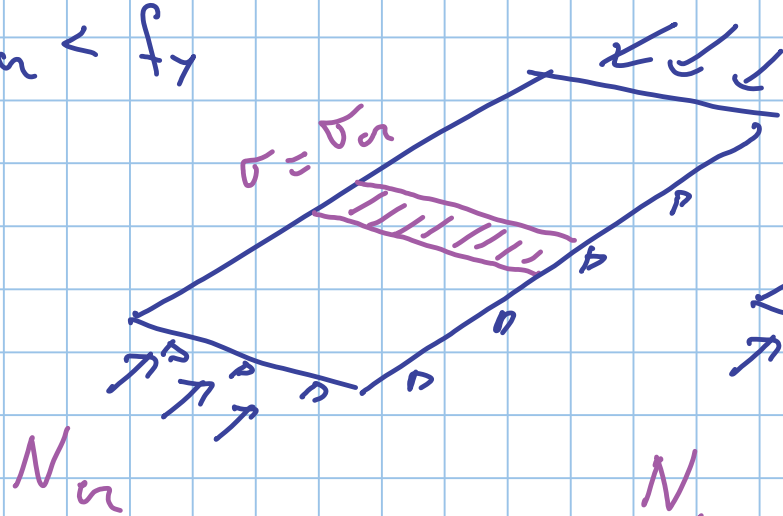
instabilità delle parti di un'asta
come fatto locale



instabilità locale

LASTRA SNELLA

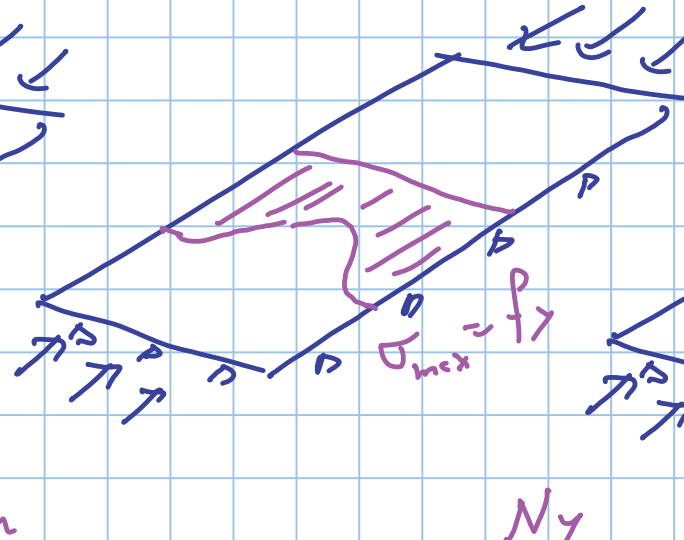
$$\sigma_n < f_y$$



$$N_{cz} = A \sigma_n$$

$$N_n = \int \sigma \, dA$$

$$N_{cz} \leq N_n \leq N_y$$



$$N_y$$

(senza instabilità)

$$N_y = A f_y$$

