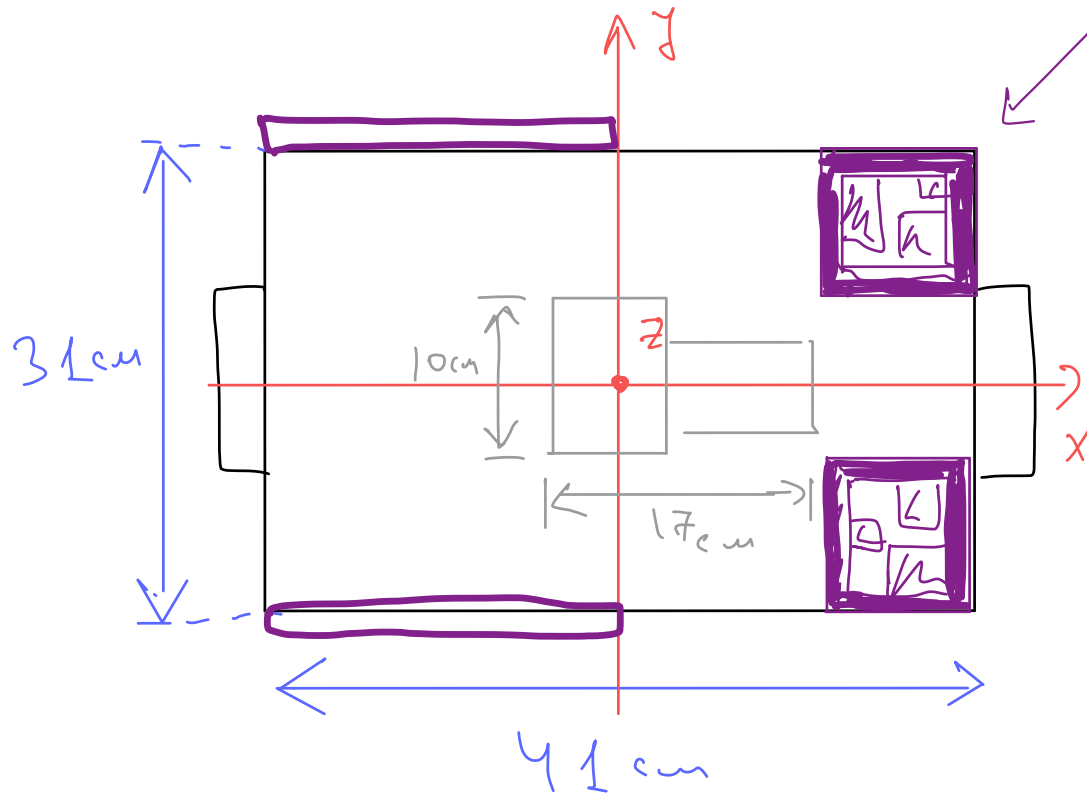
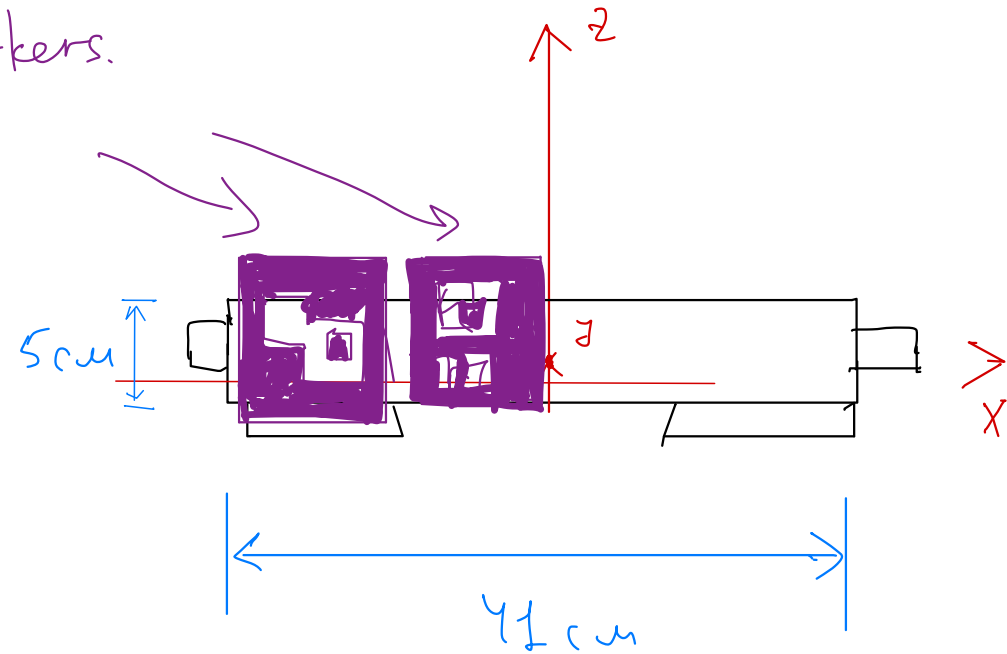


Tray

Top View



Side View



Entire board is viewed as a Single Aruco Board.

$$AB1 = AB1$$

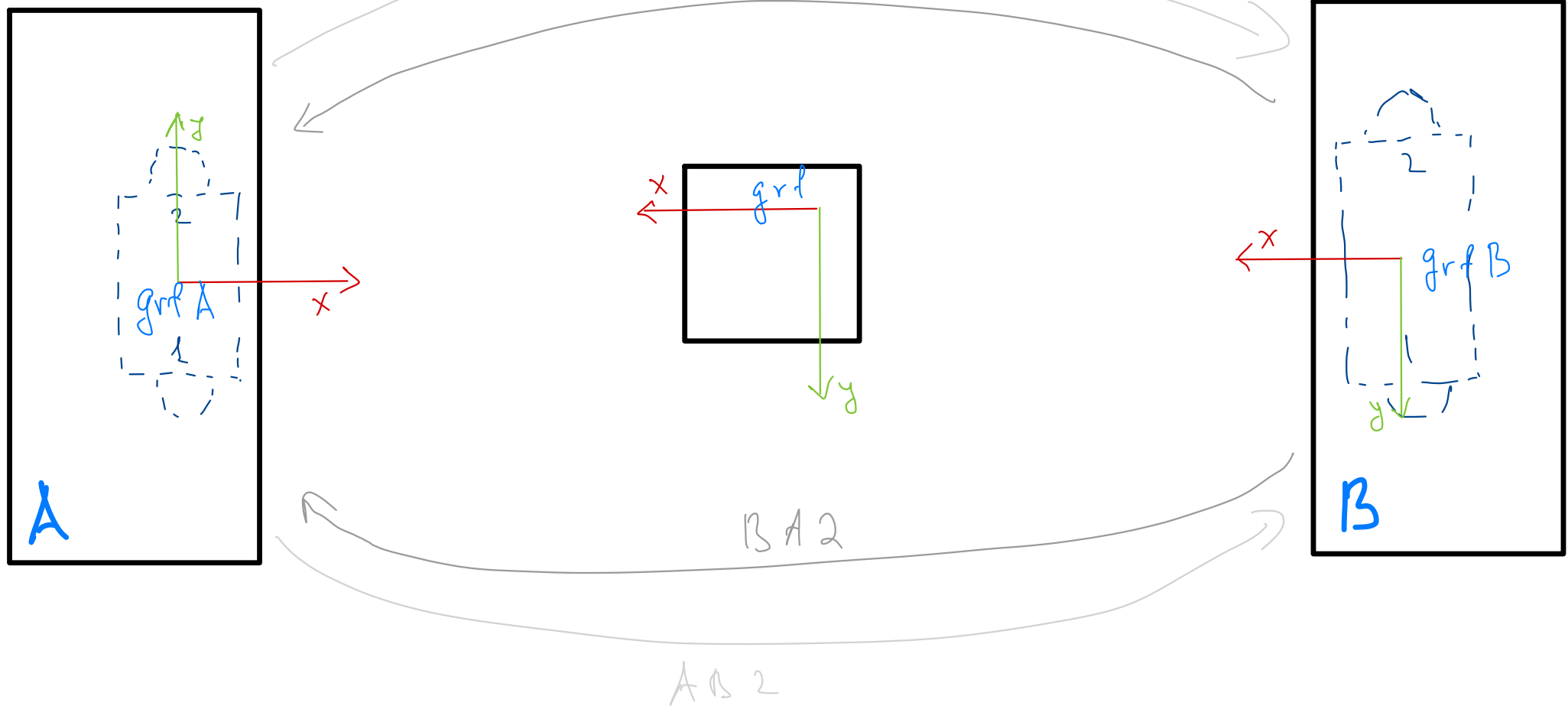
$$AB2 = AB2$$

$$BA1 = AB2$$

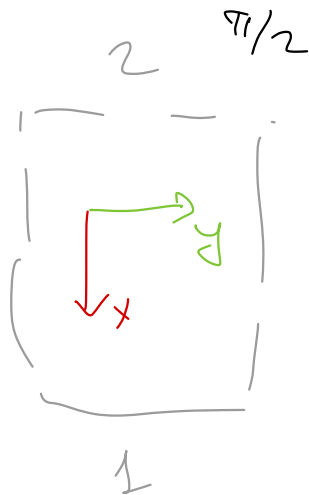
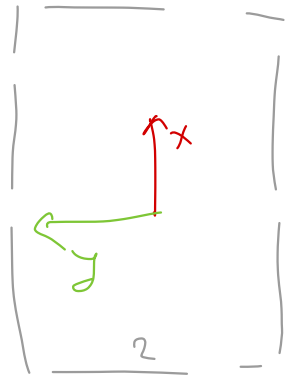
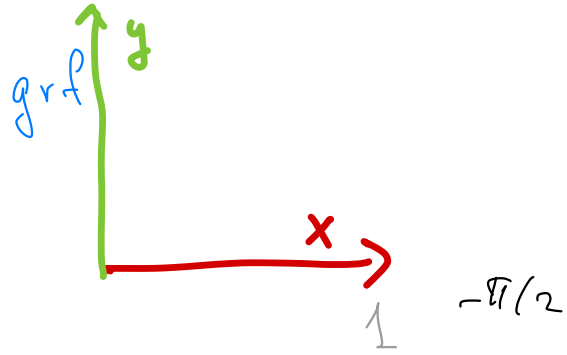
$$BA2 = AB1$$

$$\text{grf-grf}A = \begin{bmatrix} -1 & 0 & 0 & 1.42 \\ 0 & -1 & 0 & 0.12 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

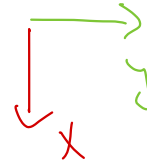
$$\text{grf-grf}B = \begin{bmatrix} 1 & 0 & 0 & -1.27 \\ 0 & 1 & 0 & 0.12 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$



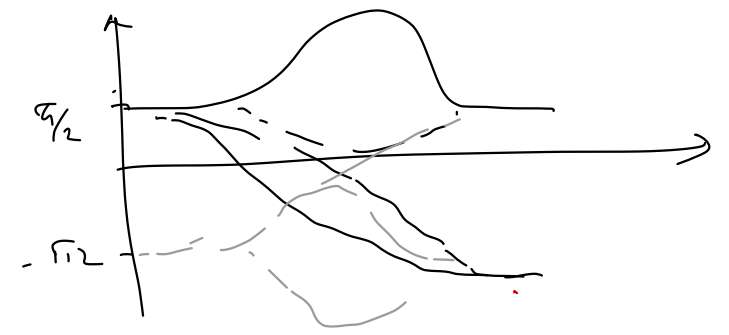
Possible angle range for the tray:



$\frac{\pi}{2}$



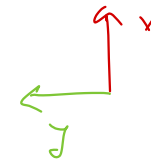
$\frac{\pi}{2}$



$-\frac{\pi}{2}$



$-\frac{\pi}{2}$



or

NED wrt Lab Environment.

