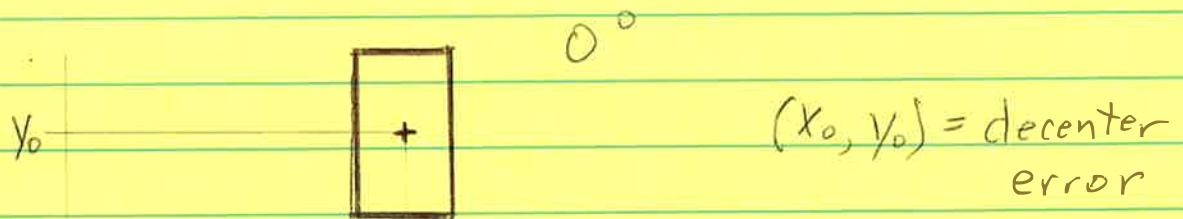Probe translation due to rotation off-center
   from probe center

$0°$

y_0

(x_0, y_0) = decenter
                  error

x_2 x_1

Center of rotation
of stage x_0

y_1

$90°$

y_2

$180°$