```
# new task config
initial_config = np.array([0.5236,.2,-.2,0,0,-1,0,0,0,0,0,0])
# The initial configuration of the end-effector in the reference trajectory:
```

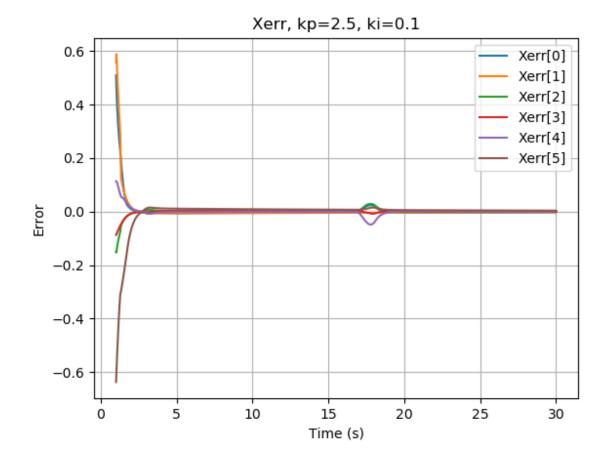
Tse_initial = np.array([[0, 0, 1, 0], 0],

The cube's initial configuration:

Tsc_initial = np.array([[1, 0, 0, 1]
$$[0, 1, 0, 0]$$
, $[0, 0, 1, 0.025]$, $[0, 0, 0, 1]$)

The cube's desired final configuration:

Controller Type Feedforward-Plus-PI controller



With KP=2.5 and Ki =0.1 , We can see that there is no overshoot, no steady-state error, and fast settling time with a little bump in between after which the plot PI again converges to 0