

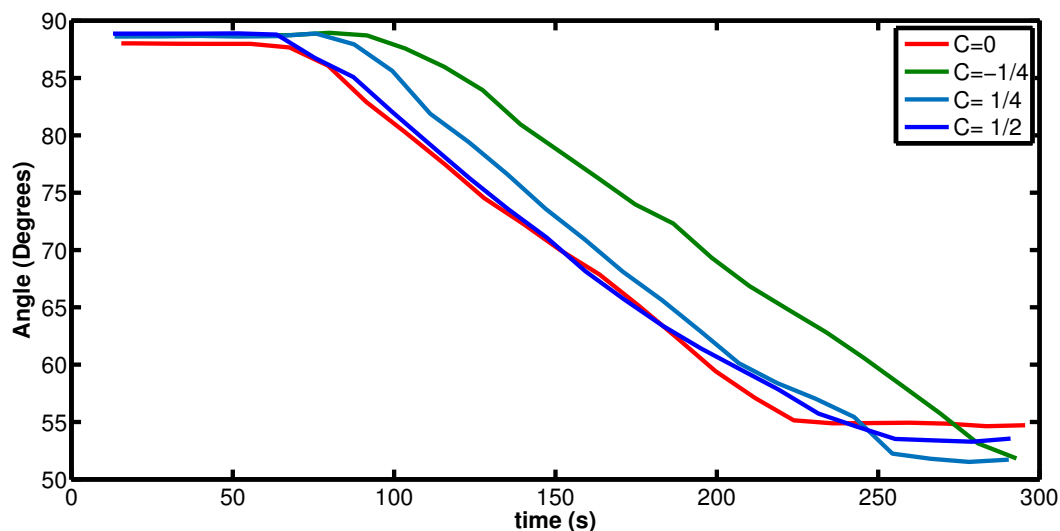
## Weekly report

### 1 My Objectives this week

- Completing the successful runs for the object manipulation experiment.
- Making a new plot for pure torque control.
- Friction idea: if it works and have a demonstration of that.

### 2 My Accomplishments this week

- The block pushing experiment worked! We had 4 more successful runs. They took in average 45 minutes to accomplish each.
- We had the pure torque control experiment. Attached is the plot.
- Mable tested if the magnets are good enough for the covariance control, and she said they are.
- Started writing the algorithms.
- Mable worked on the simulation, but it doesn't work yet.
- Lillian wrote the object orientation control base code.



**Figure 1:** Four different CLs to find the best. Here you see that the one with the lowest was affecting the object for the whole 5 minutes.

### 3 **My *Plan* for next week**

- We will have a manual control for the covariance control.
- The simulation still doesn't work completely. I would work on it a little bit to make it work.
- Object orientation control needs some ideas to work. It doesn't work when robots are in a good position.

#### 3.1 **Meeting with Dr. Becker**

- You are not here for the next meeting!