**Dynamic Friction Measurement Protocol**

1. Test if the system is stable for all velocities with the chosen PID control

\*All chosen velocities (and corresponding target position/time) are listed in the excel file dynamic\_friction\_velocities

1. Check if the data is stored correctly
2. Use the very “delicate” PID setup: Kp=0.1, Ki=0, Kd=0.001.
3. Input the indicated set of target position/ step duration.
4. Record with TDMS
5. What I’m looking for in the analysis: constant velocity vs current to maintain it (into torque)