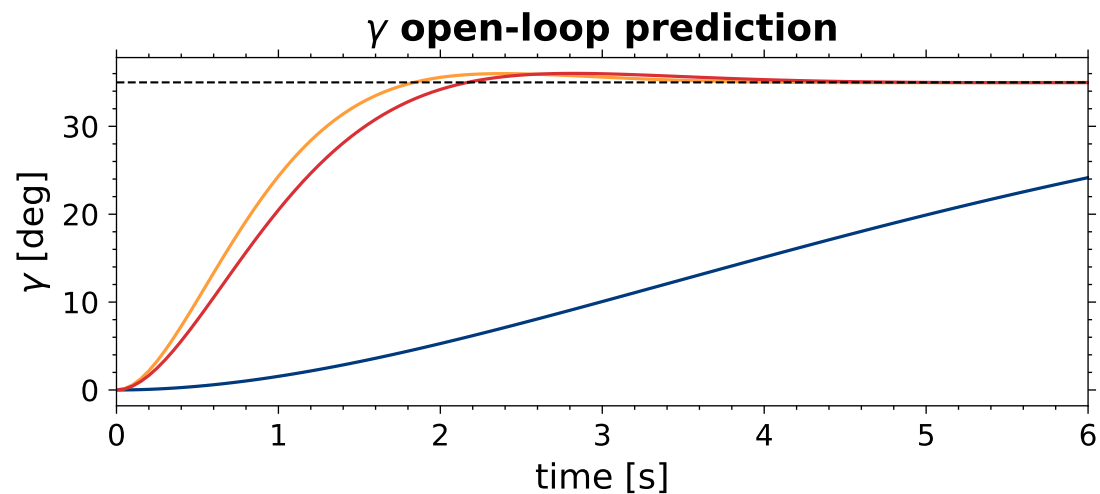
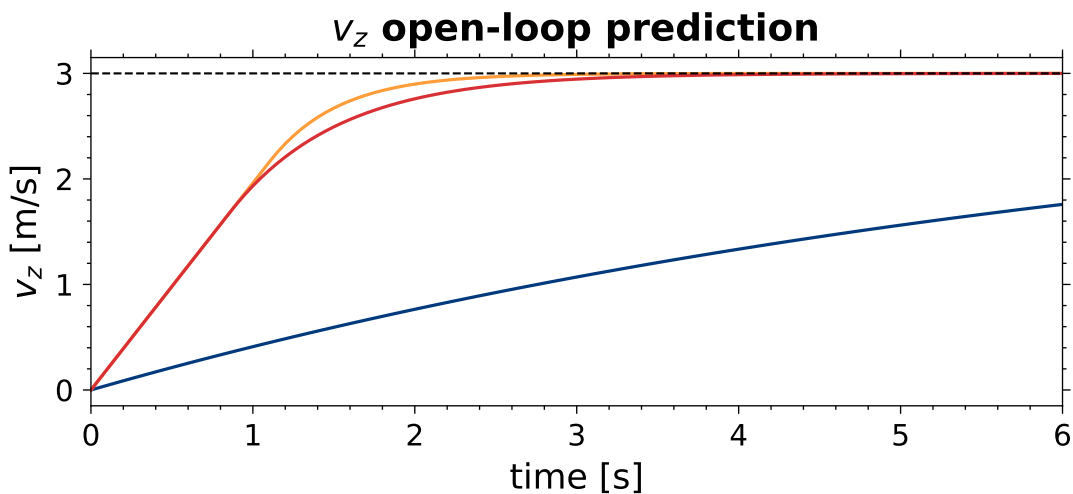
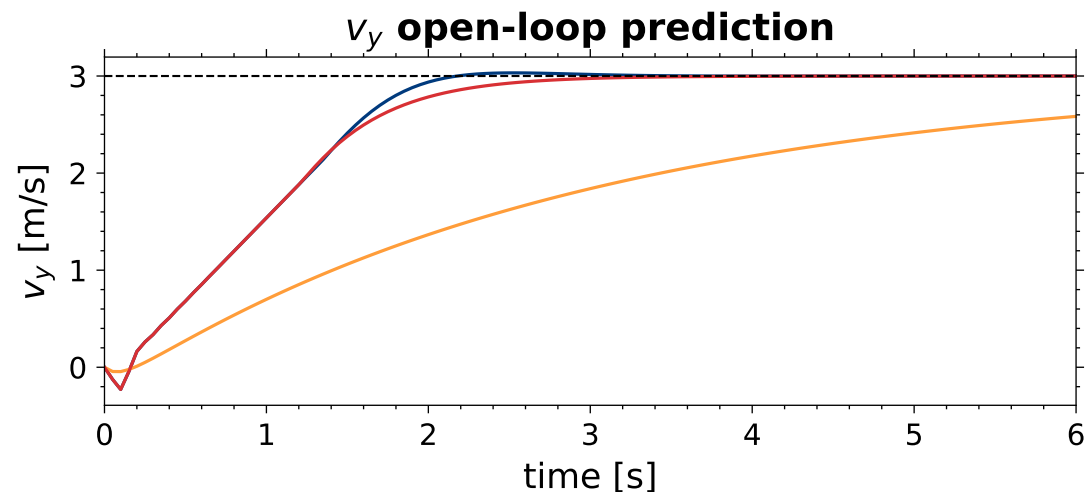
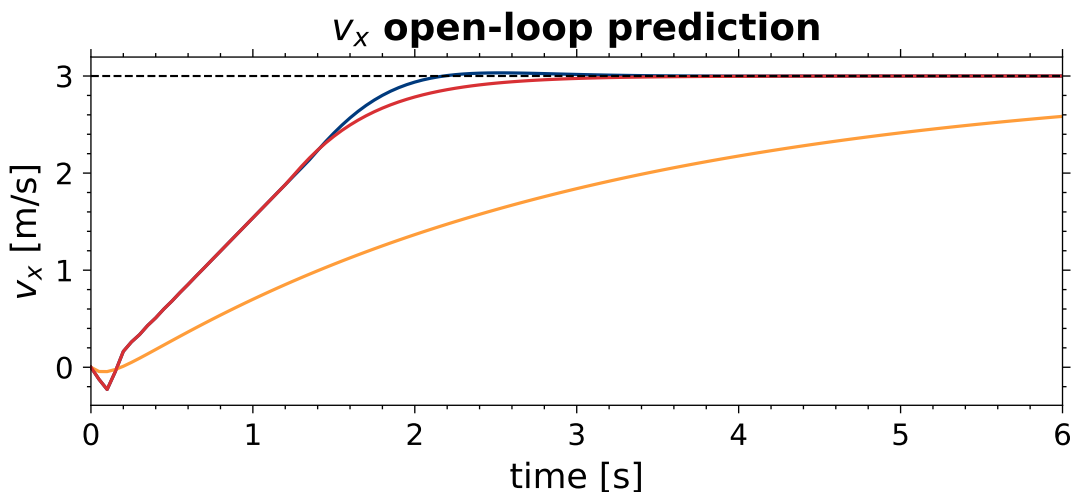


# Open-loop MPC predictions (tracking $v_x, v_y, v_z = 3 \text{ m/s}$ , $\gamma = 35^\circ$ )



$H = 6.0 \text{ s}, N = 120$

— Identity  $Q = I, R = I$

— Heuristic  $Q_{ii} = 1/x_{i,\max}^2, R_{ii} = 1/u_{i,\max}^2$

— Final tuned