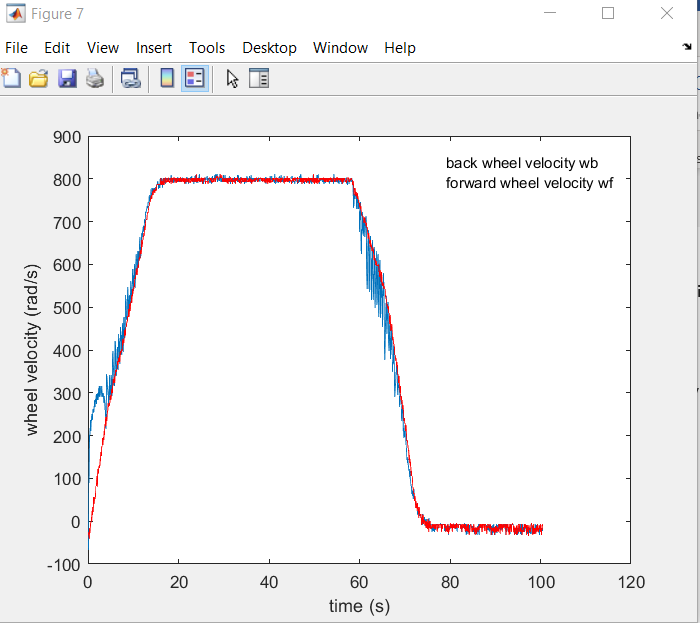
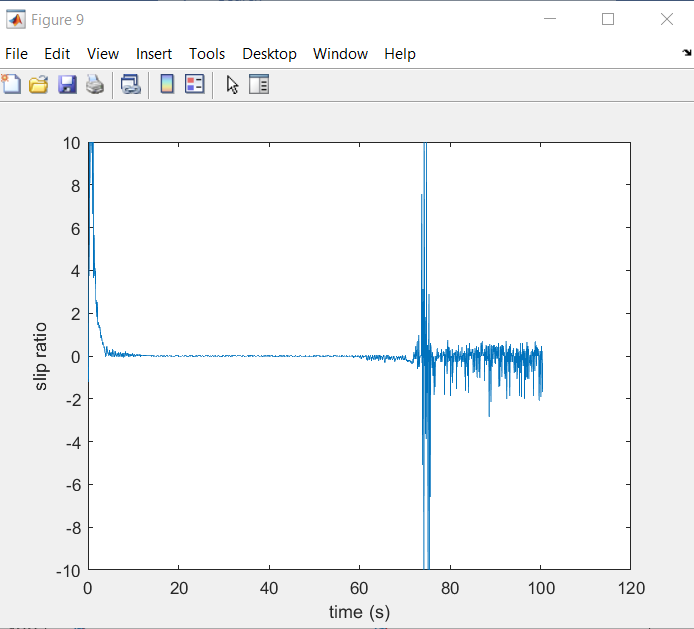
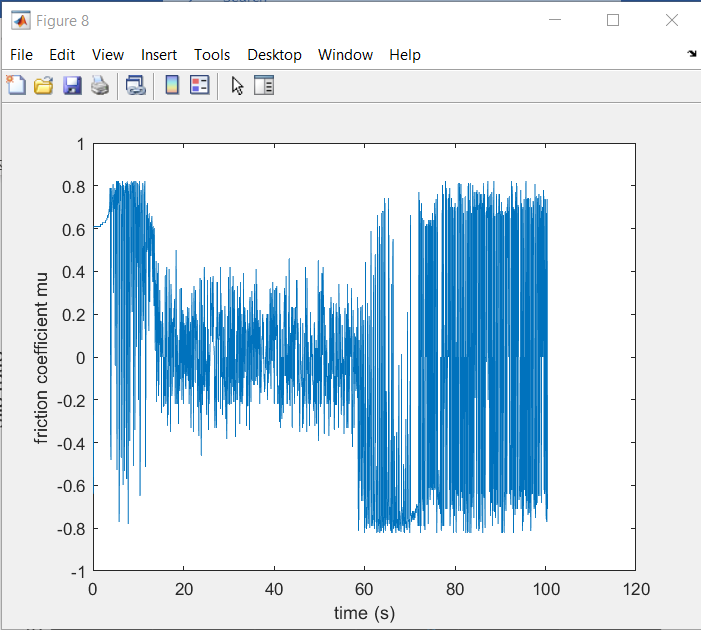
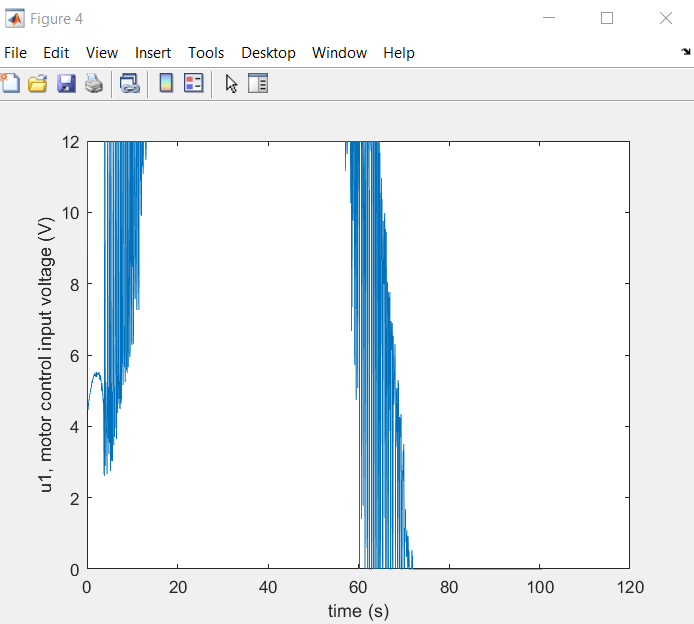
Control Mu: Max speed

Therefore, we set parameter to kp = 20 ,ki=2,kd = 0 to illustrate full speed launch, cruise and brake(with traction). And the HIL response is shown as below:



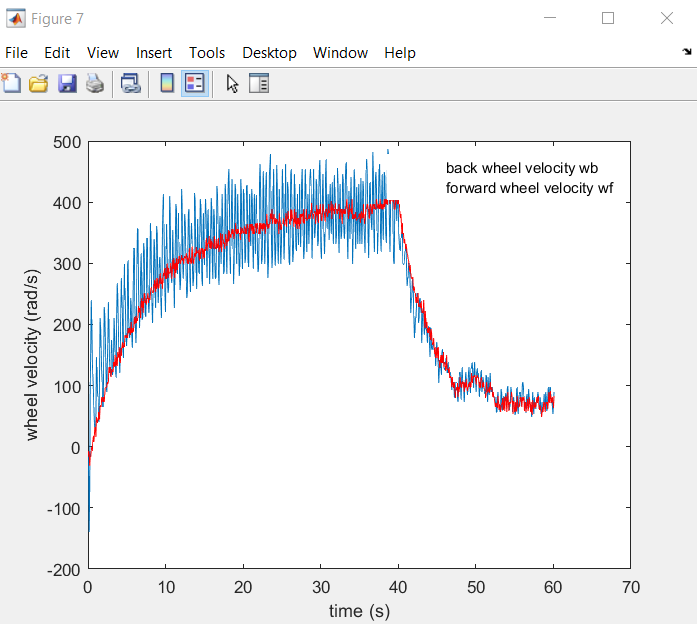


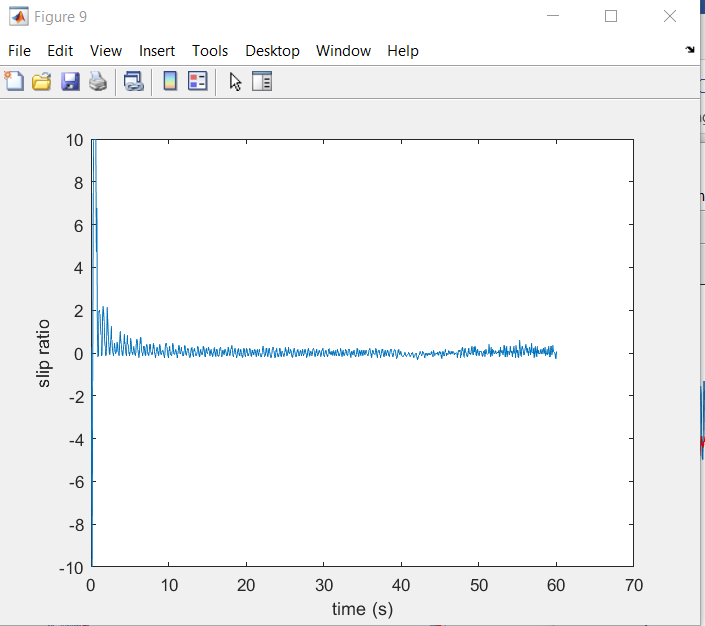


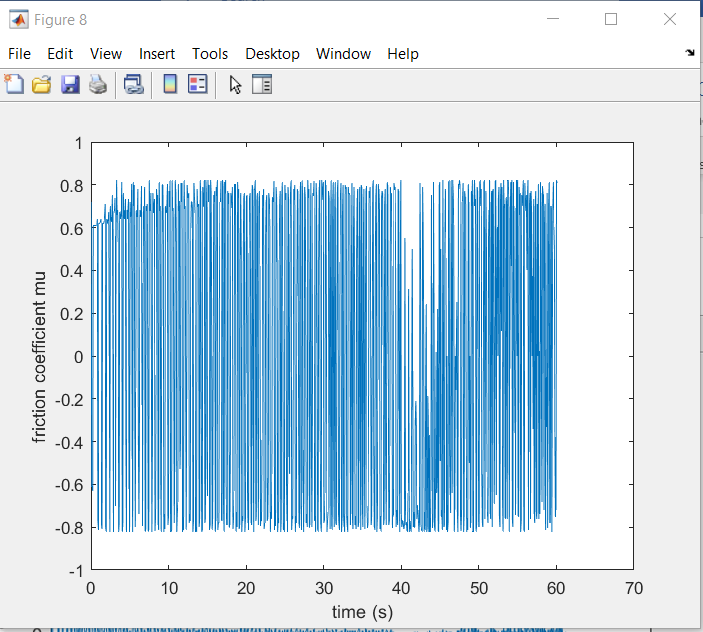


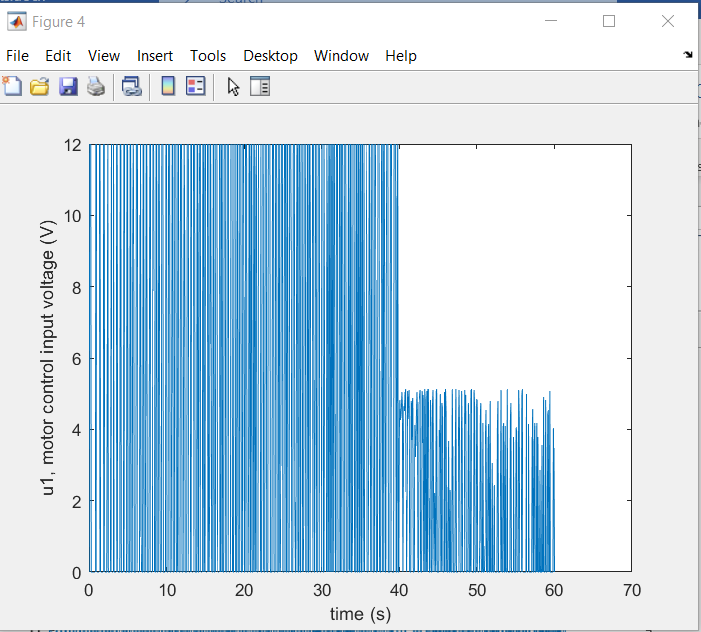
Control Mu: Normal speed

To illustrate normal speed launch, cruise and brake, we set kp = 16, ki = 0, kd= 0 and mu =0.4(should set final speed to 400rads/s). And the HIL response is shown as below:









Control slip ratio

