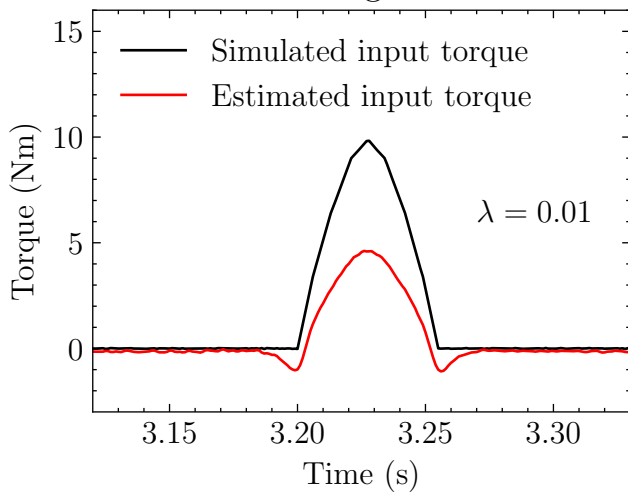
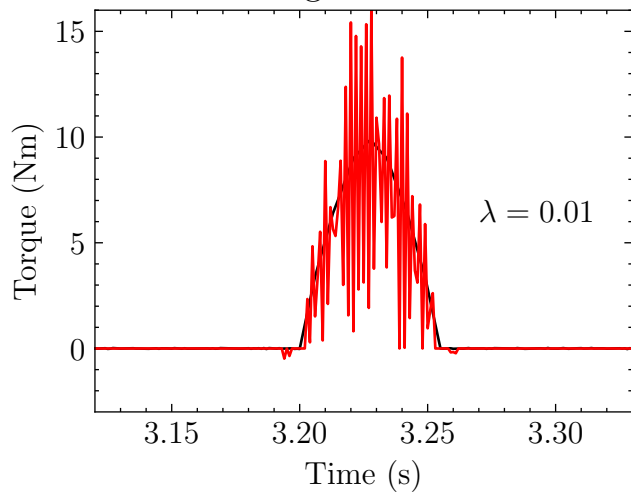
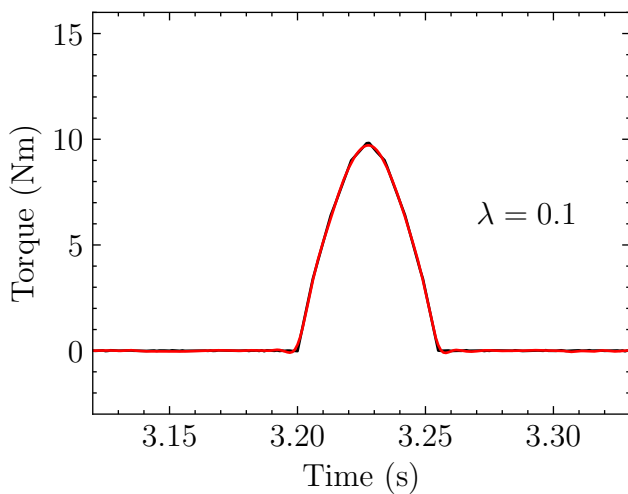


Tikhonov regularization

 $\ell_1$  regularization

H-P trend filter

 $\ell_1$  trend filter