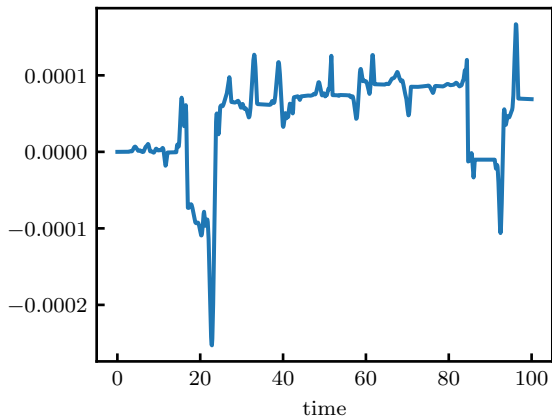
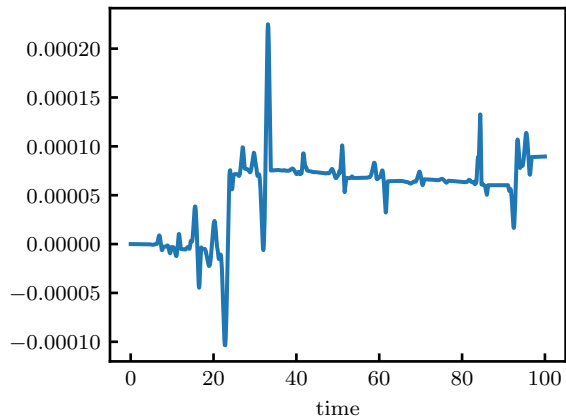
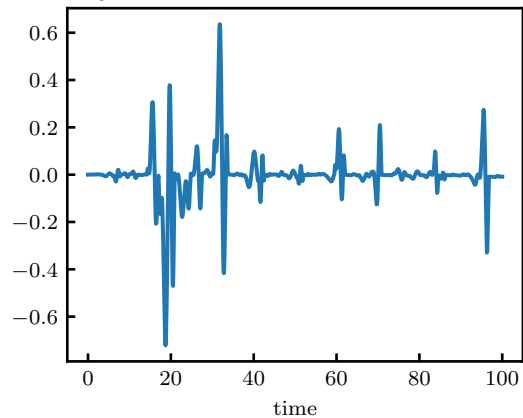


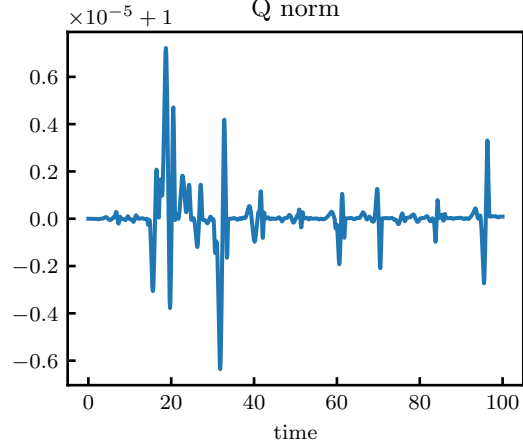
qnq\* component 1



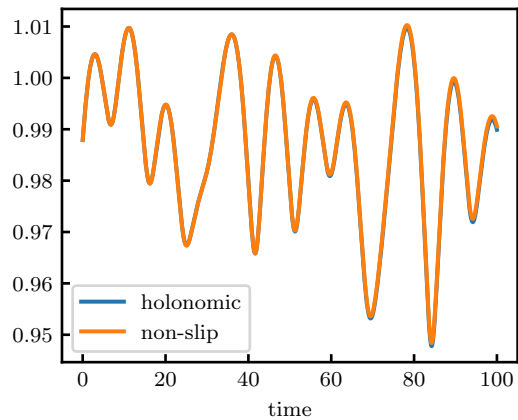
qnq\* component 2

 $\times 10^{-5} - 1$  qnq\* component 3

Q norm



z position



xy trajectory

