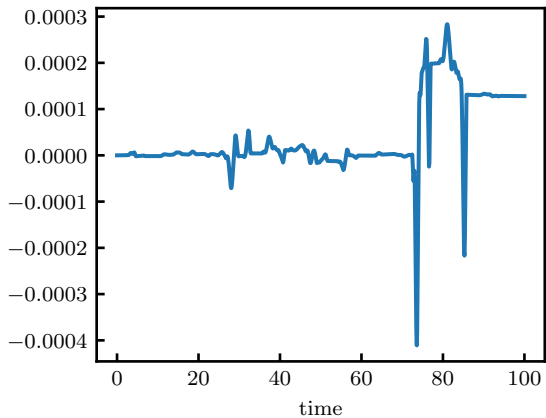
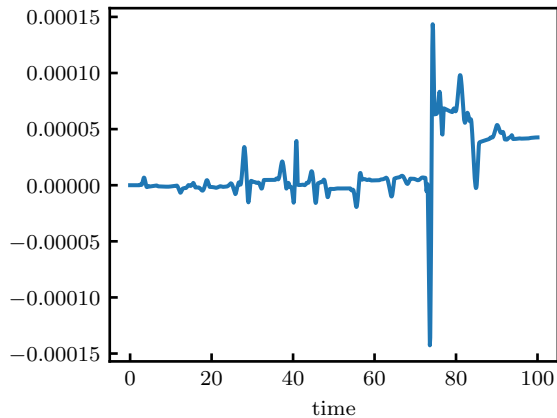
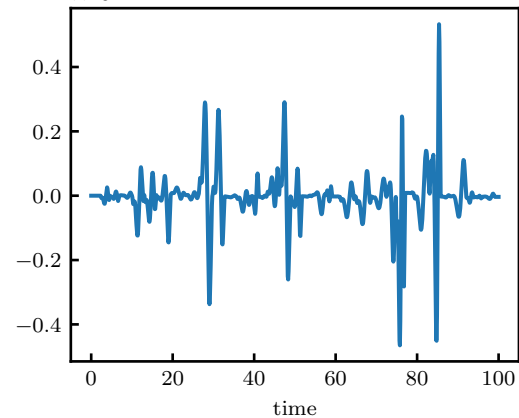


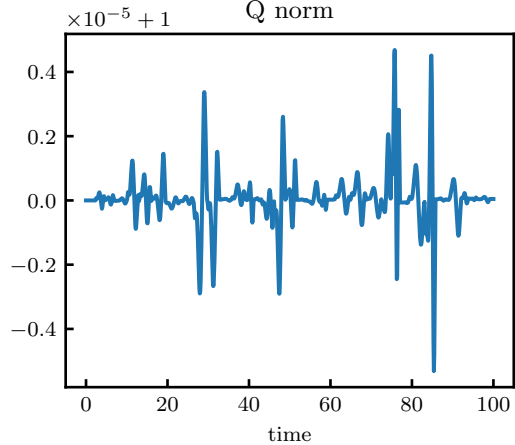
qnq* component 1



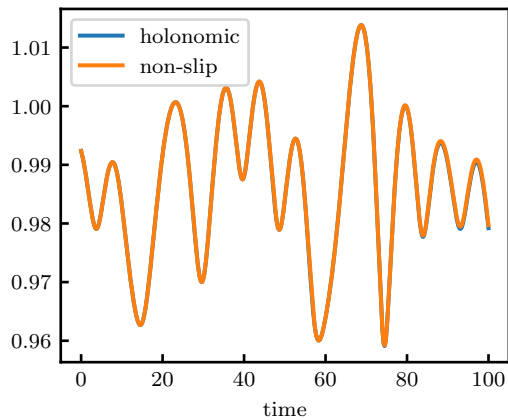
qnq* component 2

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

Q norm



z position



xy trajectory

