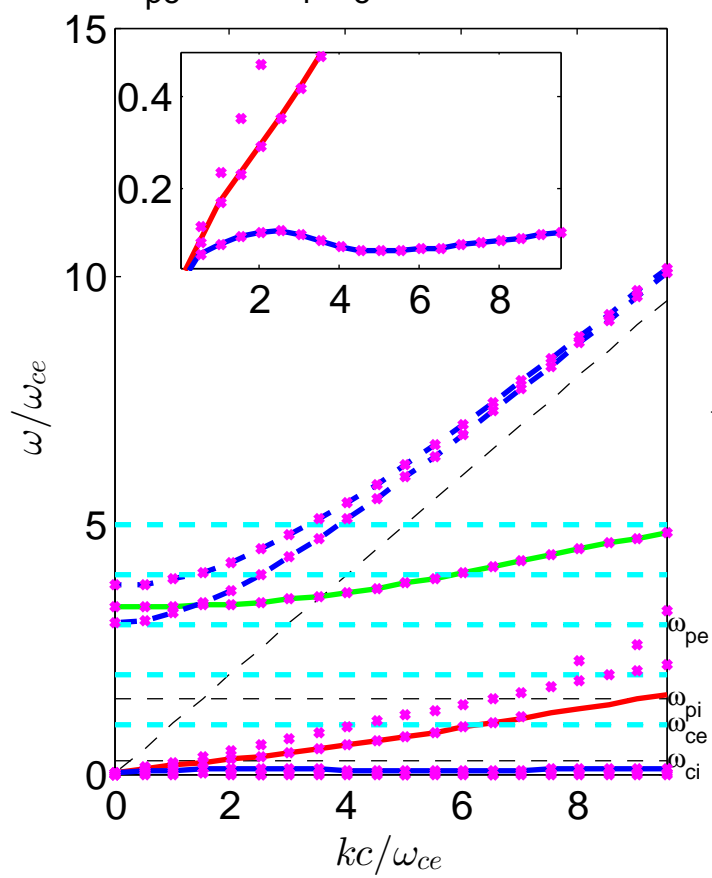


(a)  $\omega_{pe} = -3$ ,  $m_i/m_e = 4$ ,  $N=2$ ,  $\theta=0.057296$



(b)  $J=8$ ,  $NN=726$

