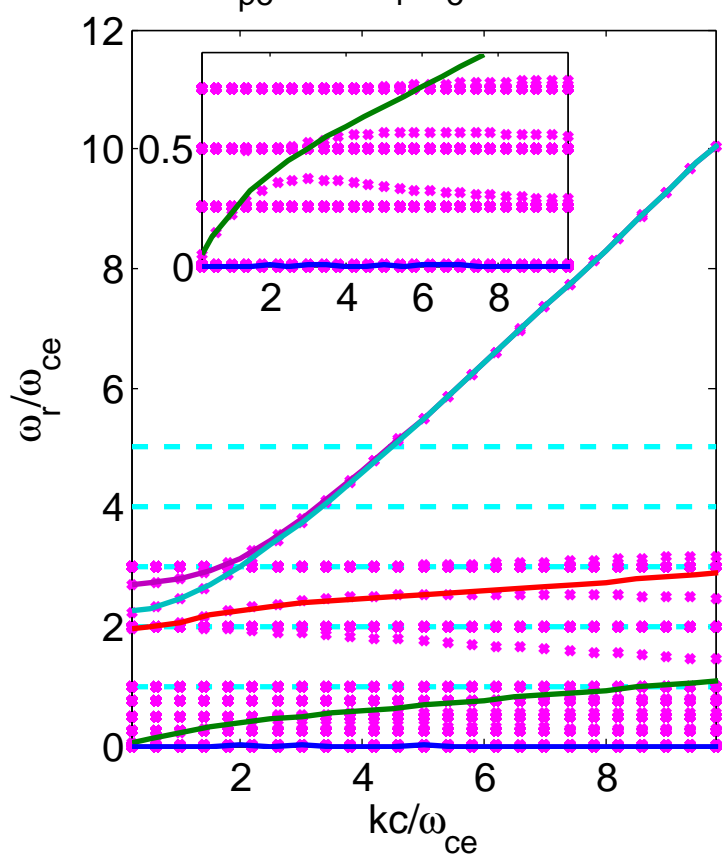


(a) $\omega_{pe} = -2$, $m_i/m_e = 4$, $N=3$, $\theta=90$



(b) $J=8$, $NN=1014$

