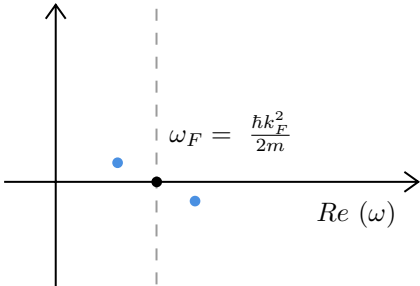


$Im(\omega)$



$$\omega_F = \frac{\hbar k_F^2}{2m}$$

$Re(\omega)$