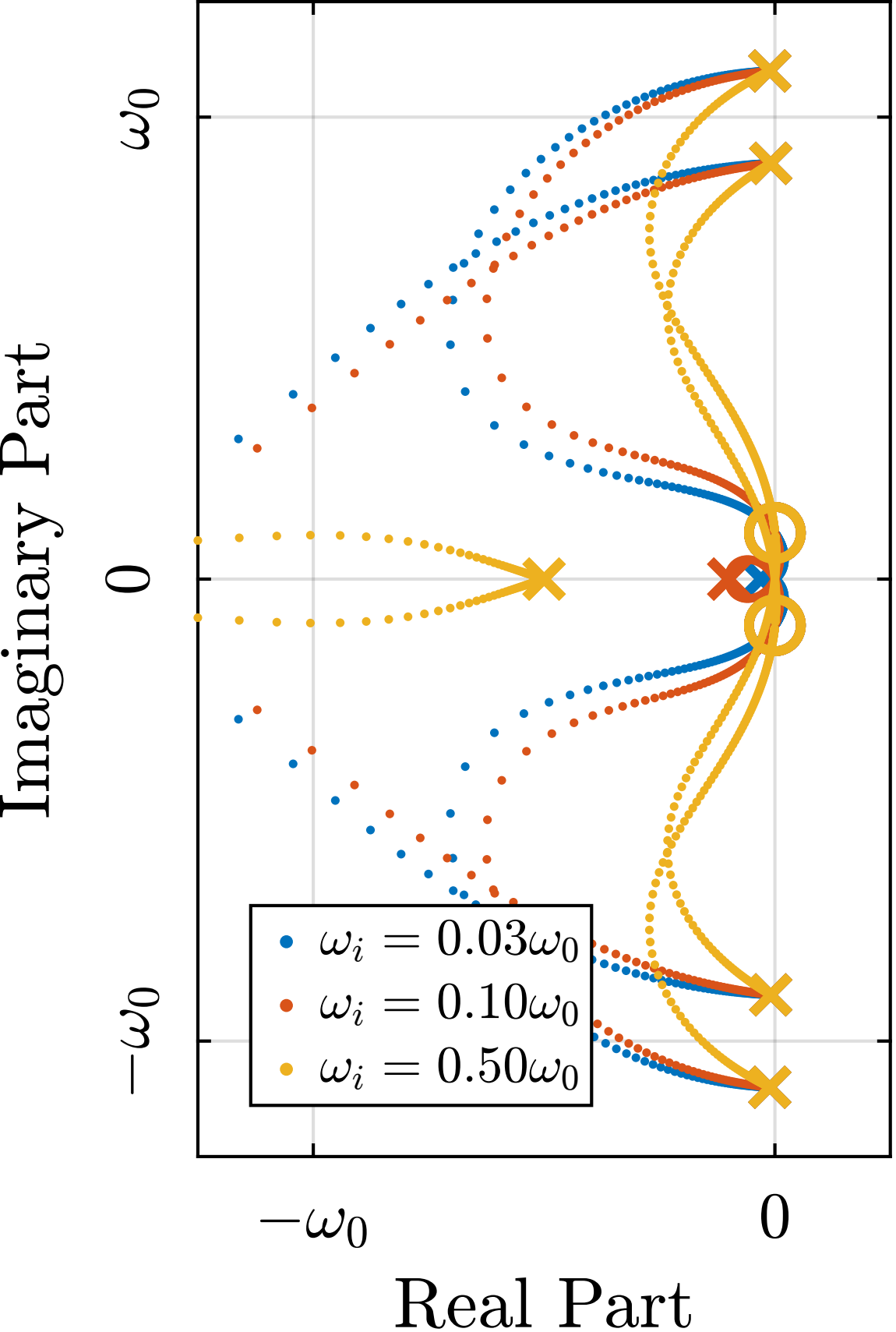
ω_0
0
$-\omega_0$
Imaginary Part
$-\omega_0$
0
Real Part
$\omega_i = 0.03\omega_0$
$\omega_i = 0.10\omega_0$
$\omega_i = 0.50\omega_0$