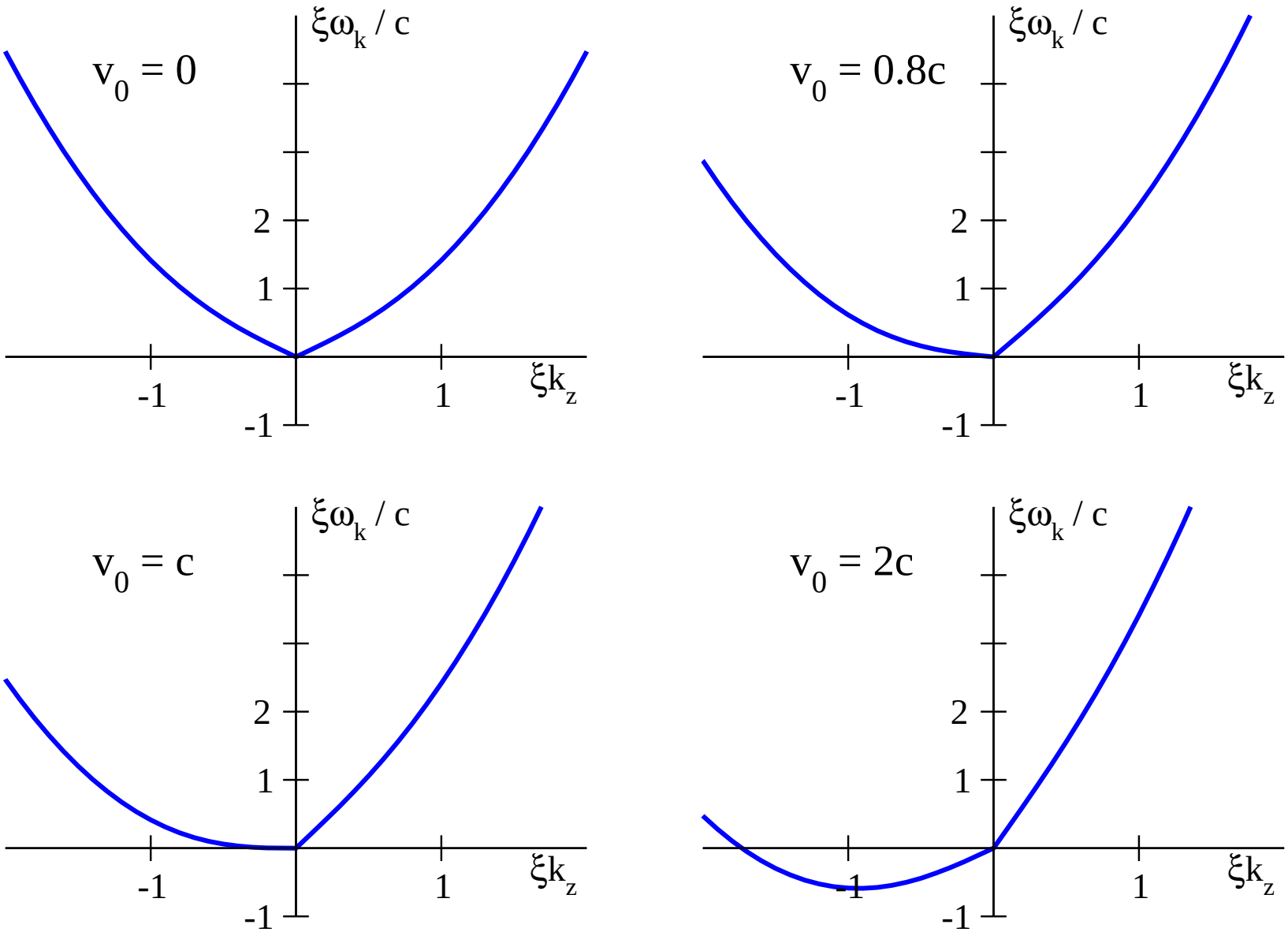
$v_0 = 0$
$v_0 = 0.8c$
$v_0 = c$
$v_0 = 2c$
$\xi\omega_k / c$
ξk_z
2
1
-1
1
-1