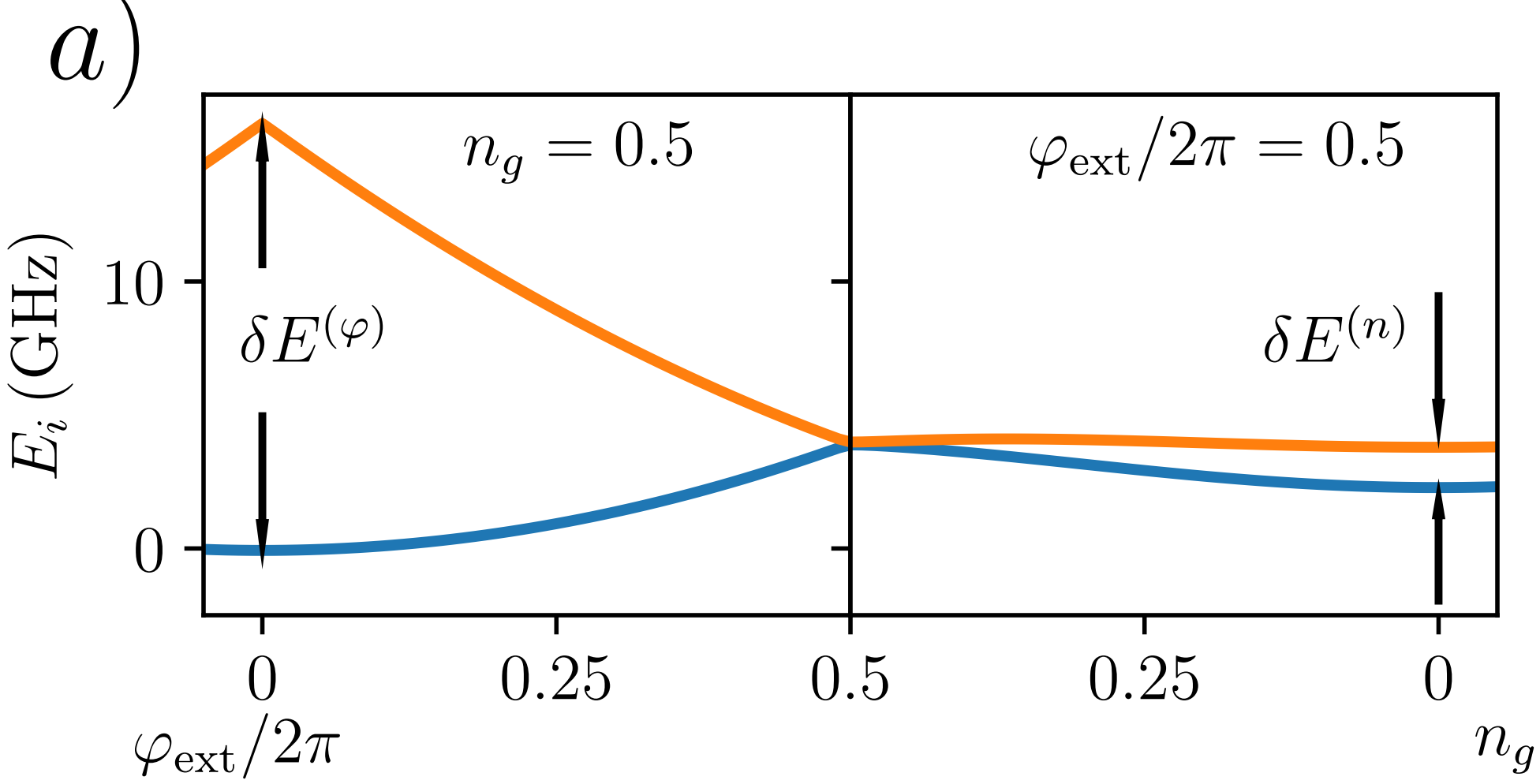
a)
$n_g = 0.5$
$\varphi_{\text{ext}}/2\pi = 0.5$
$\delta E^{(\varphi)}$
$\delta E^{(n)}$
$E_i$ (GHz)
10
0
0
0.25
0.5
0.25
0
$\varphi_{\text{ext}}/2\pi$
$n_g$