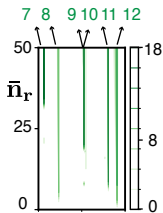
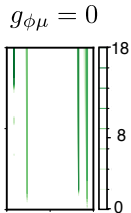


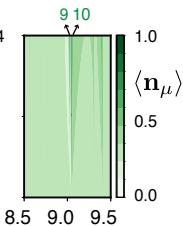
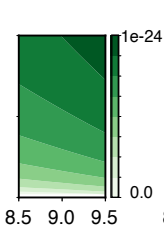
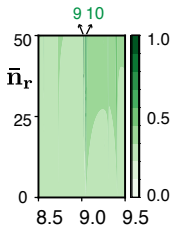
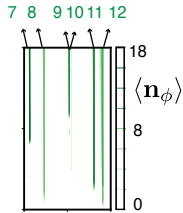
(a) $g_{\phi\mu} \gg g_{\mu r} \neq 0$



(b) $g_{\phi\mu} = 0$



(c) $g_{\mu r} = 0$



$\omega_d/2\pi$ [in GHz]