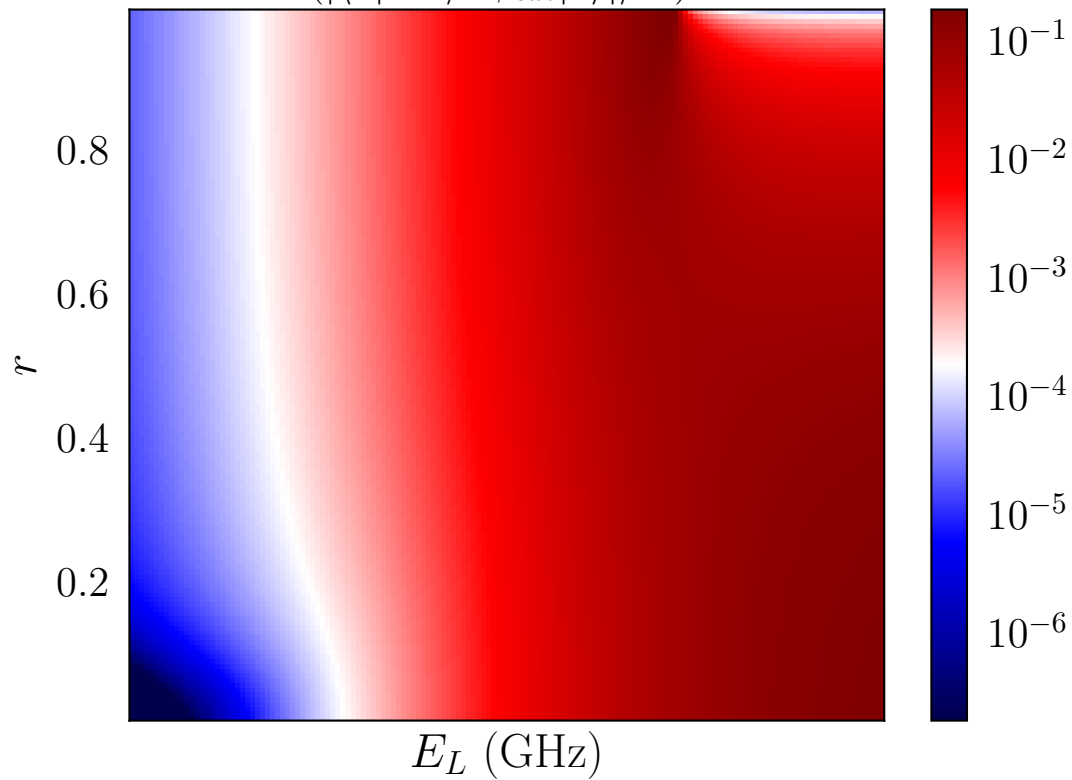
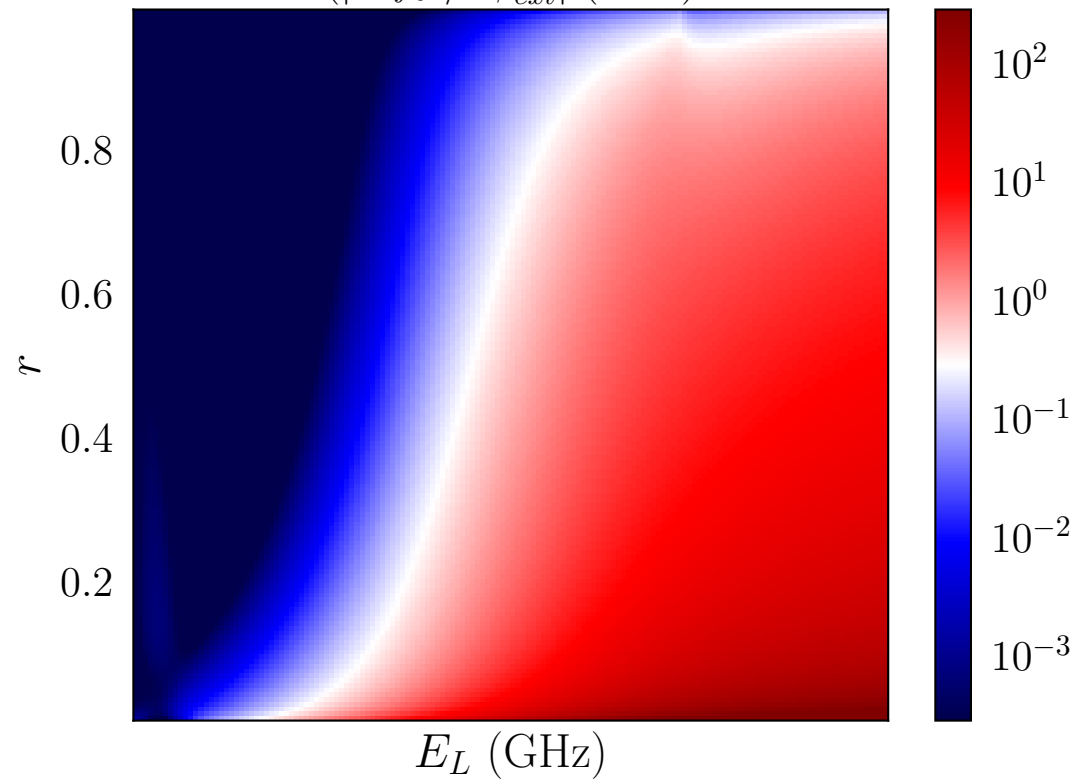


$$E_C = 40 \text{ GHz}, \Delta = 20 \text{ GHz}, \phi_{ext} = \pi$$

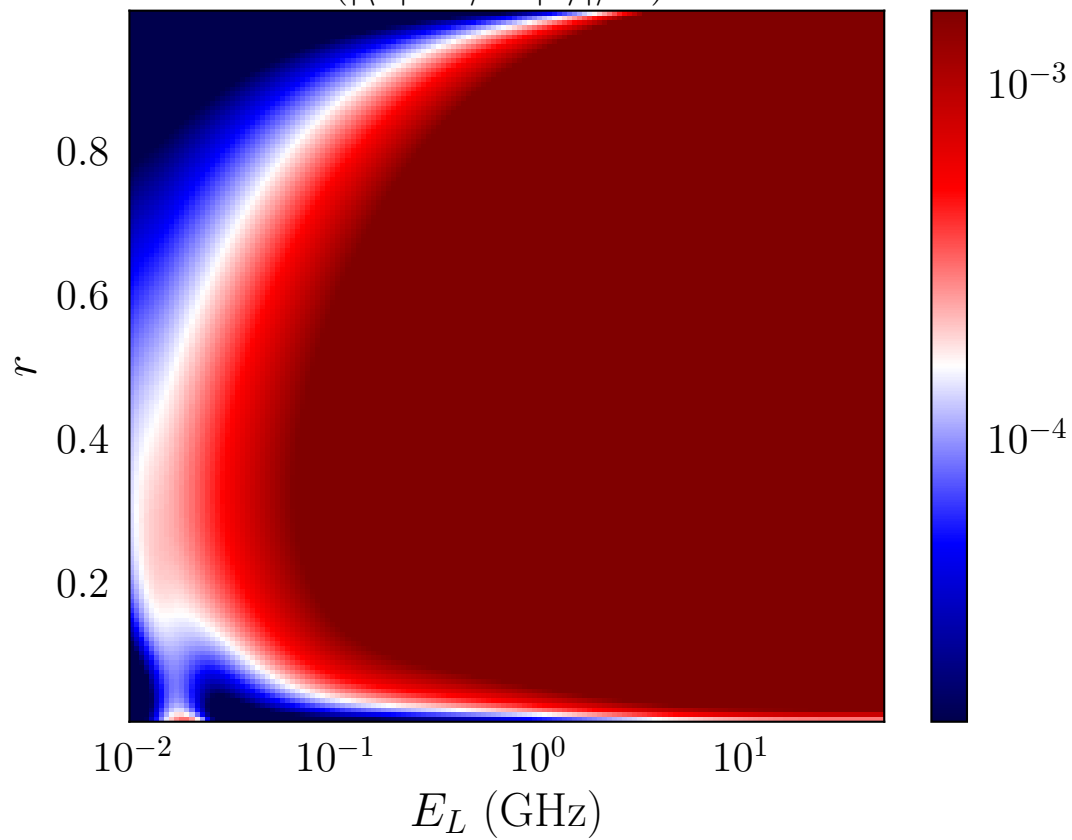
$$(|\langle 1 | \partial H / \partial \phi_{ext} | 0 \rangle| / \Delta)^2$$



$$|\partial^2 f_{01} / \partial \phi_{ext}^2| \text{ (GHz)}$$



$$(|\langle 1 | \partial H / \partial r | 0 \rangle| / \Delta)^2$$



$$|\partial f_{01} / \partial r| \text{ (GHz)}$$

