



Goal: static and dynamic response of the system close to miscible/immiscible transition

Parameters:

$$N_{\uparrow} = N_{\downarrow} \simeq 10^6$$

$$[\omega_x, \omega_y, \omega_z] / 2\pi = [47.7, 207.2, 156.8] \text{ Hz}$$

$$a_{\uparrow\uparrow} = a_{\downarrow\downarrow} = 54.54(20)a_0$$

$$a_{\uparrow\downarrow} = 50.78(40)a_0$$

