

F20 PHYSICS 137B: HW 4

Due September 25 at 5 pm

September 15, 2020

1 Griffiths problems

Do the following problems from Griffiths: 7.9abc, 7.11, 7.15, 7.19

2 Other problems

2.1

How does the threefold-degenerate energy

$$E = 3\hbar\omega_0, \tag{2.1}$$

of the two-dimensional harmonic oscillator separate due to the perturbation:

$$H' = Kxy \tag{2.2}$$