

Data File For Fixed Points

Non-crystalline phase:

$$\Delta = 2.5 \times 10^6$$

$$\alpha = 0.01$$

Fixed points $(a_r^*, a_i^*, b_r^*, b_i^*) = (0,0,0,0)$

Anharmonic phase:

$$\Delta = 0.1 \times 10^6$$

$$\alpha = 0.3$$

Fixed points $(a_r^*, a_i^*, b_r^*, b_i^*) = (0,0,0,0)$

Limit cycle: Data for limit cycle is in the file named “data_anharmonic_1fps.dat”.

Biharmonic phase:

$$\Delta = 0.1 \times 10^6$$

$$\alpha = 0.022$$

Fixed points $(a_r^*, a_i^*, b_r^*, b_i^*) = (0,0,0,0), (0.0508, 0.2340, 0.00648, 0.2086), (-0.0508, -0.2340, -0.00648, -0.2086), (0.0941, 0.0912, 0.08381, 0.0172), (-0.0941, -0.0912, -0.08381, -0.0172)$

Limit cycle: Data for limit cycles is in files named “data1_biharmonic_5fps.dat” and “data2_biharmonic_5fps.dat”.

Subharmonic phase:

$$\Delta = 0.1 \times 10^6$$

$$\alpha = 0.007$$

Fixed points $(a_r^*, a_i^*, b_r^*, b_i^*) = (0,0,0,0), (-0.0443, -0.1935, 0.0125, -0.1601), (0.0443, 0.1935, -0.0125, 0.1601), (0.0323, 0.0464, 0.0289, -0.1232), (-0.0323, -0.0464, -0.0289, 0.1232)$