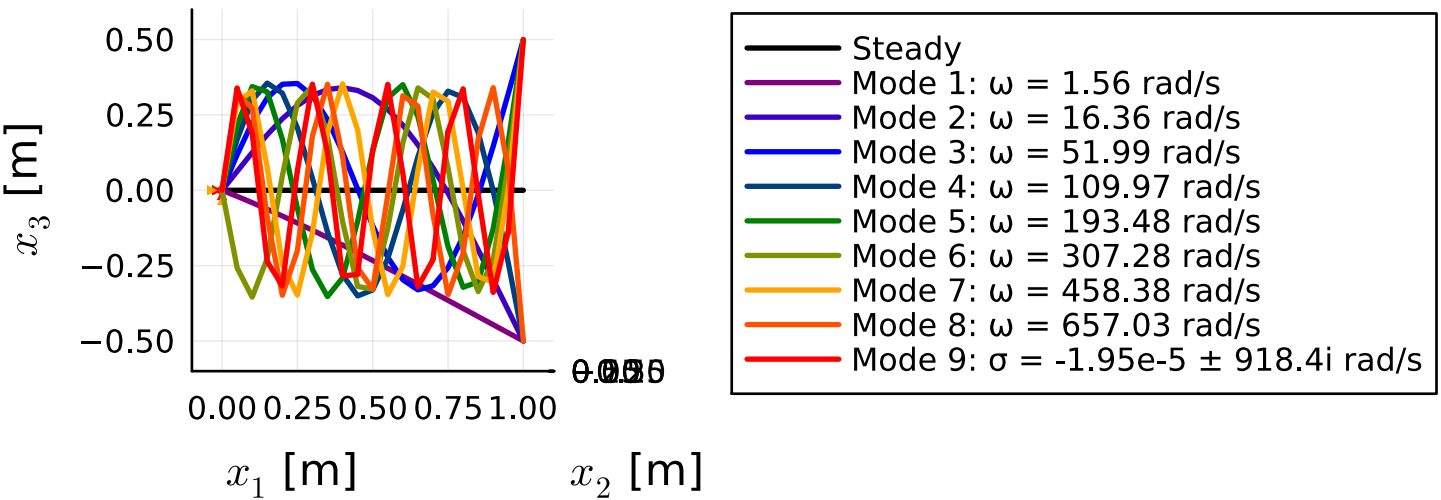

0.50
0.25
0.00
−0.25
−0.50
x_3 [m]
0.00 0.25 0.50 0.75 1.00
x_1 [m]
x_2 [m]
Steady
Mode 1: ω = 1.56 rad/s
Mode 2: ω = 16.36 rad/s
Mode 3: ω = 51.99 rad/s
Mode 4: ω = 109.97 rad/s
Mode 5: ω = 193.48 rad/s
Mode 6: ω = 307.28 rad/s
Mode 7: ω = 458.38 rad/s
Mode 8: ω = 657.03 rad/s
Mode 9: σ = -1.95e-5 ± 918.4i rad/s