

Phys338/Homework #4

Due on Monday 19/10/2020

Use the nonlinear equation solution codes shown in class (or write your own code) to solve the following problem: Consider two springs of equilibrium length $L_0 = 10.0 \text{ cm}$ and spring constant $k = 490 \text{ N/m}$ that are fixed to the ceiling at two points $2L_0$ apart. If an object of mass m is linked to the other sides of the two springs as shown in the figure. Plot the angle that the springs make with the ceiling for mass values up to 16.0 kg .

