

PHYS 222 Classical Mechanics II (Spring 2019)
Quiz #2

Consider a spherical pendulum – a point mass m suspended by a rigid weightless rod of length l that is subject to gravity force and can swing in any direction. The position of the pendulum is described by two angles: θ (the angle between the rod and the vertical axis) and ϕ (the angle in the plane perpendicular to the vertical axis). Determine the Hamiltonian of this system.

