

H. Hergert

Facility for Rare Isotope Beams
and Department of Physics & Astronomy



PHY422/820: Classical Mechanics

FS 2020

Exam Preparation

December 1, 2020

Problem P12 – Moment of Inertia of a Space Station

A design for a space station places four spherical modules of mass m and radius R on the intersection points of a square with side length a with a thin ring of mass M (see figure). Construct the station's moment of inertia tensor with respect to the center of mass.

