

PHYSICS 5I
Homework 8

Not to be handed in; solutions will shortly be available on the class website:

<http://physics.ucsc.edu/~peter/5I>

Material in this assignment *may* be on the final exam.

FINAL EXAM: Wednesday December 9, 4:00–6:00 pm.
Note the day and time. Bring a calculator.

1. The commercially available Euler's disk has a radius of 3.75 cm. Find the angular velocity with which it rotates about the vertical axis when the disk makes an angle of 1° with the horizontal.
2. Giancoli, Qu. 12.5 (diving board).
3. Giancoli, Qu. 12.50 (a simple truss).
4. Giancoli, Qu. 12.96(a) (Tyrolean traverse). (Don't try this!)