PH 429/529 **WS #2** Spring 2000

1. Study the animations at `http://www.physics.orst.edu/paradigm9/hockey`. One of these will be assigned to your group; discuss it until you understand what is going on. One member of your group may be asked to explain it to the rest of us.

   Turn in a short (1 paragraph) description of the assigned animation. Each member of a group should turn in their own description.

2. Work through the Maple worksheet `/usersB/tevian/maple/ph429/EarthHockey.mws`.

(a) Make sure you understand the default pictures.

(b) Try your own initial configurations. Compare different values of Ω (including negative).

(c) Try to produce a boomerang, that is a configuration which returns to its initial position as seen by the rotating observer.

(d) Try to mimic the animation you worked on earlier. (You may need to change the viewpoint of the animation; see me if you are unsure how to do this.)

Turn in any single picture describing a situation different from any of the preconfigured examples. Each member of a group should turn in a different picture. Indicate the values of all parameters used, and describe briefly in words how both the rotating and nonrotating observers would describe the motion.