

# P1310L, Angular Momentum

## Lab 12, Raw Data Sheet

Submitted by: \_\_\_\_\_ Experiment's date: \_\_\_\_\_

Team members:

1.- \_\_\_\_\_ 2.- \_\_\_\_\_

3.- \_\_\_\_\_ 4.- \_\_\_\_\_

Instructor must initial: \_\_\_\_\_

### Orbiting Puck

Follow the instructions on the lab manual and collect the following information.

Table 1: Spark Table Parameters

Puck's Mass (g)	Spark Frequency (Hz)

Table 2: Ellipse Semi-axes lengths

Major (cm)	Minor (cm)

Table 3: Distances between adjacent dots at one end of each Semi-axis

at Major (cm)	at Minor (cm)

## Changing of Moment of Inertia

1. Follow the instructions on the manual and record your observations.

## Spinning Bicycle Wheel

2. Describe what happens after you re-orient the wheel in step 4: shifting the angular momentum up 45 degrees off the horizontal.

3. Describe what happens after you re-orient the wheel in step 6: shifting the angular momentum down 45 degrees from the horizontal.

4. Describe what happens after you re-orient the wheel in step 9: shifting the angular momentum 45 degrees off the vertical.

5. Describe what happens after you re-orient the wheel in step 11: inverting the angular momentum from pointing up to pointing down.

