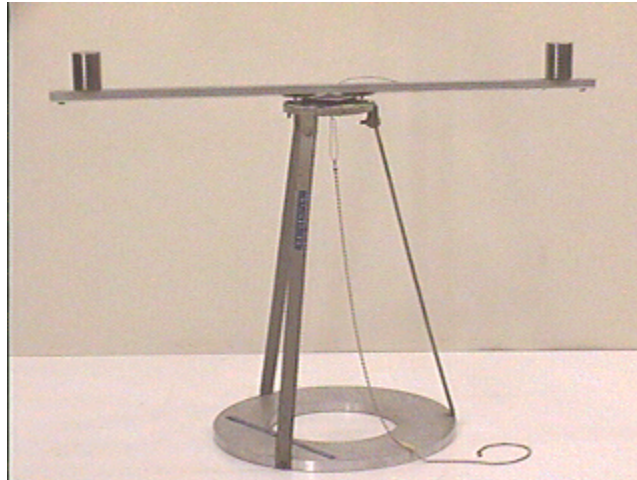


Question #76

A crossarm rotates around its axis as photographed below. Two masses are located at the ends of the crossarm as seen in the photograph. Clicking your mouse on the photograph shows the system in motion with the masses at the ends of the crossarm.

Pulling down on a string pulls the masses in, as seen in an [mpeg video](#).



Now suppose that after the crossarm is set into rotation the masses at the ends of the crossarm are pulled inward.

When the masses are pulled inward, the crossarm will:

- (a) rotate more rapidly.
- (b) rotate more rapidly initially, but immediately slow back down.
- (c) rotate more slowly.
- (d) rotate more slowly initially, but immediately speed back up.
- (e) continue to rotate at the same angular speed.

Click here for [Answer #76](#) after August 13, 2001.

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For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](#) by e-mail or using phone number or regular mail address

given on the [Lecture-Demonstration Home Page](#).