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Product Name :
Conservation Of Angular Momentum

Product Code :
LBNY-0005-1330002



Description :

This is often seen in an ice skater performing a pirouette. First they spin round on an axis corresponding to their body, arms outstretched. When they raise their arms above their head, the increase in spin is considerable. Conservation of linear momentum is well understood and often demonstrated to students. Rather than go to an ice rink, students can perform this experiments in the laboratory. Equally important is the conservation of angular momentum. It is not easy to do meaningful experiments on this, but a highly visual demonstration of almost dramatic impact is the effect of reducing the radius of a rotating mass.

The resulting increase in angular velocity is considerable.

The weights are moved to the outer ends of their travel, away from the centre of rotation. The arm is then spun rapidly by hand, and the weights pulled towards the centre by the cord.

A bench mounted vertical board has a rotating arm along which two weights can be moved by a pull cord operated by the student or demonstrator.

Features:

Used for demonstration only, no measurements are intended. Demonstrates basic concepts of conservation of angular momentum through visual observation.

Low cost, effective teaching Self-contained Wall mounted High visual impact "hands-on" experience Range of Experiments.

Technical Specification :

Conservation Of Angular Momentum



Laboratory Instrument India