

Angular Acceleration



Purpose: Demonstrates the radial dependence of the acceleration experienced in a rotating system.

Using two liquid filled accelerometers, you can visually demonstrate that the acceleration really does increase with r and ω .

Note: The metal bar fits into the top of the blue rotating stool. Fill the accelerometers with colored water to the fill line. The marks further up the sides now indicate (crudely) 0.25 g increments. The accelerometers can then be placed in the track (with the calibration marks on the outboard side) and *lightly* clamped with the bolt.

Extra Equipment: Food Coloring

Location: Shelf A4, the blue stool is on shelf A5.