

Doppler Rocket



Purpose: To observe the Doppler frequency shift of a moving sound source.

Location: room 146, shelf O5

This device may be used two ways to demonstrate the Doppler effect: 1.) By swinging the Doppler Rocket overhead in a circle, or 2.) By flying the Doppler rocket horizontally across the room (right photo). The overhead demo is simpler, requiring only one person (who won't hear the Doppler shift). The horizontal demo is perhaps more dramatic as the rocket passes by, but requires two people. The rocket has a battery powered, single tone sound source that can be turned on with a switch. There is an instruction manual on shelf O5 which provides full details for either demonstration.