

Abstract Submitted
for the SES17 Meeting of
The American Physical Society

Examining Harmonic Motion in TeachSpins Torsional Oscillator (TO1-A) APRIL GARRITY, ALEXANDER JOYCE, SETHFIELD SMITH, Francis Marion University — TeachSpins Torsional Oscillator (TO1-A) was used to conduct a variety of experiments related to harmonic motion. Various aspects of this were investigated, including the phase relationship between angular position and angular velocity, the dependence of the period of oscillation on the moment of inertia by adding brass quadrants, and the independence of tension on period of oscillation by adjusting the torsion constant of the wire. This device can be used for further experiments including magnetic torque, damping, and driven oscillations.

April Garrity
Francis Marion University

Date submitted: 04 Oct 2017

Electronic form version 1.4