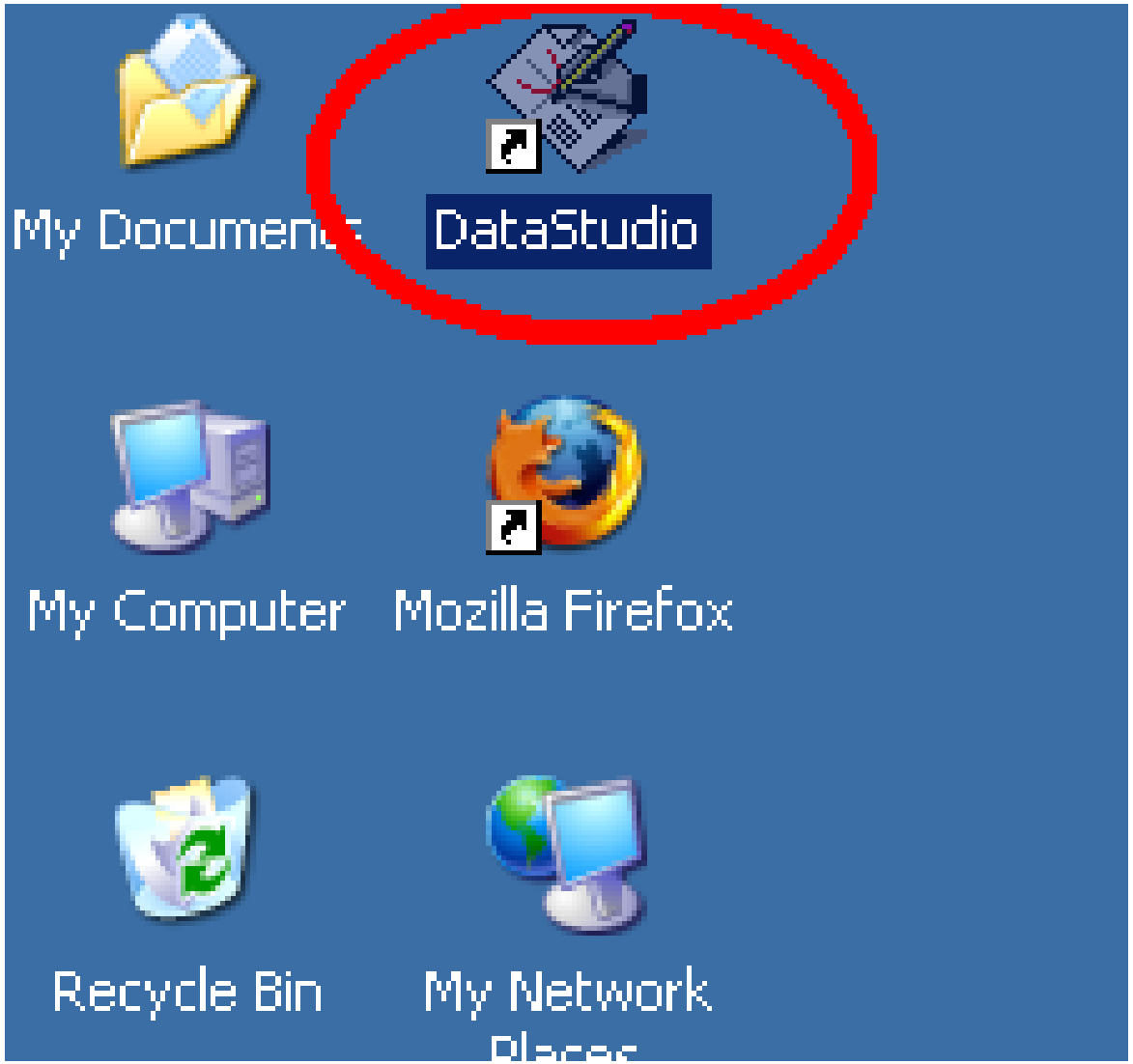
DataStudio setup for rotation with constant acceleration

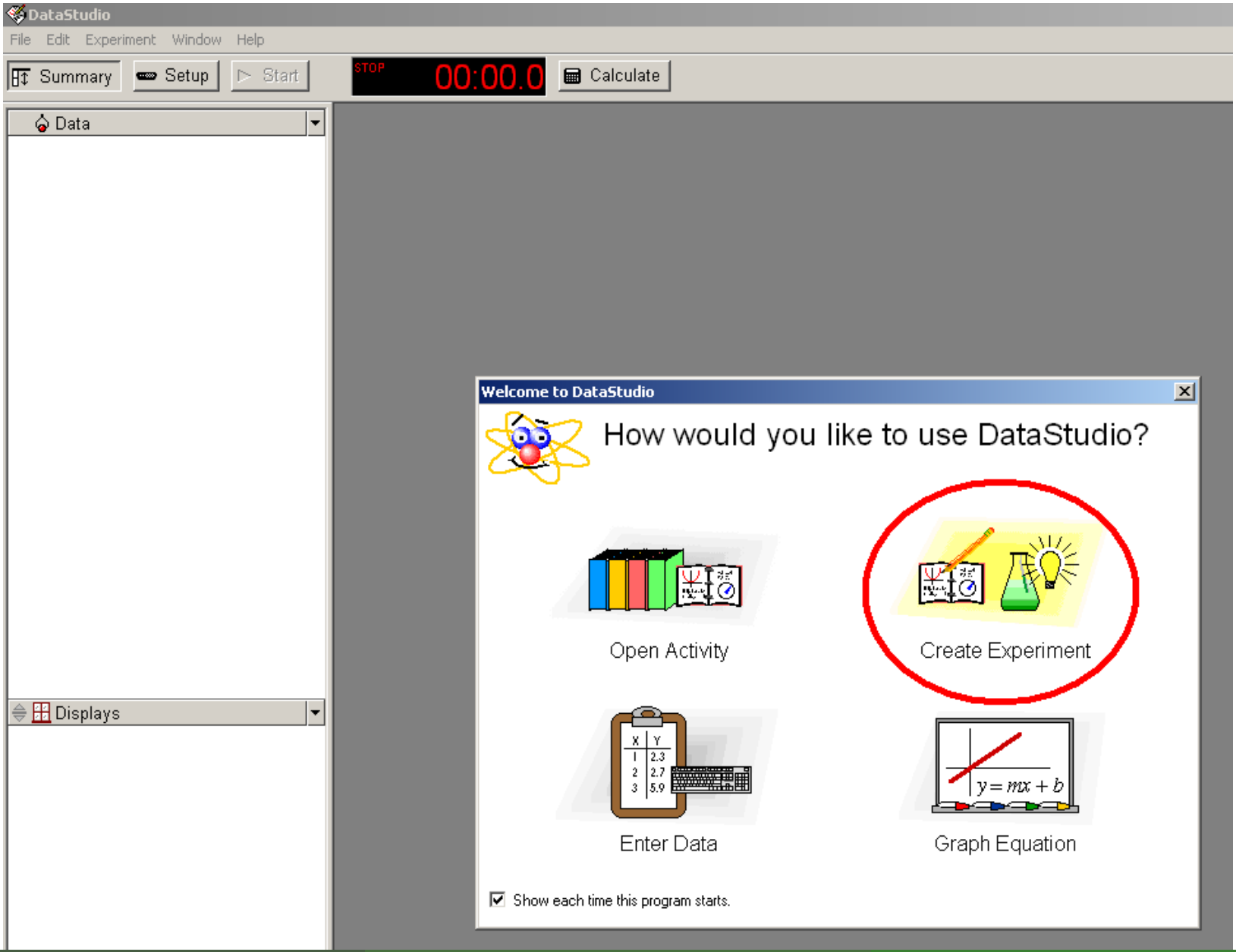
Physics 23 Lab O5

Missouri University of Science and Technology

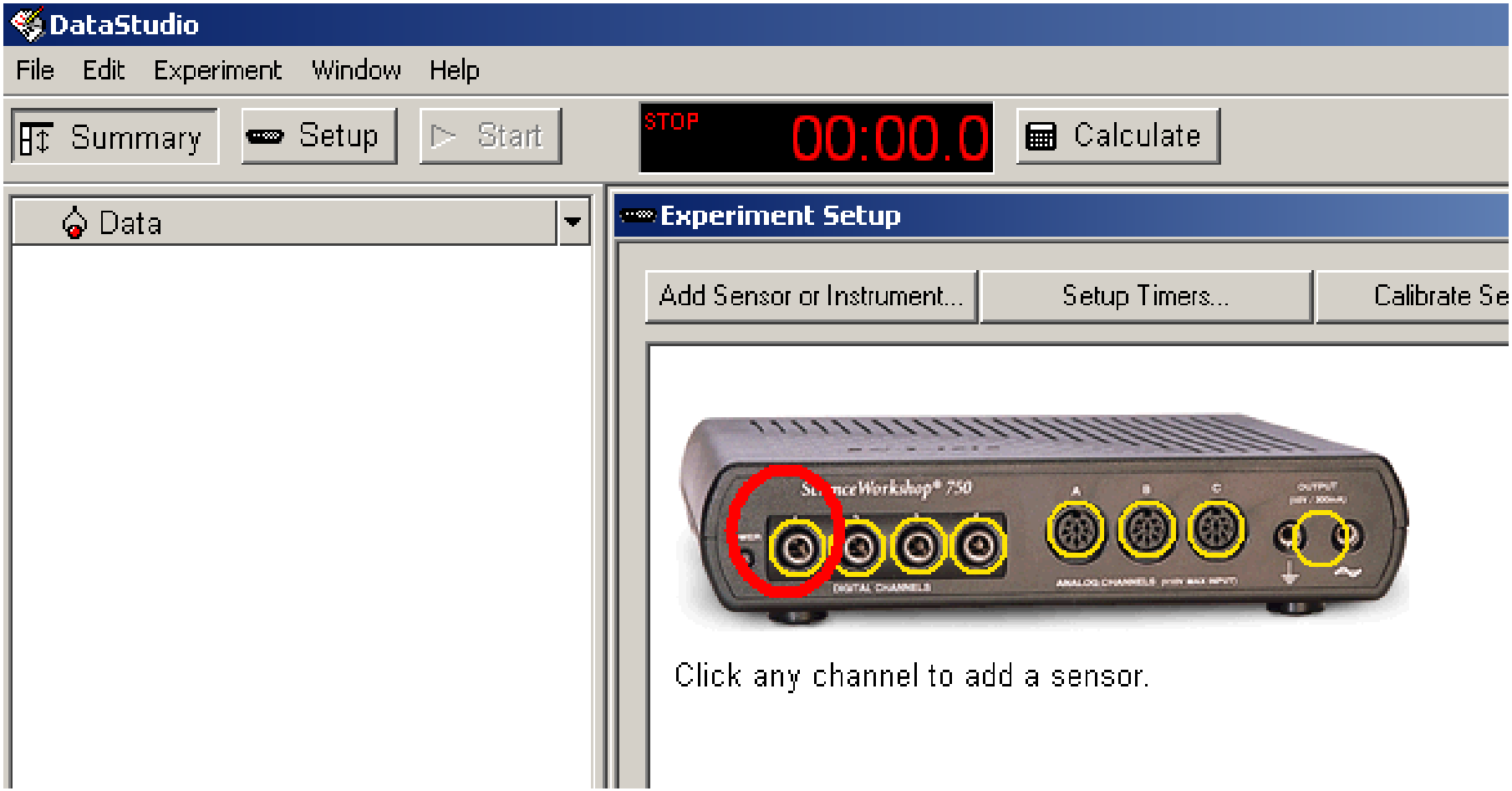
DataStudio icon on desktop



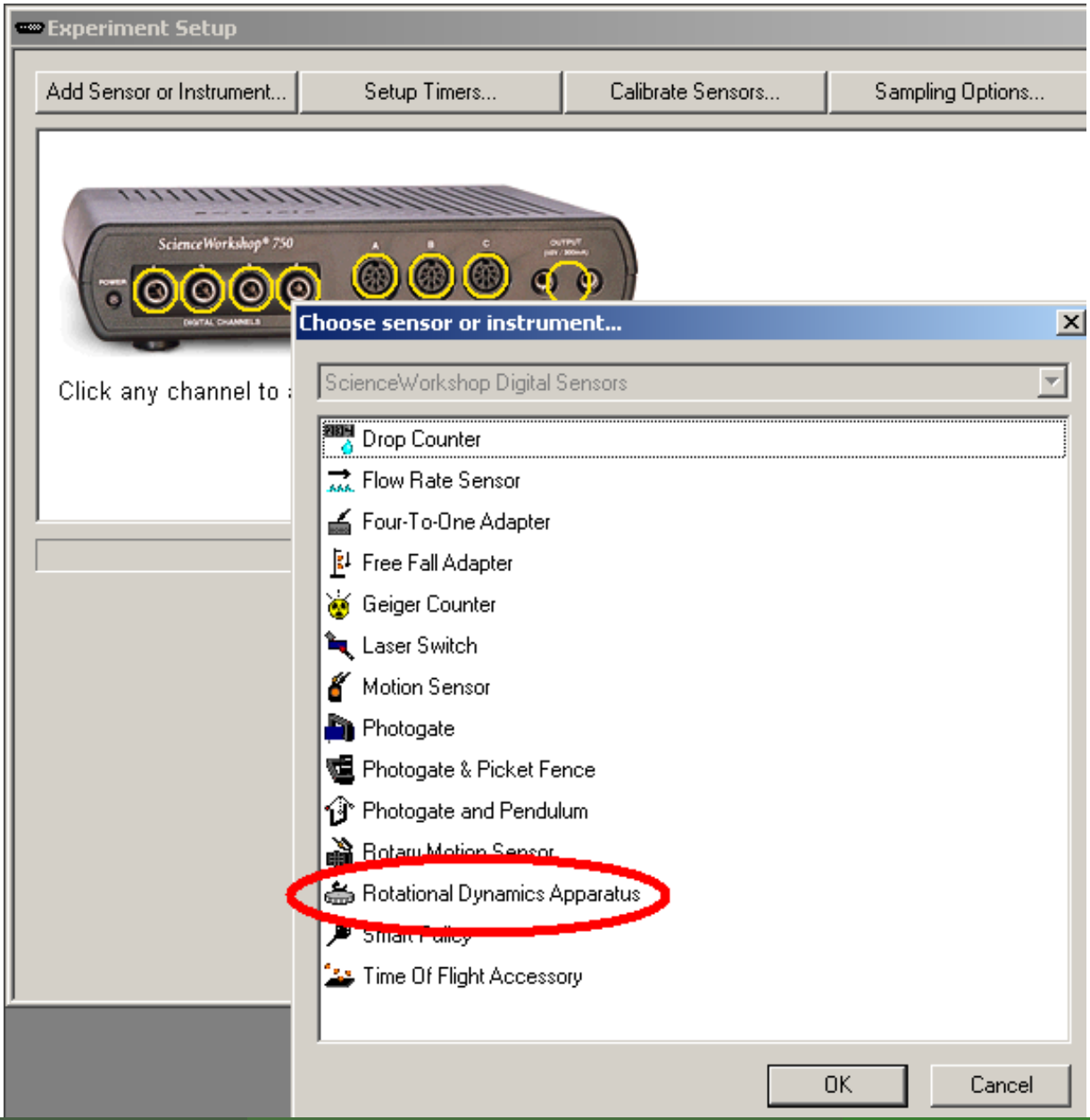
Create Experiment



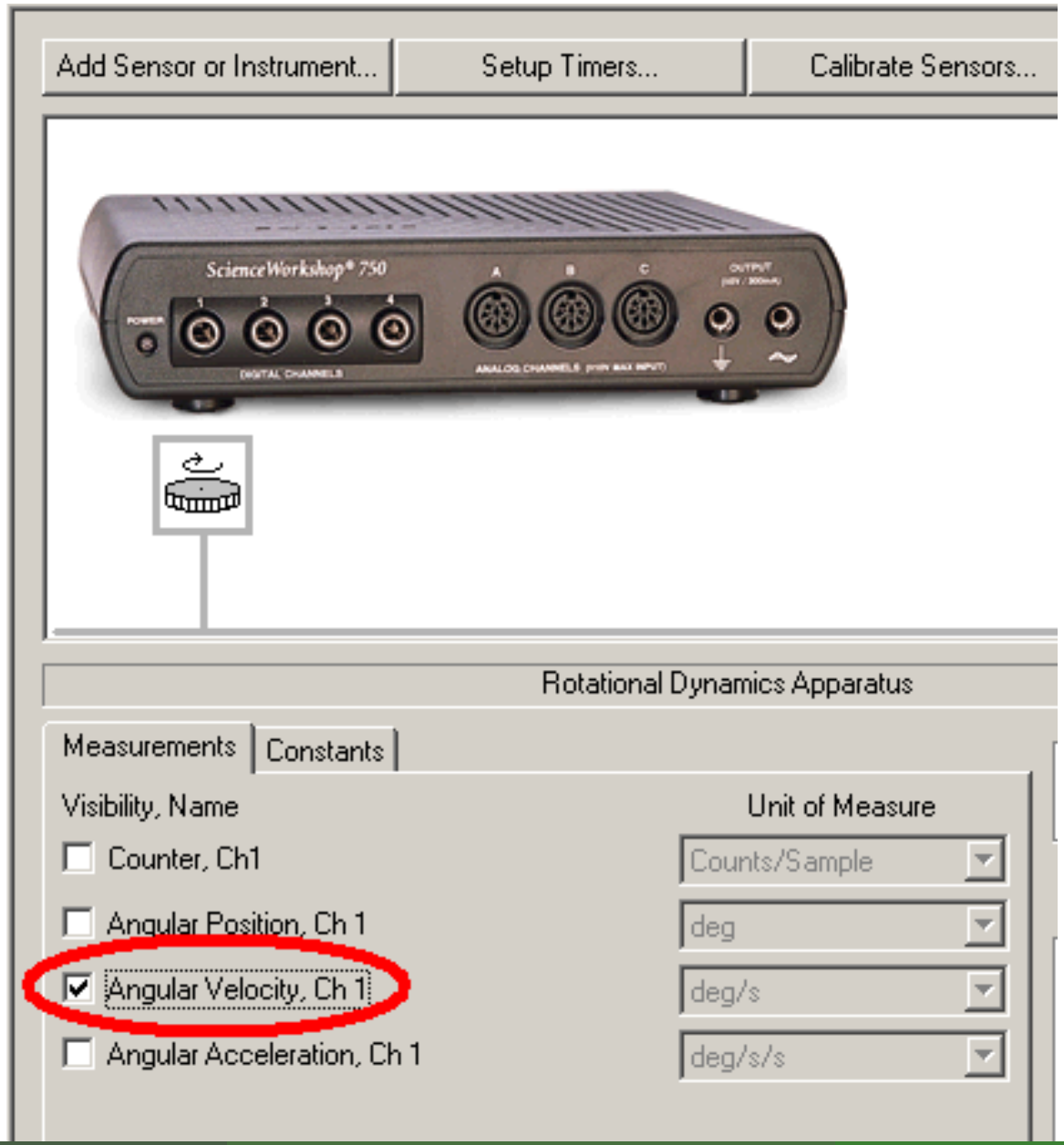
Left-click input 1



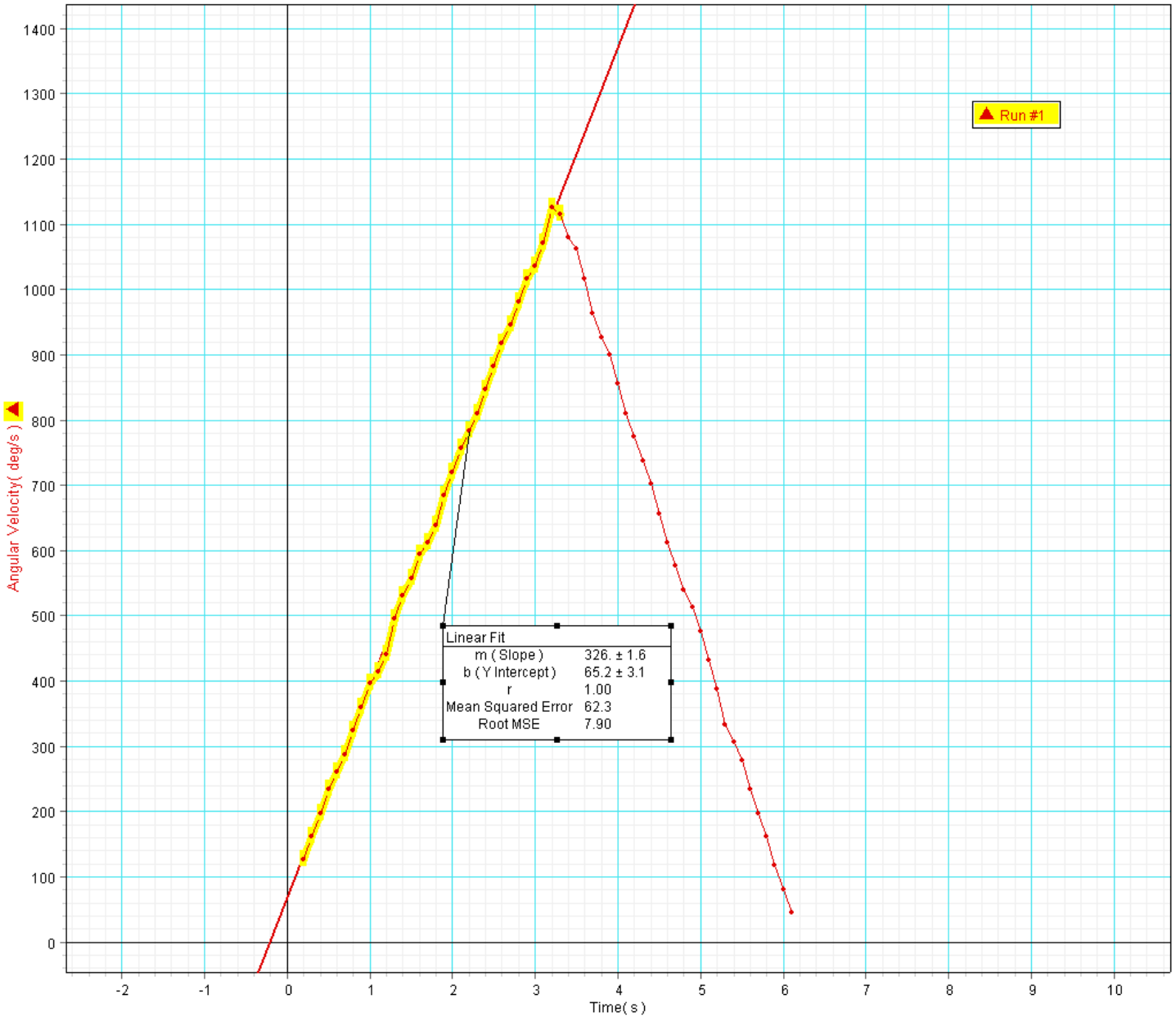
Add Rotational Dynamics Apparatus > OK



Check Angular Velocity only



Add Graph


Run #1
Angular Velocity(deg/s)
Time(s)
Linear Fit
m (Slope) 326. ± 1.6
b (Y Intercept) 65.2 ± 3.1
r 1.00
Mean Squared Error 62.3
Root MSE 7.90