Abstract Submitted
for the TSF15 Meeting of
The American Physical Society

Simulated Damp Harmonic Oscillator[1] ZACHARY NOEL, Lee College — In contemporary physics labs, computational simulations are useful and effective tools that model physical systems where mathematic-conceptual relationships can be emphasized through the use of basic programming. However, there is a very pertinent matter concerning how accurate these simulations are in comparison to more traditional lab settings. I hope to use the example of a damped harmonic oscillator in order to illustrate the differences between simulated and real-world lab environments, and examine the relationship between the trusted axioms of physics concepts versus authentic physical situations.

[1]T-STEM Scholar Recipient

Thomas O'Kuma
Lee College

Date submitted: 08 Oct 2015 Electronic form version 1.4