Abstract Submitted
for the TSS10 Meeting of
The American Physical Society

Physics Laboratory Measurements Workshop Based on LabVIEW and NI ELVIS SANDRA TSO, National Instruments — This hands-on workshop will explore the blended approach of using National Instruments' LabVIEW graphical programming language with computer-based data acquisition devices like the NI ELVIS, to explore modern experimental physics in demonstration experiments and student labs. Learn how LabVIEW can be used to deliver a project-based approach to teaching physics; and how NI ELVIS with a suite of 12 instruments (oscilloscope, function generator, digital multimeter, power supply and more) integrated into a small form factor to provide a hands-on learning system. You will walk away from this workshop with a high-level understanding of LabVIEW's application to physics for teaching and research, the basics of how LabVIEW and NI ELVIS work together, and working knowledge of using NI ELVIS soft front panels to make measurements. Limited to 18 participants - 3 hours - Cost $2.00

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