

Abstract Submitted  
for the APR16 Meeting of  
The American Physical Society

**Calibration of the Advanced LIGO Detectors During the First Observational Run** JEFFREY KISSEL, California Institute of Technology, LIGO SCIENTIFIC COLLABORATION COLLABORATION — The Advanced LIGO detectors have completed their first observational run, between Sep 2015 and Jan 2016, at unprecedented sensitivity. Establishing the accuracy and precision in the calibration of these second-generation detectors has been challenging given the new complexities in the interferometer control system. In this talk we describe these challenges, outline new methods we've employed to meet those challenges, and discuss the resulting magnitude and phase uncertainty in the calibrated output of the detectors.

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Date submitted: 08 Jan 2016

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