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High-Performance PDH Locking with Reconfigurable Instrumentation

Tuesday, June 18, 2024 11:00 AM - 12:00 PM EDT

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Presented by



The Pound-Drever-Hall (PDH) method is ubiquitous in fields requiring laser frequency stabilization, including atomic physics, spectroscopy, and precision measurement. However, since PDH systems are traditionally assembled manually from various components, they often present challenges for researchers due to time constraints and adaptability issues, leading to maintenance difficulties and signal distortion. In this presentation, Liquid Instruments provides a pedagogical introduction to the PDH technique and creates a system using reconfigurable, FPGA-based instrumentation. They combine multiple instruments, including the Moku Laser Lock Box, into a bespoke environment that emulates a real optical system. Presented by [Liquid Instruments](#).



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