

Abstract Submitted  
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**A Laser Lock System using Multiple Overlapping Beams<sup>1</sup>** STUART HARPER, Brigham Young University, BEN FRANCIS, Brigham Young University - Idaho, CHRISTOPHER ERICKSON, DALLIN DURFEE, Brigham Young University — We describe a system wherein the lock of trapping, ionizing, and ion resonance lasers for a Sr experiment are bootstrapped together in a single neutral atom vapor cell. This is done by overlapping beams to optically pump the atoms into the necessary states.

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