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Progress toward injection locking a 795 nm diode laser to a microwave modulated sideband JOHN DELLATTO, MARTIN DISLA, BRIAN KAUFMAN, KEVIN TENG, ANTHONY LIMANI, MATTHEW WRIGHT, Adelphi University — Light from an external-cavity diode laser is locked to an external frequency reference, is passed through an electro-optic phase modulator, and is used to injection-lock a free running diode laser. The resulting power of the injection-locked laser is 200mW. We have generated sidebands from 3GHz to 7GHz and will discuss how the amplitude of the sidebands depends on the power of the microwave signal. We will also discuss our progress toward injection-locking to one of the sidebands.

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