## Abstract Submitted for the MAR12 Meeting of The American Physical Society

Open-frame external cavity diode laser for teaching and research JASEN SCARAMAZZA, TYLER DONATO, ZACHARY BUCK, BRITTANY CURRAN, MICHAEL LIM, Dept. of Physics and Astronomy, Rowan University — We have constructed an open-frame, low-power, tunable external cavity diode laser suitable for both teaching and research purposes. We adapt the design of [1, 2] to an open, 4-rod frame composed entirely of commercially available parts. The laser can be quickly disassembled and reassembled by undergraduate students, while its open architecture provides an intuitive demonstration for students learning about laser physics. The laser will be used for atomic absorption spectroscopy.

- [1] X. Baillard, et al., Opt. Comm. 266, 609 (2006)
- [2] M. Gilowski, et al., Opt. Comm. 280, 443 (2007)

<sup>1</sup>Supported in part by NSF PHY0613659.

Michael Lim Dept. of Physics and Astronomy, Rowan University

Date submitted: 29 Nov 2011 Electronic form version 1.4