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Optogalvanic spectroscopy of lanthanum hyperfine structure¹ AMANDA NELSON, JESSIE HANKES, PATRICK BANNER, STEVEN OLM-SCHENK, Denison University — Optogalvanic spectroscopy is a sensitive technique to measure optical transitions of atoms and ions produced in a high voltage discharge. Advantages of this technique include a comparatively simple optical setup and the ability to interrogate excited state transitions. Here, we use optogalavanic spectroscopy in a hollow cathode lamp to measure the hyperfine spectrum of several transitions in lanthanum. Hyperfine coefficients are determined for the corresponding energy levels and compared to available previous measurements.

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Steven Olmschenk Denison University

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