

Abstract Submitted  
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**Magnetotransport Properties of Co<sub>2</sub>FeAl Nanowires**<sup>1</sup> KESHAB R. SAPKOTA, P. GYAWALI, BISHNU DAHAL, R. DULAL, I.L. PEGG, JOHN PHILIP, The Catholic University of America — Co<sub>2</sub>FeAl (CFA) nanowire (NW) exhibit interesting magnetic behavior with temperature, which arises from the granular structure.<sup>2</sup> To understand the magnetotransport properties, single CFA NW devices were fabricated using standard electron beam lithography. The magnetoresistance measurements of single CFA NW device were carried out at different temperatures. The magnetoresistance measurements show oscillations as a function of applied external magnetic field.

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<sup>2</sup>Keshab R Sapkota *et.al*, J. Appl. Phys. Vol. **111**, Issue 12, 123906 (2012); <http://dx.doi.org/10.1063/1.4729807>

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