

Abstract Submitted  
for the MAR17 Meeting of  
The American Physical Society

**Structural properties of iron and nickel mixed oxide nano particles.**<sup>1</sup> SUNIL DEHIPAWALA, PUBUDU SAMARASEKARA, None, HARRY GAFNEY, Queens College of CUNY — Small scale magnets have very high technological importance today. Instead of traditional expensive methods, scientists are exploring new low cost methods to produce micro magnets. We synthesized thin film magnets containing iron and nickel oxides. Films will be synthesized using sol-gel method and spin coating technique. Several different precursor concentrations were tested to find out the ideal concentrations for stable thin films. Structural properties of iron and nickel oxide particles were investigated using X-ray absorption and Mossbauer spectroscopy.

<sup>1</sup>PSC-CUNY

sunil Dehipawala  
None

Date submitted: 20 Nov 2016

Electronic form version 1.4