Magnetic properties of $\text{Rb}_2\text{Co}_4[\text{Fe(CN)}_6]_k\cdot n\text{H}_2\text{O}$ Prussian blue nanoparticles\(^1\) N.E. ANDERSON, J.-H. PARK, M.W. MEISEL, Dept. of Physics, Univ. of Florida, J. LONG\(^2\), F. FRYE, D.R. TALHAM, Dept. of Chemistry, Univ. of Florida — Magneto-optically active Prussian blue materials are of considerable interest because of their many possible applications.\(^3\) Nanoparticles of $\text{Rb}_2\text{Co}_4[\text{Fe(CN)}_6]_k\cdot n\text{H}_2\text{O}$ have been synthesized, and TEM images indicate that clusters of 5 nm particles were obtained. Furthermore, the particles appear to show weak photo-induced effects similar to those reported in bulk materials. Here, we present preliminary data to illustrate the magnetic characteristics of these new materials. J. Long was a NSF-REU participant (NSF CHE-0353828).

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