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**Magnetic properties of selected Prussian Blue Analogs (PBAs)**

MANJITA SHRESTHA, SOURAV ADAK, New Mexico State University, HEINZ NAKOTTE, LUKE L. DAEMEN, MONIKA HARLT, VIVIEN ZAPF, Los Alamos National Laboratory — Prussian Blue Analogs consists of  $MC_6$  and  $AN_6$  octahedra connected by cyanide ligands (M, A= metals). They typically crystallize in cubic structures. We have studied temperature and field dependence of the magnetization and the susceptibility of selected Prussian Blue Analogs such as hexacyanocobaltates, -ferrates and -chromates. All compounds exhibit modified Curie–Weiss behavior in the paramagnetic region. The observed effective moments of those compounds were compared with the ones of the respective free-ion values. Furthermore, we find evidence that a few of the compounds exhibit a transition to long-range magnetic order at low temperatures.

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