Magnetic and Transport Properties of RCoIn$_5$ (R=Pr,Nd) and RCoGa$_5$ (R=Tb-Tm) JACOB HUDIS, Department of Physics and Astronomy, Johns Hopkins University, RONGWEI HU, Department of Physics, Brown University/Brookhaven National Lab, COLLIN BROHOLM, Department of Physics and Astronomy, Johns Hopkins University, V.F. MITROVIC, CEDOMIR PETROVIC, Department of Physics, Brookhaven National Lab — We report on magnetic and transport properties of single crystals of the light rare earth containing series of compounds RCoIn$_5$ (R=Pr,Nd) and heavy rare earth containing series RCoGa$_5$ (R=Tb-Tm). All the compounds crystallize in the tetragonal HoCoGa$_5$ crystal structure and are very good metals with small defect scattering at low temperatures. NdCoIn$_5$ and members of the RCoGa$_5$ series with large de Gennes factors order antiferromagnetically.

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