## INFLUENCE OF RUTHENIUM DOPING ON ELECTRIC AND MAGNETIC PROPERTIES OF THE PEROVSKITE COMPOUND SYSTEM CA0.6PR0.4MN1-YRUYO3 (Y = 0, 0.03, 0.05, 0.07)

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## TÓM TẮT:

We study the influence of ruthenium doping on electric and magnetic properties of Ca0,6Pr0,4Mn1-yRuyO3 (y = 0,0; 0,03;0,05; 0,07) perovskite prepared by solid state reaction method. The ZFC and FC thermomagnetic, magnetization measurements indicate the increasing tendency of ferromagnetism due to ruthenium doping. The charge ordering phenomenon observed at TCO ~ 291K in Ca0,6Pr0,4MnO3 sample. Temperature dependence of resistivity cure is depressed with increasing Ru amount. The variable range hopping nature of sample's conductivity is discussed.