INFLUENCE OF THE Sb CONCENTRATION ONTO THE MAGNETORESISTIVITY IN THE SPINEL COMPOUNDS $CuCr_{2-X}Sb_XS_4$ (WHERE X = 0.3, 0.4, 0.5)

J. Krok-Kowalski[a], J. Warczewski[a], L.I. Koroleva[b], K. Krajewski[a], P. Gusin[a], H. Duda[a], A. Pacyna[c], T. Mydlarz[d], S. Matyjasik[d]

[a]University of Silesia, Institute of Physics, ul. Uniwersytecka 4, 40007 Katowice, Poland; [b]M.V. Lomonosov Moscow State University, 119899 Moscow, Russia; [c]Institute of Nuclear Physics, ul. Radzikowskiego 152, 31342 Kraków, Poland; [d]International Laboratory of High Magnetic Fields and Low Temperatures, ul. Gajowicka 95, 53529 Wrocław, Poland

Powder samples were obtained. All the samples have spinel structure. The magnetization, magnetic susceptibility and electrical conductivity were measured in the temperature range from liquid helium to 400 K. For the magnetoresistivity measurements both stationary fields up to 14 T and pulsed fields of 38 T were applied. It turns out that the magnetoresistivity depends on Sb concentration x, assuming at low temperatures negative values. On the other hand its absolute values exhibit a maximum at about x=0.4.

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