INFLUENCE OF CONDITIONS OF SINGLE CRYSTALS GROWTH ONTO THE MAGNETIC PROPERTIES OF $HgCr_2Se_4$

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Magnetic susceptibility was measured in the temperature range of 4.2 K ÷ 125 K and for different frequencies of the alternating magnetic fields. For the single crystal samples prepared in different conditions the real part of the magnetic susceptibility does almost not depend on the frequency of the alternating magnetic fields applied, whereas the imaginary part does depend. The statistical estimation with the use of the Gaussian distribution of the influence of defectiveness onto the magnetic coupling in the samples under investigation was carried out.

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