MANIFESTATION OF SPIN-GLASS-LIKE BEHAVIOR IN THE ORGANOMETALLIC MAGNET

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9.7 cm

Ac susceptibility and dc magnetization of the organometallic magnet $Na[FeO_6(C_{10}H_8N)_3]$ have been studied in temperature range of 4.2–240 K, in external magnetic field up to 90 kOe. Some peculiarities of magnetic behavior which are characteristic of spin-glasses, e.g. cusps in the susceptibility and ZFC magnetization appearing at the freezing temperature, a field–dependent irreversibility between the FC and ZFC magnetization, and dependencies of the T_{cusp} temperature on the frequency and magnetic field strength, were observed at low temperatures.

13.4 cm

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