

Dipole glass phase in ferro-antiferroelectric mixed systems

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The problem of microscopic description of dipole glass phase in ferro-antiferroelectric mixed systems is discussed. The dipole glass order parameter as well ferroelectric and antiferroelectric order parameters are constructed on the base of pair and single correlation functions for nearest neighbours particles [1].

The phase under investigation take place at low temperature for intermediate values of concentration and change the behaviour of it's pair distribution function in several points [2]. Phase diagram and some thermodynamic functions of mixed system are obtained and analyzed.

1. Korynevskii N.A., Solovyan V.B., *Ferroelectrics* **316** 125 (2005).
2. Korynevskii N.A., Solovyan V.B., *Phase Transitions* **80** 55 (2007).