

ON THE THEORY OF THE QUANTUM MAGNETIC  
PHASE TRANSITIONS INDUCED BY PRESSURE  
IN STRONGLY ANISOTROPIC MAGNETICS

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S u m m a r y

It is shown that the hydrostatic pressure may induce quantum phase transitions from a magnetoordered state into a singlet state in magnetic dielectrics with a high single-ion anisotropy. These phase transitions proceed as magnetic phase transitions of the displacement type. It is shown that such transitions can be described by the Landau theory, in which the order parameter is the basic singlet polarization.