

TO THE THEORY OF MAGNETOSTRICTION
AT QUANTUM PHASE TRANSITIONS
IN VAN VLECK FERROMAGNETS

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S u m m a r y

A stimulated magnetostriction of an easy-plane singlet one-sublattice magnet in a magnetic field directed along its axis of hard magnetization has been considered. It has been shown that the magnetostriction in such a magnetic system is governed by a quantum phase transition belonging to displacement magnetic phase transitions induced by an external field. The amplitude of the stimulated magnetostriction has been demonstrated proportional to the field strength.