

JETP Letters 2011 vol.94 N1, pages 68-72

Discovery of the classical Bose-Einstein condensation of magnons in solid antiferromagnets

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Abstract

Results of experiments in which the Bose-Einstein condensate of magnons is created in the CsMnF₃ easy-plane antiferromagnet in a system with coupled nuclear-electron precession with dynamical frequency shift are presented. This condensate is similar to the Bose-Einstein condensate of magnons in superfluid ³He-A in aerogel. © 2011 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S0021364011130066>
