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Magnon BEC in antiferromagnets with Suhl-Nakamura interaction

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Abstract

From atomic physics one knows the phenomenon of Bose-Einstein condensation (BEC), where a macroscopic ensemble of particles occupy coherently a single state. Similar phenomena were observed for different types of quasiparticles in condensed matter. Here we present the results of investigations on the BEC of elementary magnetic excitations - magnons - in antiferromagnets with a dynamical frequency shift. © 2014 Springer Science+Business Media New York.

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Keywords

BEC of quasi-particles, Nonlinear NMR, Spin superfluidity