



CONDENSED MATTER THEORY SEMINAR

Impact of the spin-wave interaction in ferromagnets - a systematic effective field theory analysis

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Abstract:

We analyze the low-temperature properties of ferromagnets in three, two and one space dimensions up to three-loop order in the effective expansion, i.e., beyond the accuracy of any previous results obtained with conventional condensed matter methods. The focus is on the manifestation of the spin-wave interaction in the (spontaneous) magnetization.