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Non perturbative physics in a Magnetic Field

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Abstract content

Summary

Non-Perturbative Quantum Field Theory has played an important role in the study of phenomena where a fermion condensate can appear under certain physical conditions. The familiar phenomenon of electric superconductivity, the color superconductivity of very dense quark matter, and the chiral symmetry breaking (χSB) of low energy effective chiral theories are all examples of that sort. Often one is interested in the behavior of these systems in the presence of an external magnetic field. In this talk I will review the effects of an external magnetic field on non-perturbative theories with either fermion-fermion or fermion-antifermion condensates.

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