

ON THE QUANTUM-FIELD DESCRIPTION
OF MANY-PARTICLE FERMI SYSTEMS
WITH SPONTANEOUSLY BROKEN
SYMMETRY

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S u m m a r y

A quantum-field approach for describing many-particle Fermi systems at finite temperatures and with spontaneously broken symmetry has been proposed. A generalized model of self-consistent field (SCF), which allows one to describe the states eligible for this system with various symmetries, is used as the initial approximation. A perturbation theory has been developed, and a diagram technique for temperature Green's functions (GFs) has been constructed. The Dyson's equation for the self-energy and vertex parts has been deduced.