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The Influence of the External Magnetic Field on the Electronic Density of States of Quasi-1D System in the Mixed Phase of Superconductivity and Spin Density Wave

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A method for calculating the electronic density of states in the mixed phase: superconductivity (SC) and the magnetic state of the spin-density wave (SDW) is proposed. The main mechanism for the appearance of this phase is considered the doping of the system and allowance for the lattice structure (Umklapp processes). The effect of an external magnetic field and the possibility of increasing the superconducting transition temperature T_c are analyzed.