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**Correlation effects in disordered conductors with spin accumulation** ALEXANDER ZYUZIN, University of Basel — We consider the effect of electron-electron interaction on the density of states of disordered thin film paramagnetic conductor in the presence of spin accumulation and magnetic field. We assume a mechanism of electrical spin injection from a ferromagnet into a paramagnet as a particular realization of the spin accumulation. We show that interaction correction to the electron density of states of the paramagnet exhibits singularities at energies corresponding to the difference between chemical potentials of electrons with opposite spins. The correction to the conductivity of the paramagnet in the metallic region as well as in the hopping region in the presence of spin accumulation is calculated.

Alexander Zyuzin  
University of Basel

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