## Conductivity of disordered ferromagnetic monoatomic film

A. Paja and B.J. Spisak

Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, A. Mickiewicza 30, 30-059 Kraków, Poland

Electron transport in the plane of a monoatomic metallic layer with non-zero magnetization is considered. The material is represented by a two-dimensional set of disordered potentials which also posess spins aligned along one axis but not necessarily oriented in one direction. Such system can be treated as a two-component alloy. The effective cross-section for conduction electrons is calculated. The total conductivity is obtained within two-current model.