Contribution Title:	RADIATIVE CORRECTIONS TO THE MASSES OF COMPOUND PARTICLES IN THE ISING FIELD THEORY
Authors:	S. B. Rutkevich
Presenting author:	Rutkevich S. B.
Affilation:	Institute of Solid State and Semiconductor Physics, Minsk, Belarus
E-mail:	rut@ifttp.bas-net.by
Invited speaker:	
YRS seminar:	NO

The mass spectrum $M_n(h)$ of elementary excitations in the two-dimensional ferromagnetic Ising field theory in a weak external magnetic field h is studied. In the leading order in h, these excitations can be viewed as bound states of two confined fermions, which attract one another with a long-range linear potential. Multi-fermion fluctuations with four, six, ... fermions also contribute to the elementary excitation wave function leading to the corrections to the bound-state masses $M_n(h)$ in the higher orders in h. We calculate such multi-fermion contributions to the masses $M_n(h)$, which arise from the regular radiative correction to the kernel of the Bethe-Salpeter equation in the third order in the magnetic field h.