Abstract:Manganese alloy systems, which have been studied experimentally, show a host of antiferromagnetic phase transitions. Developing a linearized theory for the clas&not;sical Heisenberg model, we can solve the local distortion of model of spins around an impurity in non-collinear antiferromagnet. Since the alloying removes the degeneracy in non-collinear magnets, this theory is useful. Looking at the case of γ-Mn alloys, especially Mn3Pt, we can predict the experimentally observed phase transitions caused by alloying.