

Abstract

In this talk, I will present a minimal model that links dark matter and neutrino masses. The model includes a low energy sector as well as a high energy one. The low energy sector results in various observable effects such as deviation of the branching ratio of the kaon decay into charged lepton and missing energy from the standard model prediction. The high energy sector can show up at the LHC. In principle, the same couplings that give rise to neutrino mass matrix and determine its flavor structure can be measured by studying the decay modes of the heavy particles at the LHC. I shall discuss the possibility of discovering the model at the LHC and measuring its parameters,