Contribution ID: **109** Type: **Poster**

The Higgs decay in the B-L SSM

In the past decades the Standard Model(SM), have got tremendous success. But there are still questions beyond the SM. Such as the Dark matter, muon g-2, the mass of the neutrinos etc. Thus we automatically think that there is a model beyond the SM will resolve these problems. The minimal super symmetry model has been talked a lot. In this work I will investigate some questions using the B-L SSM instead of the MSSM.

The B-LSSM is a expanding of the SUSY Models, where B stands for the baryon number While the L is the Lepton number. I will talk about this model in detail in the first section.The Low energy theorem is discussed in the next section. and we also use the pinch technique to compute the vertex contributions. The box diagram contribution is ignorged cause in the one loop order the box contributions is zero.

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Session Classification: Registration