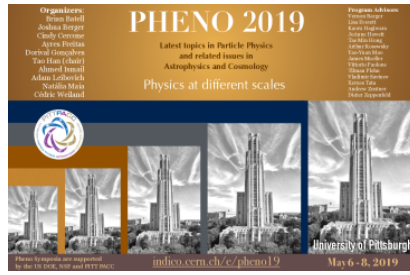


Phenomenology 2019 Symposium



Contribution ID: 693

Type: **parallel talk**

Di-Higgs Production in SUSY Models

Tuesday 7 May 2019 15:30 (15 minutes)

I will discuss the di-Higgs production via gluon fusion within the context of Minimal Supersymmetric Standard Model (MSSM) and Next-to-Minimal Supersymmetric Standard Model (NMSSM). The calculation is based on the analytical expression of the leading order Feynman amplitudes (which includes both quark and squark loops), and therefore, both off-shell effects and interference between resonant and non-resonant contributions are accounted for. We choose the parameter space that is allowed by the current experimental constraints, and also relevant to the LHC experiments in the near future. I am going to show the parameter space where the di-Higgs production can be enhanced significantly in each case.

Summary

Author: NG, Yu Hang (University of Nebraska-Lincoln)

Presenter: NG, Yu Hang (University of Nebraska-Lincoln)

Session Classification: Higgs II