## Muon Collider Full Simulation Studies

Shivani Lomte

July 22, 2021

## Status

- -The default reco steering files had Tracker Hit information stored in the ntuples, but Calorimeter Hit information was absent.
- -Successfully made changes to the steering files to include this information.
- -Working on calo hit time and energy plots for HH signal overlaid with BIB.

## Next Steps:

- -Generate large statistics. (Interactively: 30mins for 5 HH events with 0.1% BIB).
- -Study jet reconstruction performance of  $H\!H \to b \bar b b \bar b$  process with and without BIB.
- Q. Need jet tagging info? These branches are not filled properly!