Overview

Simulated with Madgraph + Pythia + Delphes

- Process: mu+ mu- > H5z vm vm $^{\sim}$, (H5z > w+ w-, w+ > j j, w- > j j)
- 100k events
- Mass = (500, 1000, 2000, 3000) GeV
- Same delphes card, etc. as for EFT study
- Similar event selection as for nunu channel of EFT study
- 6 TeV CM energy

September 6, 2022

Neutral Heavy Higgs Limits

- Considered 3 TeV heavy higgs sample with 6 TeV
- POI: neutral heavy higgs signal strength
- No nuisance parameters, no systematics
- Limits found using TReXFitter
- Expected upper limit (single bin): 4e-3
- Expected upper limit (bins shown on right): 6e-4
 - Expanded first bin to avoid it being empty for ggWW.

