



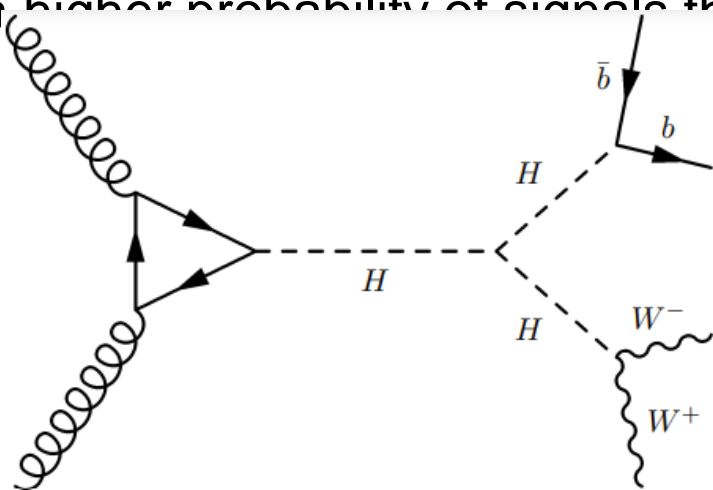
DiHiggs Production

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Abstract

I'll be analyzing simulation data on gluon fusion when the diHiggs decays into $bbWW$ particles. When looking at data it is hard to tell the difference between signal and background noise; however, you can make analysis bins that have a higher probability of signal than background





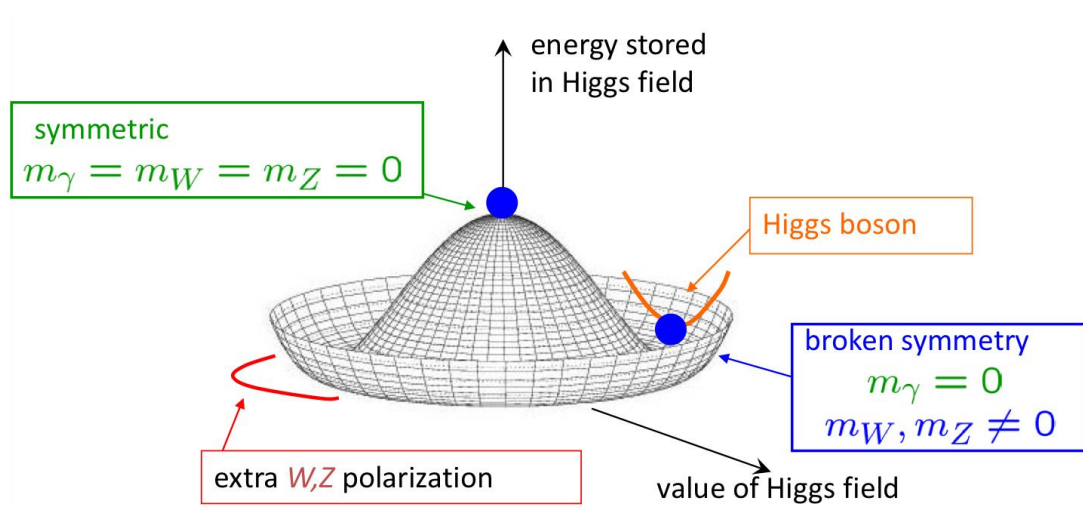
Overview

- Hunting for potential
- Goals



Hunting for potential

The slope of the Higgs potential (Sombrero) affects the production of the DiHiggs if the shape is different from what we think based on the current standard model than the the beta (boost) of the DiHiggs will be different





Goals

To get comfortable working with

- 4-vectors
- Analyzing end-tuples
- Making plots