



Combine Tutorial

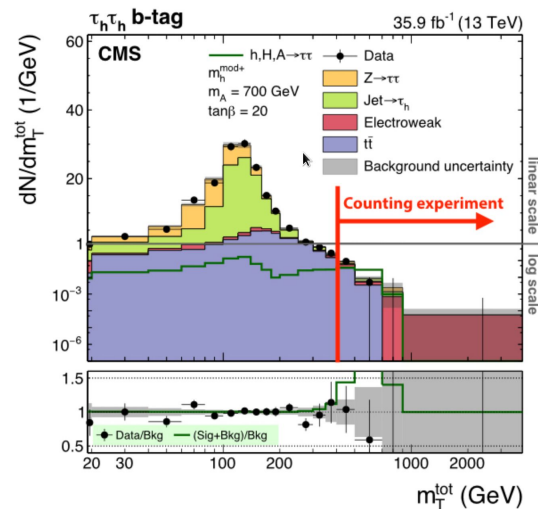
Terascale Statistics School
Kyle Cormier, Aliya Namigova, Nick Wardle

Introduction

Overview

Search for a heavy neutral higgs,
Which decays to $\tau\tau$

1. Simple Counting Experiment
2. Shape Based Analysis
3. Adding Control Regions
4. Physics models – beyond a single
Signal strength parameter



Overview

Search for a heavy neutral higgs,
Which decays to $\tau\tau$

- Limit Setting
- Significance Testing
- Asymptotic Calculations
- Toy-based Calculations
- Parameter Extraction
- Fit Debugging
- Fit Plotting
- Nuisance Parameter Checks
- Multi-Dimensional Likelihood Scans

