

Higgs-LAPP meeting

Elisabeth Petit



Laboratoire d'Annecy-le-Vieux
de Physique des Particules

21st of May 2013

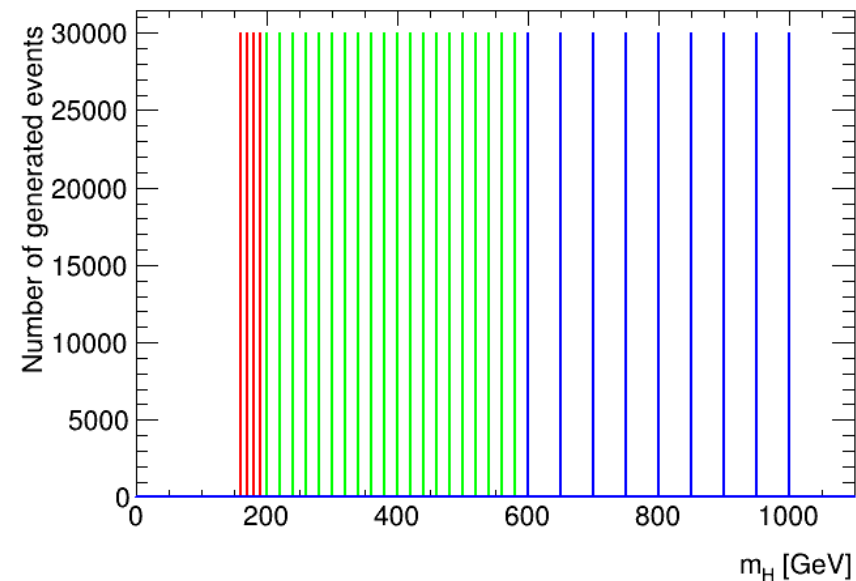




Limit cross-section

◆ Samples at high mass started!

- narrow peak approximation



◆ Efficiency factors (C_H) at high mass → Jessica

◆ Background

- low mass (Drell-Yan) → Rémi
- high mass → Elisabeth

◆ Signal modelling → Zuzana

◆ Do we want to compare to models such as Two Higgs Doublets Model?

- see for example: <http://arxiv.org/abs/1304.0028>



Differential cross sections

- ◆ Meeting last Friday (<https://indico.cern.ch/conferenceDisplay.py?confId=252639>)
 - use of relative p_T cuts (because of p_T^W)
 - 5 variables to be measured: p_T^H , $n\text{Jets}$, p_T^{j1} , $\Delta\phi(j;j)$, p_T^{Wjj}
 - use of iterative Bayesian unfolding, even if completely unnecessary here (note from me)
- ◆ Plan to approve it for EPS (ie approval in 2 weeks)
- ◆ Do we want to participate more on this?