Weekly meeting

Xiaohu Sun

25-01-2016

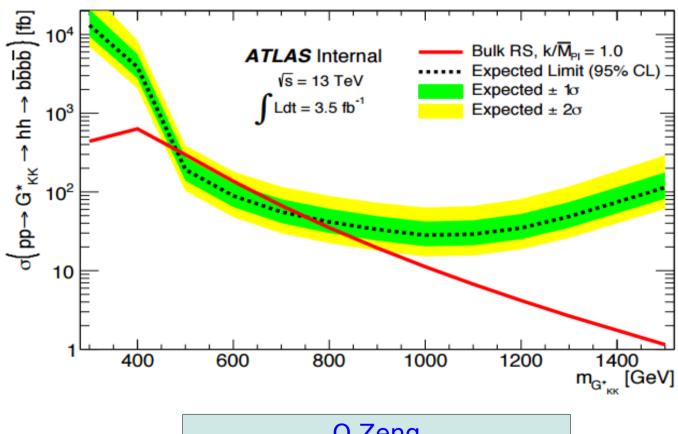
IHEP

List

- WWWW pheno paper
 - Update latest results from Maosen
 - Sent around internally
- [URGENT] 基金结题 2015
 - Finalizing relevant paper
- HH workshop
 - Delivered a dedicated combination talk
 - Mainly about what need doing etc.
 - bbyy and bbbb workspaces can come this week with full systematics
- Zy→jets+y
 - Continued with HGam1D dumper, slow, some btagging parts are missing in EXOT6 DAOD
 - Maybe better to contact Yanping or Giovanni M

Bbbb (resolved analysis)

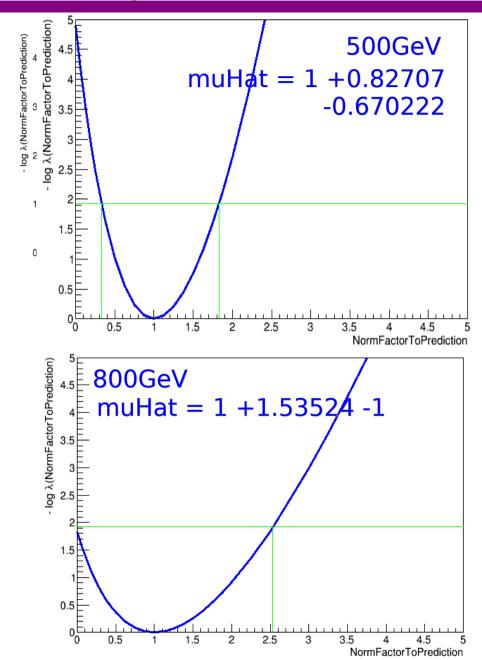
- Have bbbb workspace without syst in hands
- First of first, double check the workspaces with PLR



Q Zeng
Expected limits with only stats
Using graviton models c=1.0

PLR scan (original bbbb)

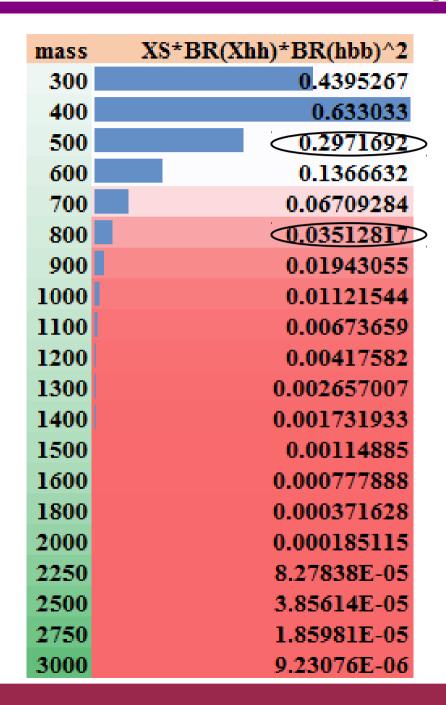
- Fit to asimovData:
 - signal is modeled with graviton model (c=1.0);
 - POI is the signal strength (mu) on XS*BR(Xhh)*BR(hbb)^
- Scan PLR, get expected curve against mu (central at exactly 1)

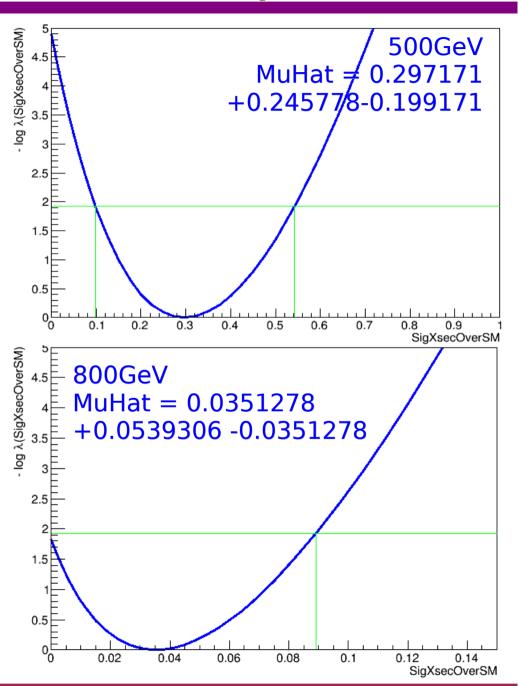


Scale bbbb workspace - Step 1

- Scale POI in workspace
 - From mu on top of XS*BR(Xhh)*BR(Hbb)
 - To absolute value of XS*BR(Xhh)*BR(Hbb)

Scale bbbb workspace - Step 1

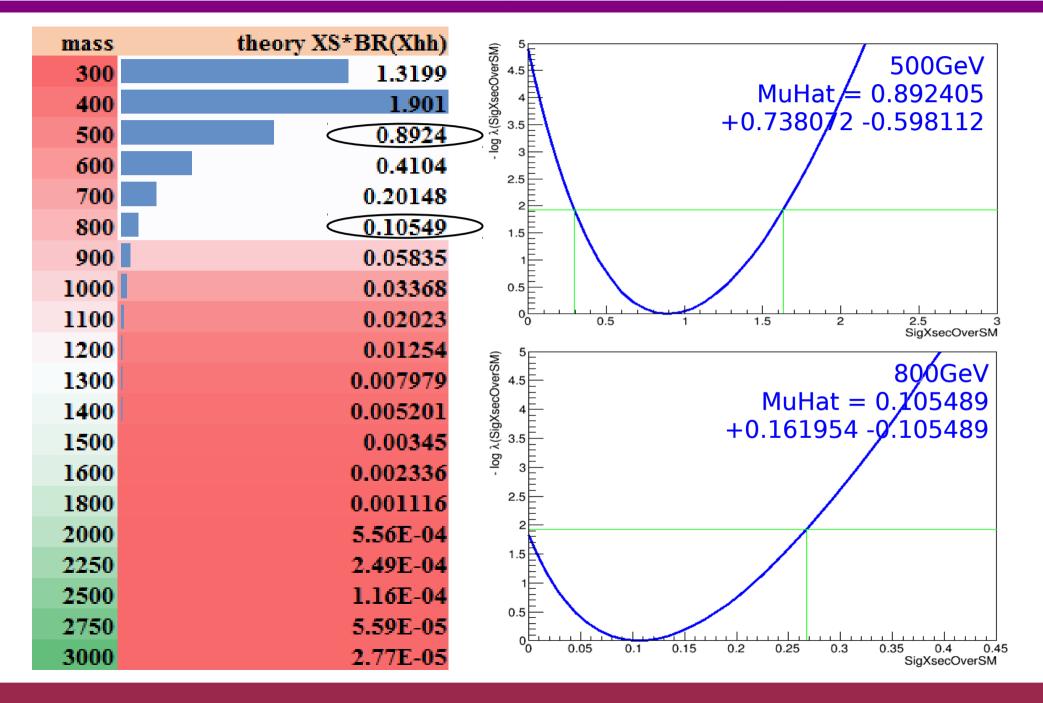




Scale bbbb workspace – Step 2

- Scale POI in workspace
 - From absolute value of XS*BR(Xhh)*BR(Hbb)
 - To absolute value of XS*BR(Xhh)

Scale bbbb workspace – Step 2



Current workspace

- Scale POI in bbbb, ready with 300-1500, but only with graviton model and without systematic uncertainties; They promised to pass workspaces with uncertainties this week; Their goal is Moriond
- bbyy promised to pass workspaces this week; also aiming at Moriond
- GRAND heavy Higgs searching combination will go for post-summer time scale; kick-off meeting in Jan

Backup

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