

FCNC Meeting

Brussels-Strasbourg-Seoul, 30/10/2014

Synchronization

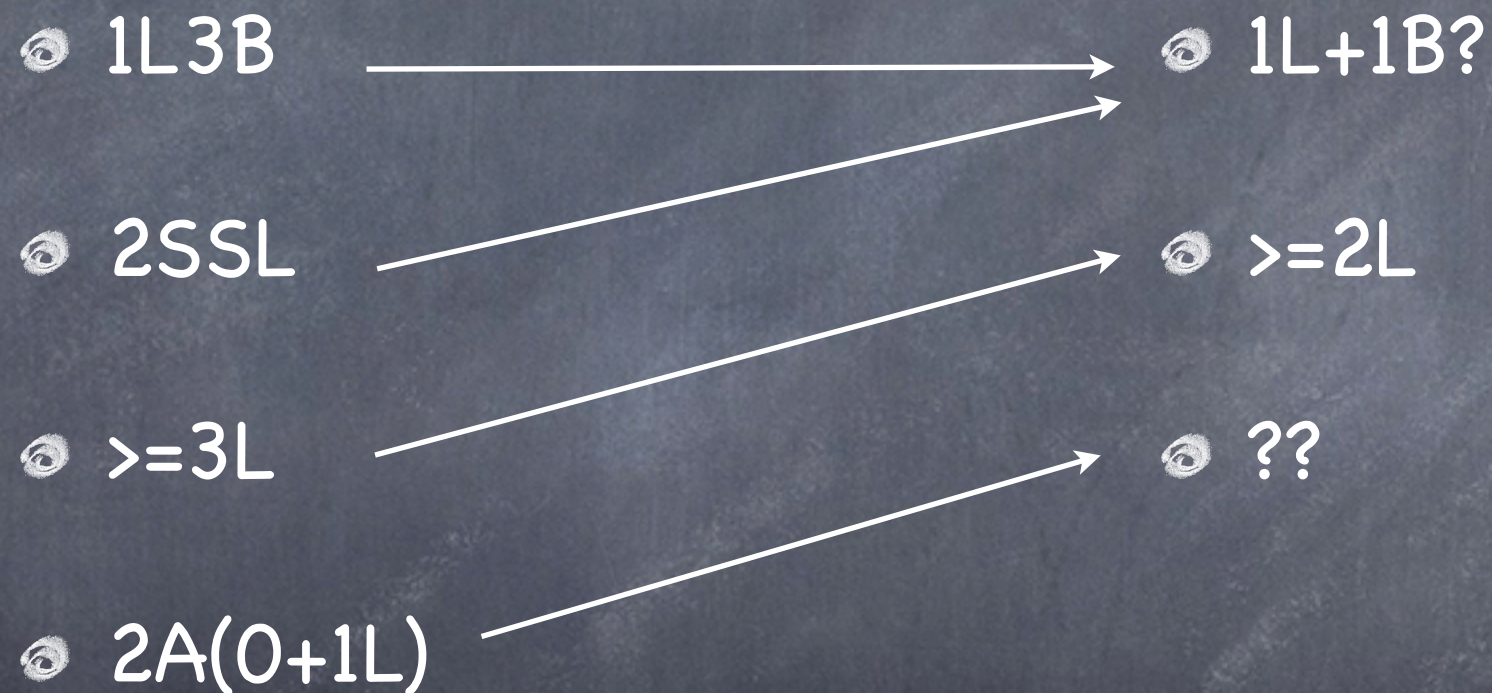


- Object ID/Baseline selection:
 - Lepton: min pt? max eta? Iso cone?
 - Jet: min pt? max eta? ID?
 - Photon: min pt? max eta? ID? Iso? Do they deserve special cares in Delphes?

Common skim definition

• Final states:

• Skims



MC Production

- Leftovers:

- $W+4\text{jets}$: done (5M events $\sim 1/\text{fb}$)
- $DY+\text{jets}$: rrrrhhhhhh!!! (See Adam's talk)
- $t\bar{t}H$: HEFT \rightarrow sm_no-masses model (crash in MadSpin)
- $\gamma\gamma+\text{jets}$: ongoing matching study

Plans for Run II

- Round table discussion during the last Top Properties meeting
- Several groups showed some interest in the FCNC/H:
 - NTU: $t\bar{t}$, tqZ (3L?Most likely) + tqH (1L2 γ +1L2B). Reload of 8TeV analysis.
 - TR: $t\bar{t}$?, $tq\gamma$ (1L+1 γ ?). New analysis
- However, none of them seems to consider doing an overall analysis of the FCNC/H couplings. And we know that switching on/off couplings independently is not optimal.
- RunII will be about precision measurements in the top sector. Probably a lot to gain by using a global EFT approach.