

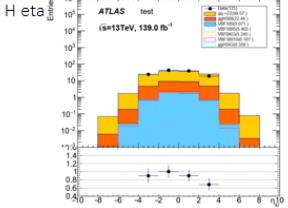
Weekly Report

Zhan Li

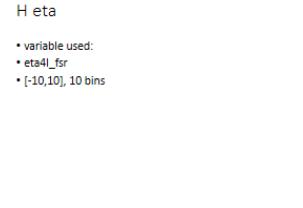
Cuts

- In this slide all figures are under the cut of loose region.
- $m_{41} \in [130, 220] \text{ GeV}$,
- $m_{41} > 120 \text{ GeV}$,
- $n_{\text{jets}} > 2$
- Here m_{41} is $m_{41\text{fsr}}$

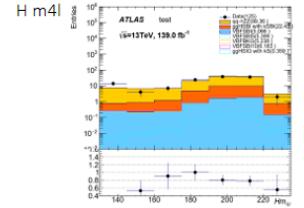
1



2



3

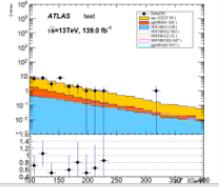


4



5

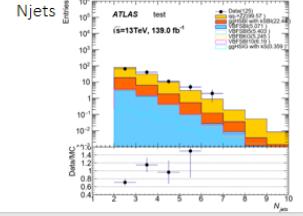
HpT_4l



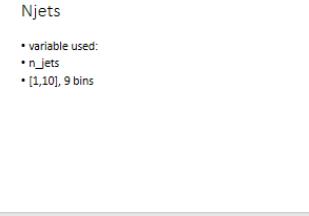
6



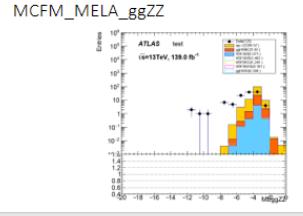
7



8



9

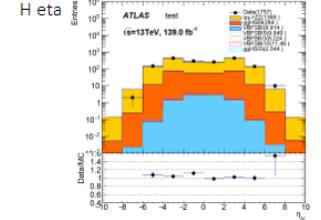


10

Cuts

- In this slide all figures are under the cut of
- $m_{41} \in [130, 220] \text{ GeV}$,
- no others.
- Here m_{41} is $m_{41\text{fsr}}$

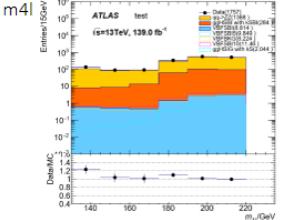
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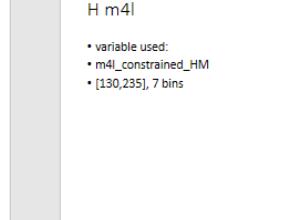
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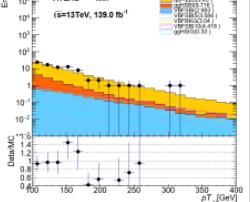


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5

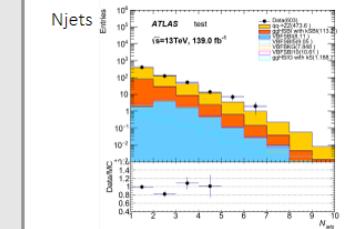
HpT_4l



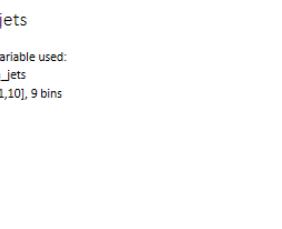
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7



8

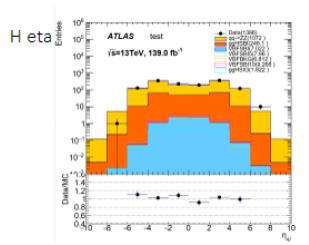


9

Cuts

- In this slide all figures are under the cut of $m_{41} \in [180, 220] \text{ GeV}$,
- no others.
- Here m_{41} is $m41_{\text{fsr}}$

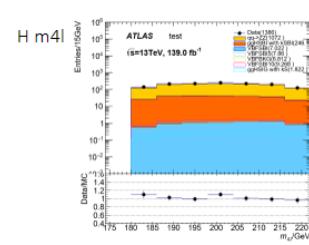
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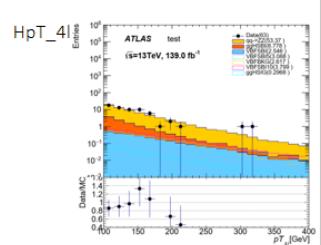
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3



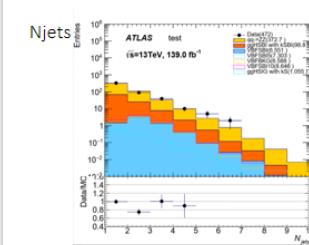
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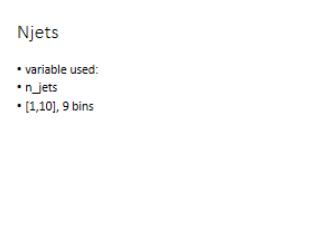
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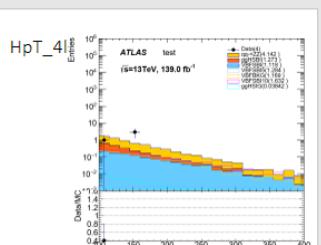
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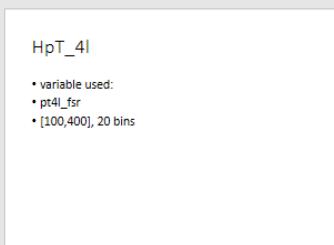
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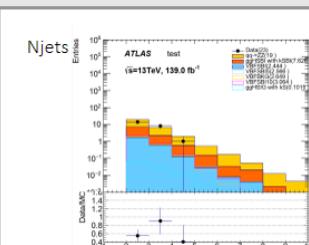
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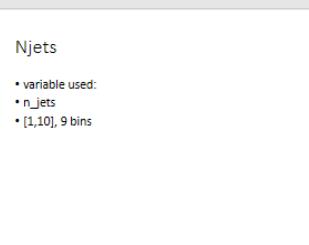
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8

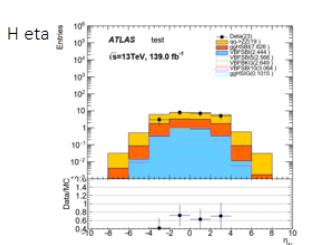


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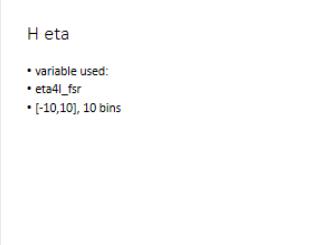
Cuts

- In this slide all figures are under the cut of $m_{41} \in [180, 220] \text{ GeV}$,
- $m_{jj} > 300 \text{ GeV}$,
- $n_{\text{jets}} \geq 2$
- $|\Delta\eta_{jj}| > 3$
- Here m_{41} is $m41_{\text{fsr}}$

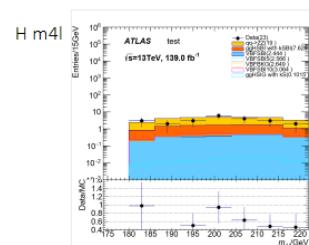
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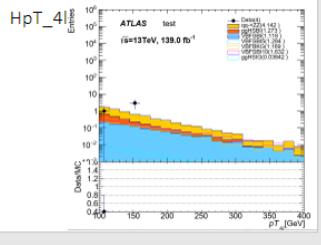
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3



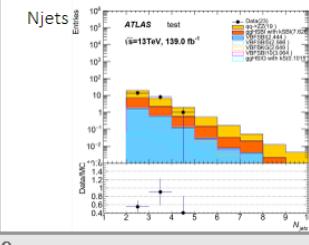
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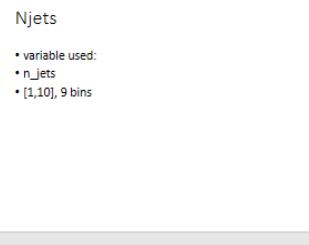
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7



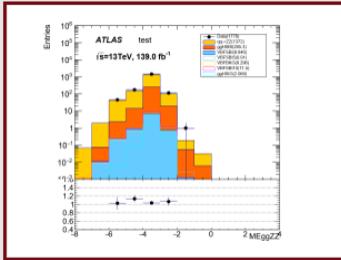
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9

H m4l

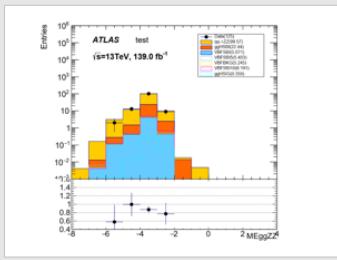
- variable used:
 - m4l_constrained_HM
 - [174,222], 8 bins
- But the cut is up to 220, so the last bin is invincible.



1



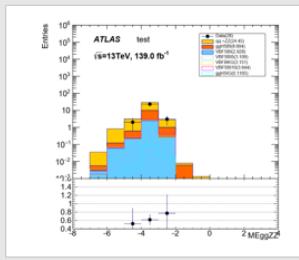
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3



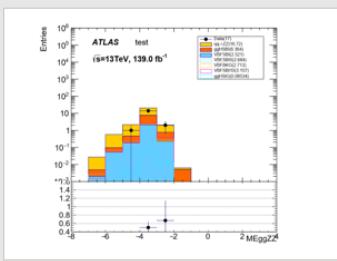
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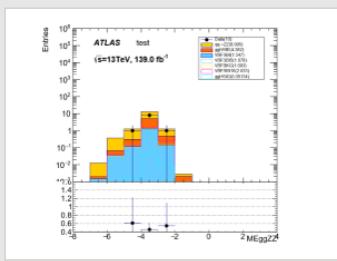
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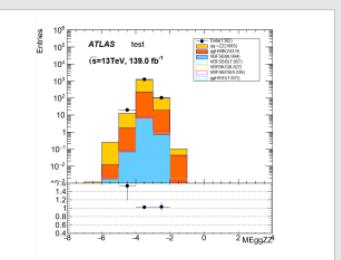
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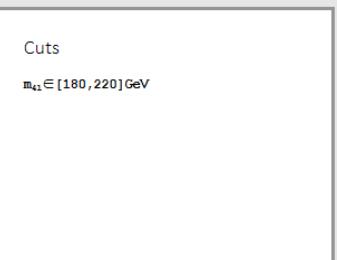
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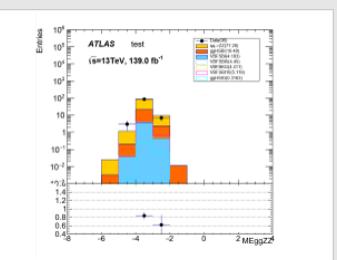
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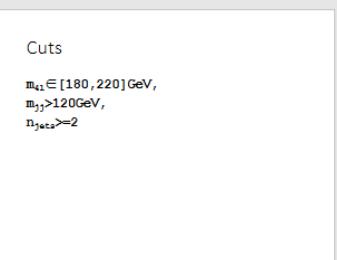
11



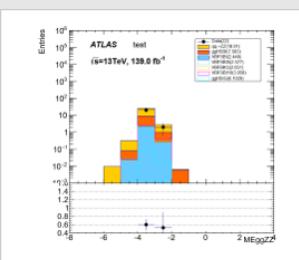
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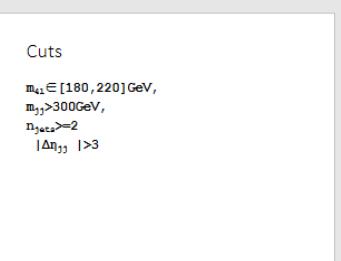
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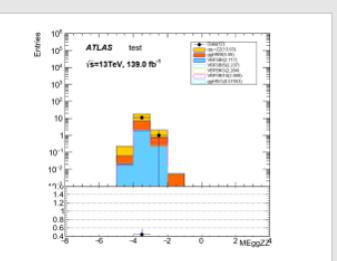
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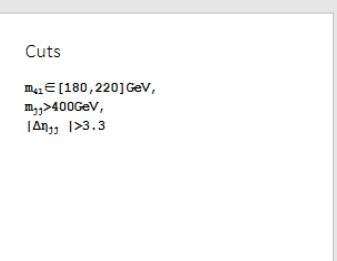
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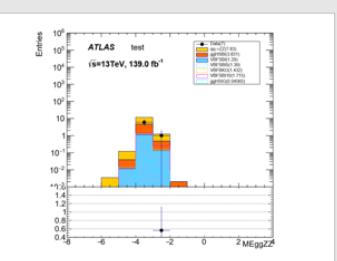
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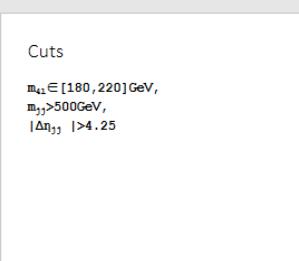
17



18



19



20

