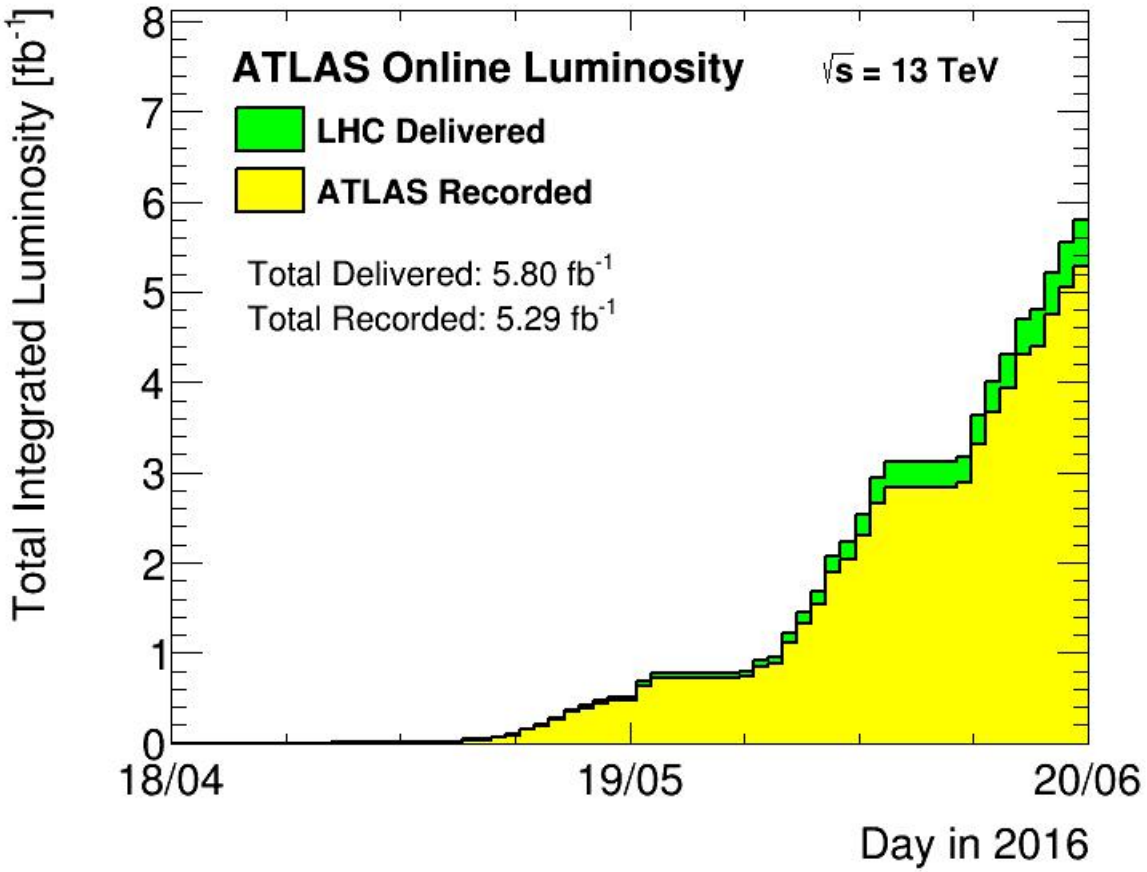
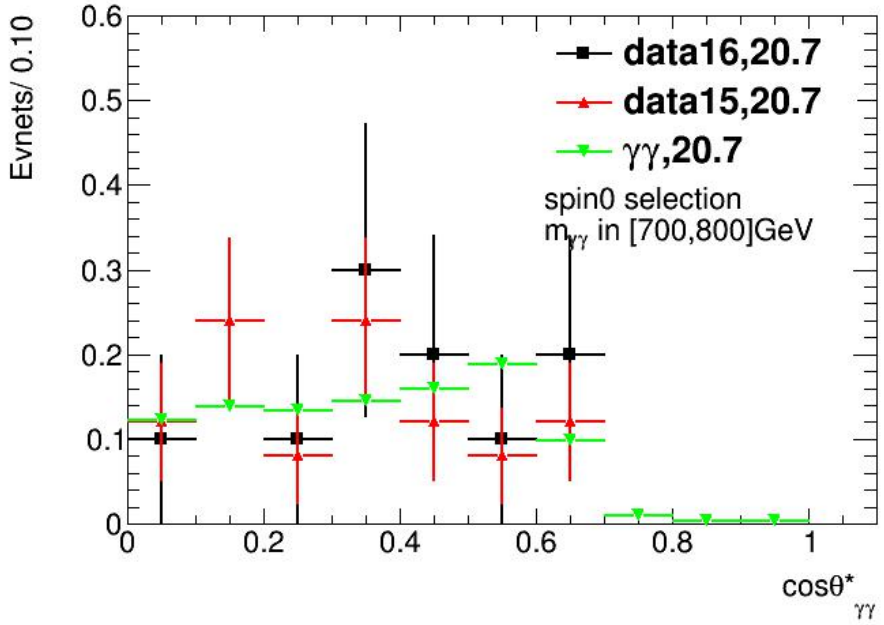
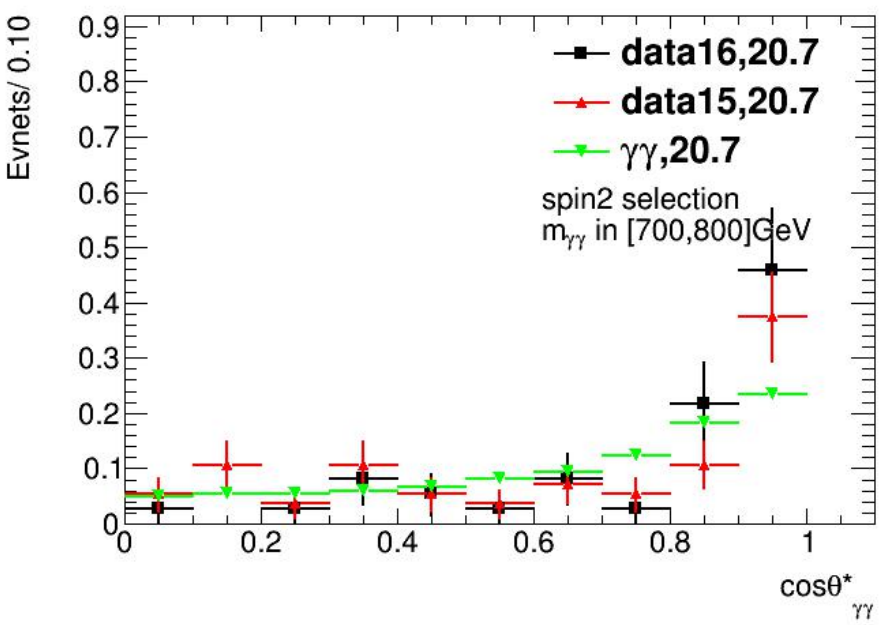
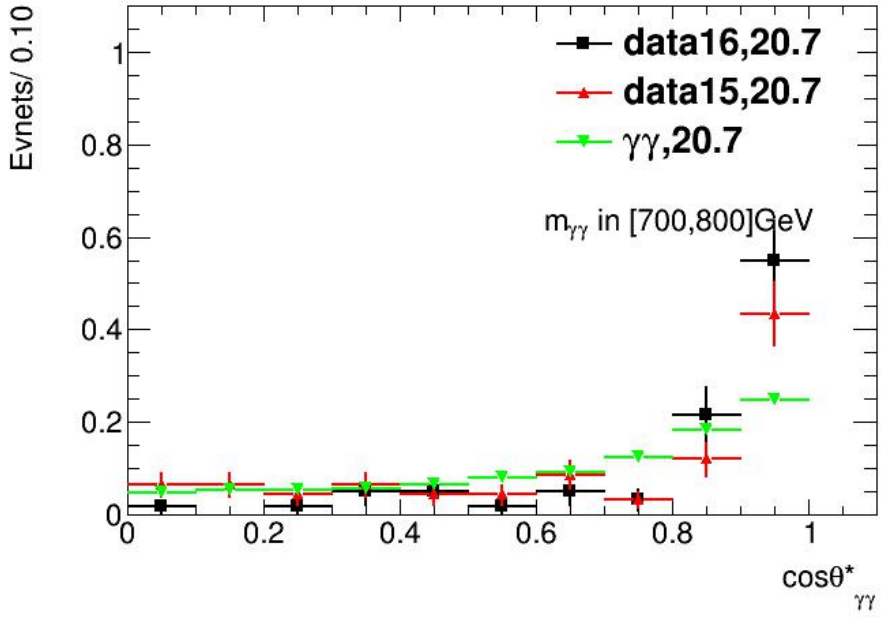
weekly report



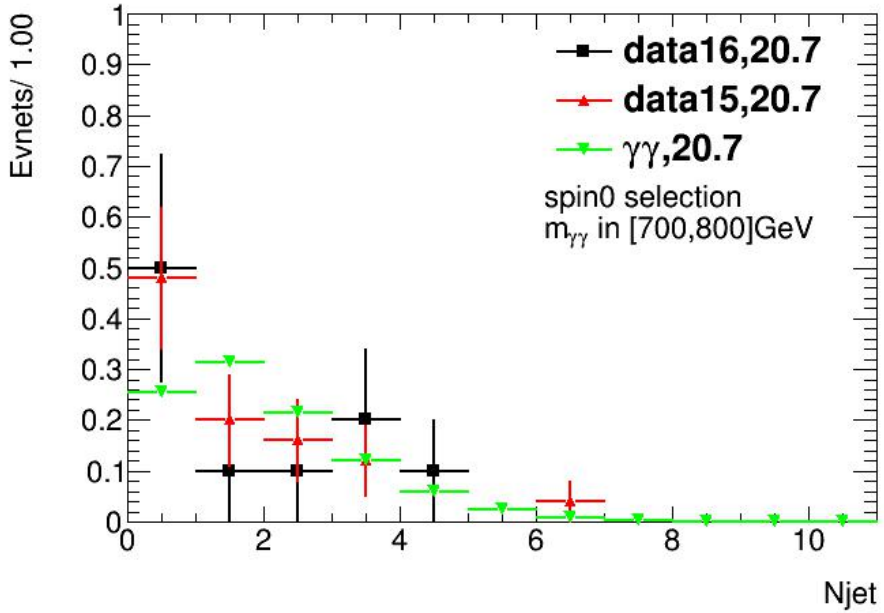
750

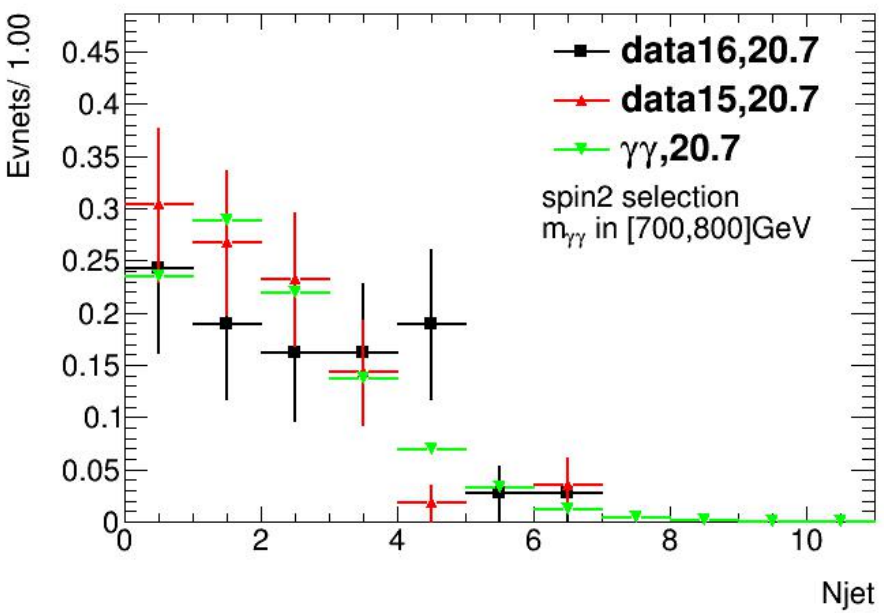

Evnets/ 0.10
data16,20.7
data15,20.7
γγ,20.7
spin0 selection
$m_{\gamma\gamma}$ in [700,800]GeV
$\cos\theta^*_{\gamma\gamma}$

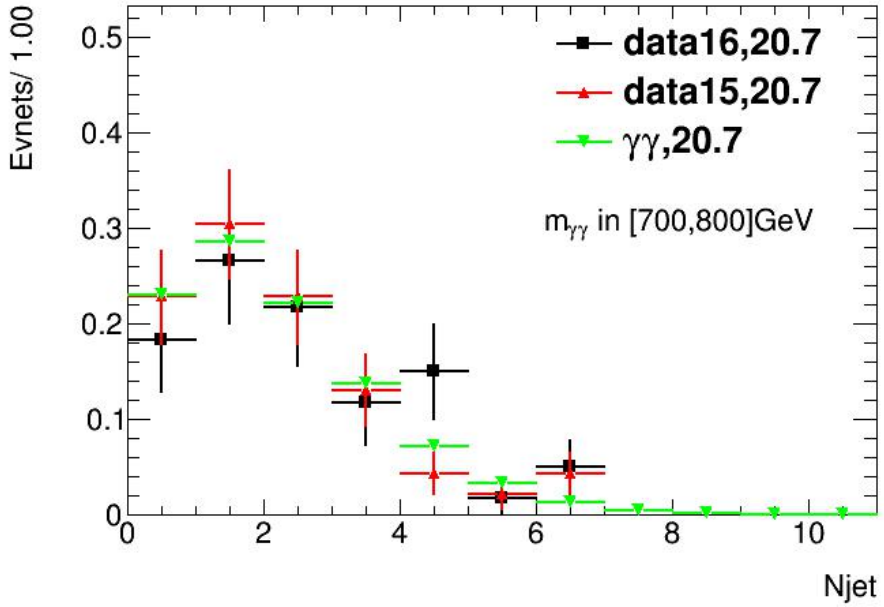

Evnets/ 0.10
data16,20.7
data15,20.7
γγ,20.7
spin2 selection
$m_{\gamma\gamma}$ in [700,800]GeV
$\cos\theta^*_{\gamma\gamma}$


Evnets/ 0.10
data16,20.7
data15,20.7
γγ,20.7
$m_{\gamma\gamma}$ in [700,800]GeV
$\cos\theta^*_{\gamma\gamma}$

750


Evnets/ 1.00
data16,20.7
data15,20.7
γγ,20.7
spin0 selection
$m_{\gamma\gamma}$ in [700,800]GeV
Njet

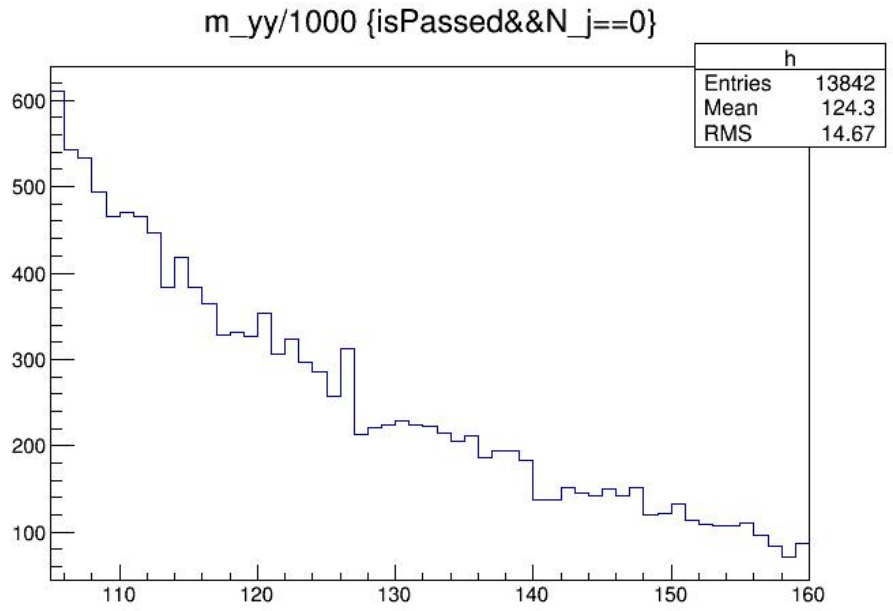

Evnets/ 1.00
data16,20.7
data15,20.7
γγ,20.7
spin2 selection
$m_{\gamma\gamma}$ in [700,800]GeV
Njet

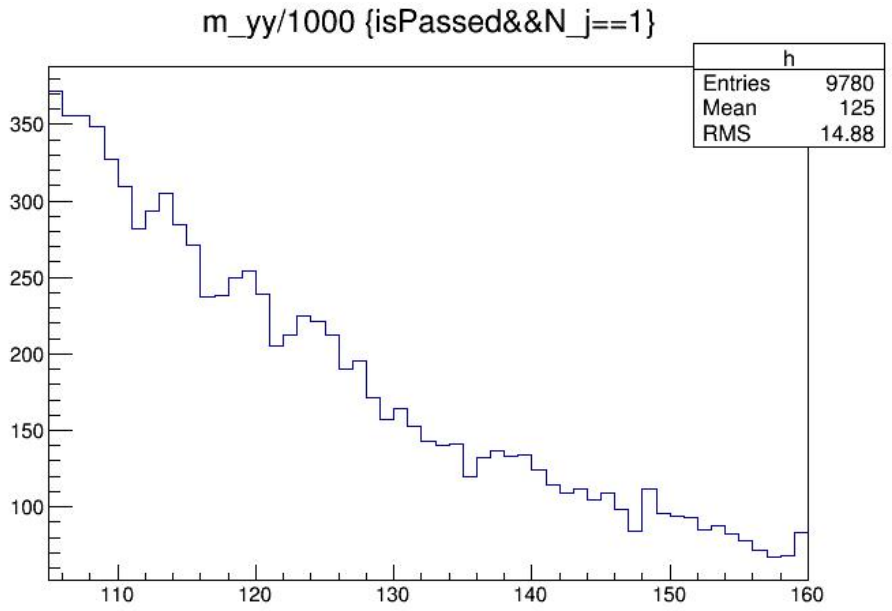

Evnets/ 1.00
data16,20.7
data15,20.7
γγ,20.7
$m_{\gamma\gamma}$ in [700,800]GeV
Njet

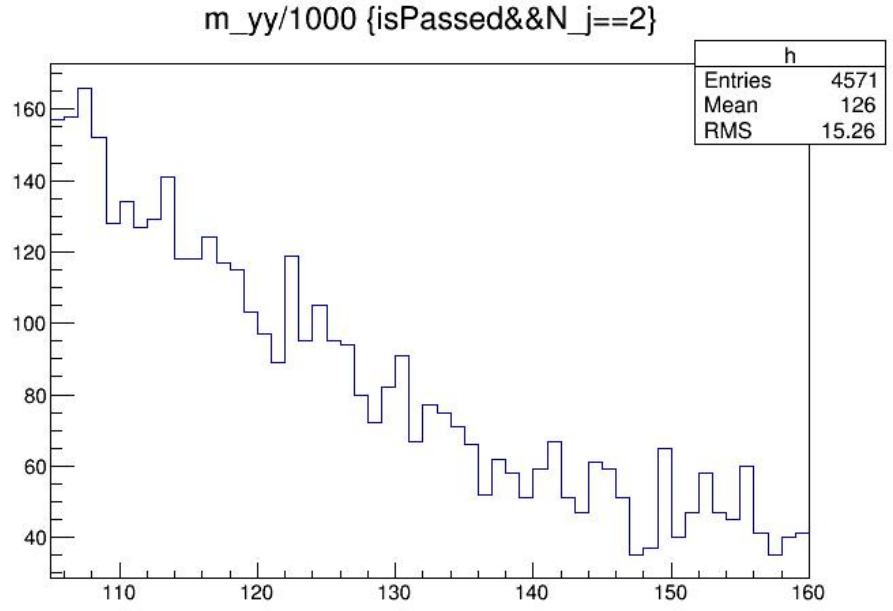
SM VBFH

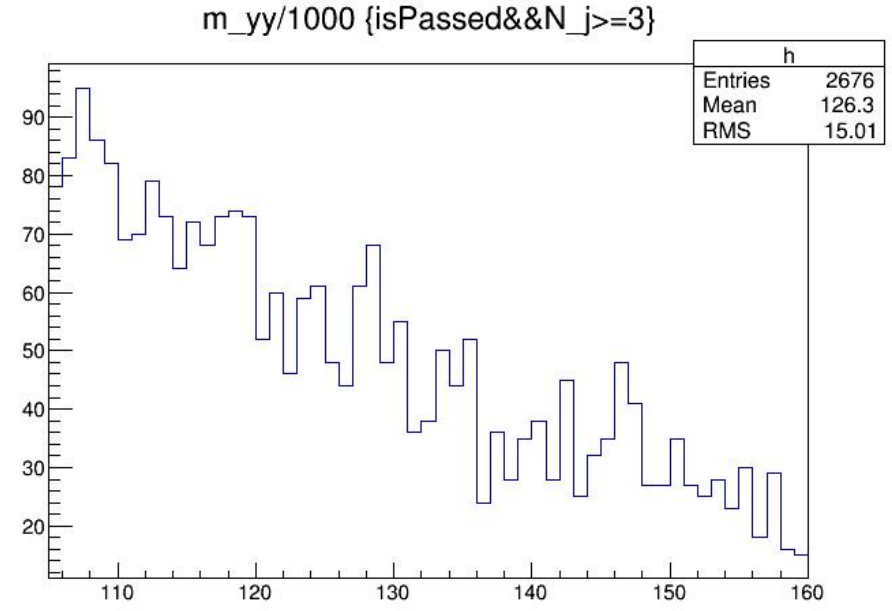
- target for ICHEP
- questions:
  - jet pT threshold: 30GeV for forward jet ---Bruce
    - doesn't change the shape of each variable
    - reduce ~8% background and ~5% VBF signal
  - BDT dependence on pile up ---Bruno
    - have seen the effect from 2015 and 2016 data
  - EW yy+jet background ---Bruno
    - produce some samples with Sherpa

147? data15

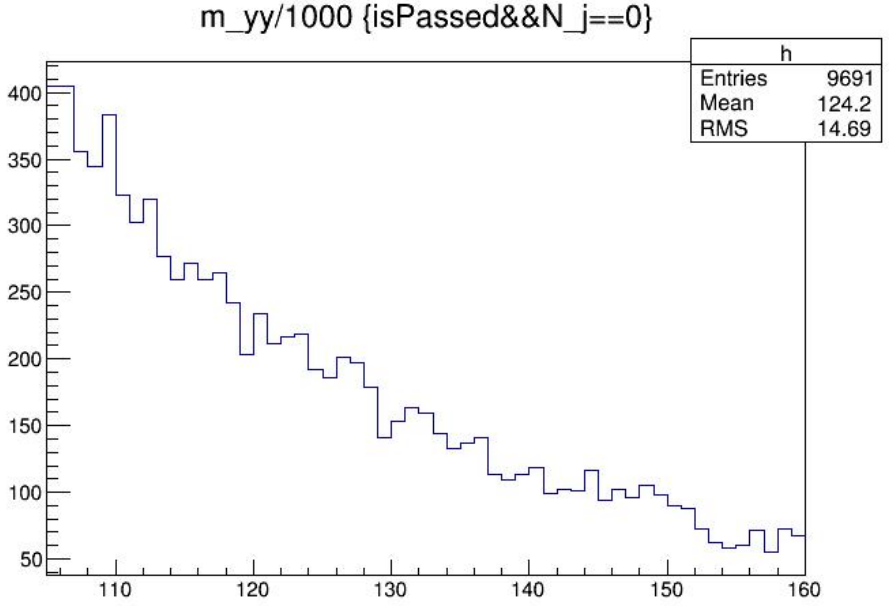

m_yy/1000 {isPassed&&N_j==0}
h
Entries 13842
Mean 124.3
RMS 14.67


m_yy/1000 {isPassed&&N_j==1}
h
Entries 9780
Mean 125
RMS 14.88


m_yy/1000 {isPassed&&N_j==2}
h
Entries 4571
Mean 126
RMS 15.26


m_yy/1000 {isPassed&&N_j>=3}
h
Entries 2676
Mean 126.3
RMS 15.01

147?data16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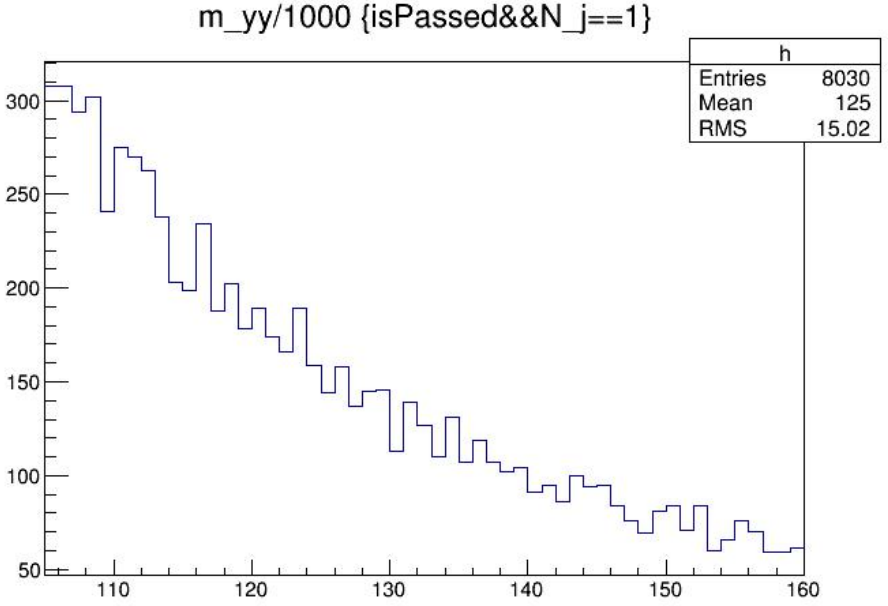
h
Entries 9691
Mean 124.2
RMS 14.69


m_yy/1000 {isPassed&&N_j==1}
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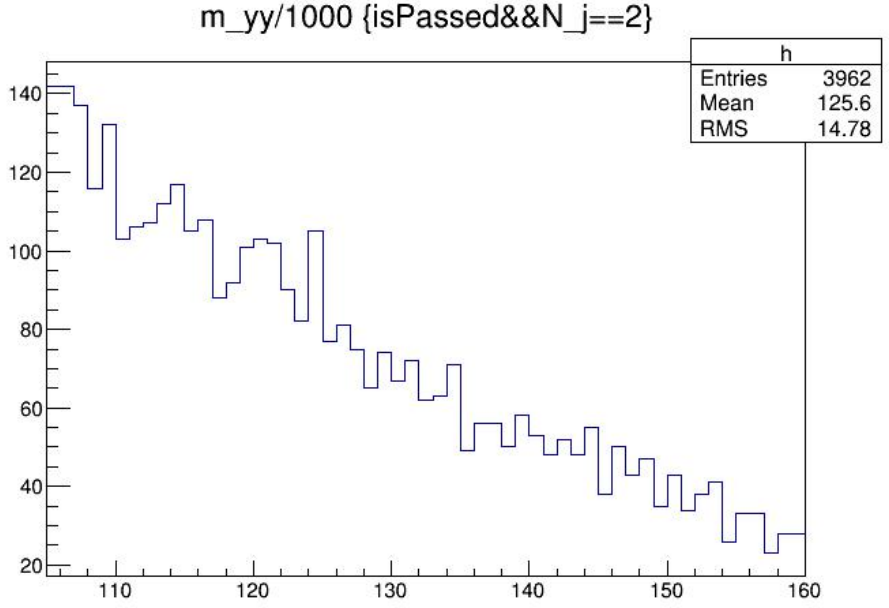
Entries 8030
Mean 125
RMS 15.02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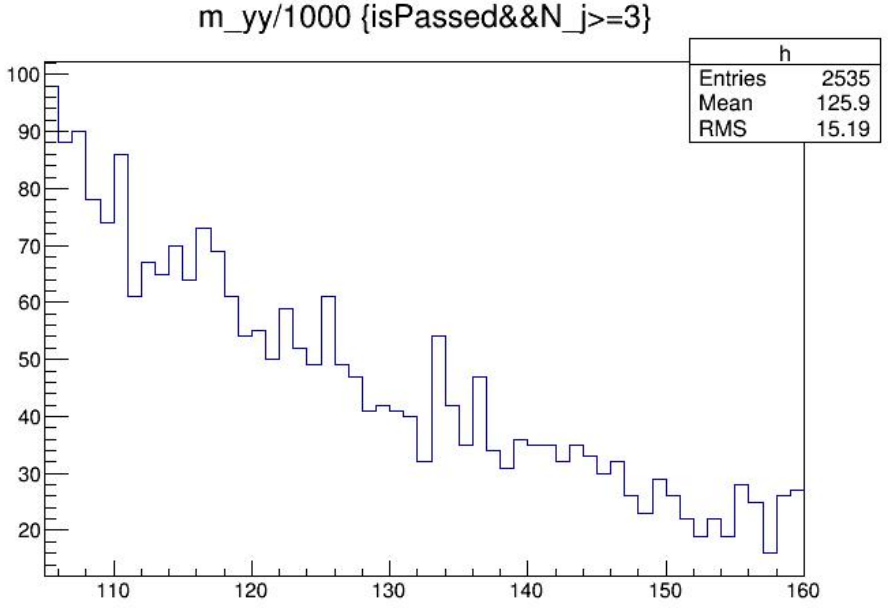
Entries 3962
Mean 125.6
RMS 14.78


m_yy/1000 {isPassed&&N_j>=3}
h
Entries 2535
Mean 125.9
RMS 15.19