

# Plot Attributes SO11HosotaniDummyCase

October 14, 2019

Statistics for SO11HosotaniDummyCase attributes.

We are imposing a ChiSquared cut at a upper bound of :20.52

The following are the attributes that go into the making of the plot **CustomPlot-mTopHiggsCrossSectRatioFiltered1000**:

The following have a contribution to  $\chi_G^2$  corresponding to:

$m_H(GeV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_H(GeV)$  Test Mean : 125.18
- $m_H(GeV)$  Expedimental Standard deviation : 0.16
- $m_H(GeV)$  Theoretical Standard deviation : 1.25

$m_\tau(GeV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_\tau(GeV)$  Test Mean : 1.776
- $m_\tau(GeV)$  Expedimental Standard deviation : 0.00012
- $m_\tau(GeV)$  Theoretical Standard deviation : 0.01776

$m_\nu(eV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_\nu(eV)$  Test Mean : 0.1
- $m_\nu(eV)$  Expedimental Standard deviation : 0.0
- $m_\nu(eV)$  Theoretical Standard deviation : 1.0

$m_b(GeV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_b(GeV)$  Test Mean : 4.18
- $m_b(GeV)$  Expedimental Standard deviation : 0.04
- $m_b(GeV)$  Theoretical Standard deviation : 0.0418

$m_t(GeV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_t(GeV)$  Test Mean : 172.44
- $m_t(GeV)$  Experimental Standard deviation : 0.9
- $m_t(GeV)$  Theoretical Standard deviation : 1.724

$m_{W^\pm}(GeV)$  with test mean, experimental StdDev, and theoretical StdDev:

- $m_{W^\pm}(GeV)$  Test Mean : 80.379
- $m_{W^\pm}(GeV)$  Experimental Standard deviation : 0.012
- $m_{W^\pm}(GeV)$  Theoretical Standard deviation : 0.8037

The following have a hard cut corresponding to:

$m_{\psi_D}(GeV)$  with a cut type and value

- $m_{\psi_D}(GeV)$  Cut Type :HardCutMore
- $m_{\psi_D}(GeV)$  Cut Value : 690

$m_\tau^{(1)}(GeV)$  with a cut type and value

- $m_\tau^{(1)}(GeV)$  Cut Type :HardCutMore
- $m_\tau^{(1)}(GeV)$  Cut Value : 560

$m_b^{(1)}(GeV)$  with a cut type and value

- $m_b^{(1)}(GeV)$  Cut Type :HardCutMore
- $m_b^{(1)}(GeV)$  Cut Value : 690

$m_{Z'}(GeV)$  with a cut type and value

- $m_{Z'}(GeV)$  Cut Type :HardCutMore
- $m_{Z'}(GeV)$  Cut Value : 2420