

# SO11HosotaniDummyCase Passed-Global-Constr

February 26, 2020

Statistics for SO11HosotaniDummyCase attributes. The following is for points that **Passed-Global-Constr** the constraints:

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The following are the statistics for **Param** :

$k(\text{GeV})$  :

- The average value for  $k(\text{GeV})$  is : 108545.54913646115
- Standard deviation for  $k(\text{GeV})$  is : 33810.07560221113
- Minimum value for  $k(\text{GeV})$  is : 55445.246882626576
- Maximum value for  $k(\text{GeV})$  is : 257388.06076967347

$z_L$  :

- The average value for  $z_L$  is : 33.68042190888927
- Standard deviation for  $z_L$  is : 2.9618576969608785
- Minimum value for  $z_L$  is : 27.190748623708306
- Maximum value for  $z_L$  is : 37.91522304445407

$c_0$  :

- The average value for  $c_0$  is : 0.29163779823022573
- Standard deviation for  $c_0$  is : 0.07715815789209247
- Minimum value for  $c_0$  is : 0.10509088
- Maximum value for  $c_0$  is : 0.361

$c_1$  :

- The average value for  $c_1$  is : 0.07537444045054158
- Standard deviation for  $c_1$  is : 0.07772814007771128

- Minimum value for  $c_1$  is : 0.013383665466308509
- Maximum value for  $c_1$  is : 0.33233057182169856

$c_2$  :

- The average value for  $c_2$  is : -0.5881560685646071
- Standard deviation for  $c_2$  is : 0.08607103037166765
- Minimum value for  $c_2$  is : -0.845352
- Maximum value for  $c_2$  is : -0.385170518272

$c'_0$  :

- The average value for  $c'_0$  is : 0.526033611546817
- Standard deviation for  $c'_0$  is : 0.04157957681038601
- Minimum value for  $c'_0$  is : 0.40862289943999996
- Maximum value for  $c'_0$  is : 0.5897

$\mu_1$  :

- The average value for  $\mu_1$  is : 15.161263629941828
- Standard deviation for  $\mu_1$  is : 2.834296873228901
- Minimum value for  $\mu_1$  is : 10.286653277462635
- Maximum value for  $\mu_1$  is : 24.34001746864883

$\mu_{11}$  :

- The average value for  $\mu_{11}$  is : 0.21140616562157574
- Standard deviation for  $\mu_{11}$  is : 0.08848749947383941
- Minimum value for  $\mu_{11}$  is : 0.1162980146214366
- Maximum value for  $\mu_{11}$  is : 0.3896164149785195

$\mu'_{11}$  :

- The average value for  $\mu'_{11}$  is : 0.1882667970475316
- Standard deviation for  $\mu'_{11}$  is : 0.058364737718231315
- Minimum value for  $\mu'_{11}$  is : 0.11117737733801236
- Maximum value for  $\mu'_{11}$  is : 0.37802739375647987

$\tilde{\mu}_2$  :

- The average value for  $\tilde{\mu}_2$  is : 1.8657068661438574
- Standard deviation for  $\tilde{\mu}_2$  is : 1.2557016218382653
- Minimum value for  $\tilde{\mu}_2$  is : 0.8471479999999998
- Maximum value for  $\tilde{\mu}_2$  is : 6.416193034836342

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The following are the statistics for **Attr** :

$m_H(\text{GeV})$  :

- The average value for  $m_H(\text{GeV})$  is : 127.23467500553723
- Standard deviation for  $m_H(\text{GeV})$  is : 2.0227347355446725
- Minimum value for  $m_H(\text{GeV})$  is : 122.3673385421512
- Maximum value for  $m_H(\text{GeV})$  is : 129.80513509684775

$m_{\psi_D}(\text{GeV})$  :

- The average value for  $m_{\psi_D}(\text{GeV})$  is : 2596.6152447725212
- Standard deviation for  $m_{\psi_D}(\text{GeV})$  is : 786.852425894038
- Minimum value for  $m_{\psi_D}(\text{GeV})$  is : 1371.6746227479453
- Maximum value for  $m_{\psi_D}(\text{GeV})$  is : 5354.988490529566

$m_\tau(\text{GeV})$  :

- The average value for  $m_\tau(\text{GeV})$  is : 1.7590031954138097
- Standard deviation for  $m_\tau(\text{GeV})$  is : 0.026120489261163986
- Minimum value for  $m_\tau(\text{GeV})$  is : 1.7167560943085807
- Maximum value for  $m_\tau(\text{GeV})$  is : 1.8302559924229869

$m_\tau^{(1)}(\text{GeV})$  :

- The average value for  $m_\tau^{(1)}(\text{GeV})$  is : 1407.3810881707311
- Standard deviation for  $m_\tau^{(1)}(\text{GeV})$  is : 426.39846229929907
- Minimum value for  $m_\tau^{(1)}(\text{GeV})$  is : 727.3069068822812
- Maximum value for  $m_\tau^{(1)}(\text{GeV})$  is : 2551.0692462747534

$m_\nu(\text{eV})$  :

- The average value for  $m_\nu(\text{eV})$  is : 0.08628744049129751

- Standard deviation for  $m_\nu(eV)$  is : 0.035877619826273084
- Minimum value for  $m_\nu(eV)$  is : 0.020601423117924678
- Maximum value for  $m_\nu(eV)$  is : 0.1330574871341866

$m_b(\text{GeV})$  :

- The average value for  $m_b(\text{GeV})$  is : 4.159058019275145
- Standard deviation for  $m_b(\text{GeV})$  is : 0.07308771322187127
- Minimum value for  $m_b(\text{GeV})$  is : 3.9917906958817246
- Maximum value for  $m_b(\text{GeV})$  is : 4.384711470085788

$m_b^{(1)}(\text{GeV})$  :

- The average value for  $m_b^{(1)}(\text{GeV})$  is : 3574.9531654274992
- Standard deviation for  $m_b^{(1)}(\text{GeV})$  is : 1283.2272545550406
- Minimum value for  $m_b^{(1)}(\text{GeV})$  is : 1495.2767699310994
- Maximum value for  $m_b^{(1)}(\text{GeV})$  is : 8613.456653862164

$m_t(\text{GeV})$  :

- The average value for  $m_t(\text{GeV})$  is : 172.79878565924488
- Standard deviation for  $m_t(\text{GeV})$  is : 3.043403644653775
- Minimum value for  $m_t(\text{GeV})$  is : 167.15526346429266
- Maximum value for  $m_t(\text{GeV})$  is : 178.92299178539824

$\langle\theta_H\rangle(\text{rad})$  :

- The average value for  $\langle\theta_H\rangle(\text{rad})$  is : 0.12610642317016404
- Standard deviation for  $\langle\theta_H\rangle(\text{rad})$  is : 0.036650377649708105
- Minimum value for  $\langle\theta_H\rangle(\text{rad})$  is : 0.050170164720943586
- Maximum value for  $\langle\theta_H\rangle(\text{rad})$  is : 0.2222597944309811

$m_Z(\text{GeV})$  :

- The average value for  $m_Z(\text{GeV})$  is : 91.72318037459326
- Standard deviation for  $m_Z(\text{GeV})$  is : 1.3123667804972343
- Minimum value for  $m_Z(\text{GeV})$  is : 88.8937820474113
- Maximum value for  $m_Z(\text{GeV})$  is : 94.65471272418216

$m_{W^\pm}(\text{GeV}) :$

- The average value for  $m_{W^\pm}(\text{GeV})$  is : 80.42402271524095
- Standard deviation for  $m_{W^\pm}(\text{GeV})$  is : 1.1506994778680046
- Minimum value for  $m_{W^\pm}(\text{GeV})$  is : 77.94317115289397
- Maximum value for  $m_{W^\pm}(\text{GeV})$  is : 82.9944266557819

$m_{Z'}(\text{GeV}) :$

- The average value for  $m_{Z'}(\text{GeV})$  is : 11938.646555640813
- Standard deviation for  $m_{Z'}(\text{GeV})$  is : 3689.9859766090863
- Minimum value for  $m_{Z'}(\text{GeV})$  is : 6262.967650411356
- Maximum value for  $m_{Z'}(\text{GeV})$  is : 27541.267472358228

$T :$

- The average value for  $T$  is : 0.0
- Standard deviation for  $T$  is : 0.0
- Minimum value for  $T$  is : 0
- Maximum value for  $T$  is : 0

$y_t :$

- The average value for  $y_t$  is : 0.9827979213782879
- Standard deviation for  $y_t$  is : 0.005270102671480639
- Minimum value for  $y_t$  is : 0.9669443037702264
- Maximum value for  $y_t$  is : 0.9900818655456609

$\tau_H :$

- The average value for  $\tau_H$  is : 29.842453204286205
- Standard deviation for  $\tau_H$  is : 1.265210356414497
- Minimum value for  $\tau_H$  is : 27.20407111212093
- Maximum value for  $\tau_H$  is : 31.632099263565543

$\sigma(hh)(fb) :$

- The average value for  $\sigma(hh)(fb)$  is : 17.521110092751105
- Standard deviation for  $\sigma(hh)(fb)$  is : 0.8308867640492297

- Minimum value for  $\sigma(hh)(fb)$  is : 16.124911402304566
- Maximum value for  $\sigma(hh)(fb)$  is : 19.67112228470861

$\Delta_{HH}$  :

- The average value for  $\Delta_{HH}$  is : 0.12144985645422236
- Standard deviation for  $\Delta_{HH}$  is : 0.005161119851057237
- Minimum value for  $\Delta_{HH}$  is : 0.11339357454058306
- Maximum value for  $\Delta_{HH}$  is : 0.13496472214819547

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The following are the statistics for **Calc** :

$\chi_G^2$  :

- The average value for  $\chi_G^2$  is : 14.577460916596705
- Standard deviation for  $\chi_G^2$  is : 3.6026771408002993
- Minimum value for  $\chi_G^2$  is : 3.776936935524515
- Maximum value for  $\chi_G^2$  is : 20.50197661986195

$\Lambda_{\text{Max}}(\text{GeV})$  :

- The average value for  $\Lambda_{\text{Max}}(\text{GeV})$  is : 1099363.9513775182
- Standard deviation for  $\Lambda_{\text{Max}}(\text{GeV})$  is : 518288.2942353224
- Minimum value for  $\Lambda_{\text{Max}}(\text{GeV})$  is : 399436.6197277277
- Maximum value for  $\Lambda_{\text{Max}}(\text{GeV})$  is : 2878368.8093605824

$\sin^2 \theta_W(\Lambda_{\text{Max}})$  :

- The average value for  $\sin^2 \theta_W(\Lambda_{\text{Max}})$  is : 0.05352405279197031
- Standard deviation for  $\sin^2 \theta_W(\Lambda_{\text{Max}})$  is : 0.02773091711071304
- Minimum value for  $\sin^2 \theta_W(\Lambda_{\text{Max}})$  is : 0.023598319982197007
- Maximum value for  $\sin^2 \theta_W(\Lambda_{\text{Max}})$  is : 0.16124124238594675

$\sin^2 \theta_W(M_{\text{KK}_5})$  :

- The average value for  $\sin^2 \theta_W(M_{\text{KK}_5})$  is : 0.04541998505826952
- Standard deviation for  $\sin^2 \theta_W(M_{\text{KK}_5})$  is : 0.0290269404175761
- Minimum value for  $\sin^2 \theta_W(M_{\text{KK}_5})$  is : 0.014524237547816912

- Maximum value for  $\sin^2 \theta_W(M_{KK_5})$  is : 0.15498837542418092
- $(\alpha)_{1Y}^{-1}$  :
- The average value for  $(\alpha)_{1Y}^{-1}$  is : 70.25361224838909
  - Standard deviation for  $(\alpha)_{1Y}^{-1}$  is : 1.9337944503745323
  - Minimum value for  $(\alpha)_{1Y}^{-1}$  is : 62.7580796472487
  - Maximum value for  $(\alpha)_{1Y}^{-1}$  is : 72.32245569563878
- $(\alpha)_{2L}^{-1}$  :
- The average value for  $(\alpha)_{2L}^{-1}$  is : 5.580694291299988
  - Standard deviation for  $(\alpha)_{2L}^{-1}$  is : 3.5981091663221836
  - Minimum value for  $(\alpha)_{2L}^{-1}$  is : 1.775740591293183
  - Maximum value for  $(\alpha)_{2L}^{-1}$  is : 19.175571608185955
- $(\alpha)_{3C}^{-1}$  :
- The average value for  $(\alpha)_{3C}^{-1}$  is : 13.45144906615464
  - Standard deviation for  $(\alpha)_{3C}^{-1}$  is : 0.33667777627817574
  - Minimum value for  $(\alpha)_{3C}^{-1}$  is : 12.702416153920822
  - Maximum value for  $(\alpha)_{3C}^{-1}$  is : 14.441544565004364
- $(\alpha)_{4C}^{-1}$  :
- The average value for  $(\alpha)_{4C}^{-1}$  is : 10.554068044718374
  - Standard deviation for  $(\alpha)_{4C}^{-1}$  is : 1.6497162172484714
  - Minimum value for  $(\alpha)_{4C}^{-1}$  is : 5.340040255301442
  - Maximum value for  $(\alpha)_{4C}^{-1}$  is : 13.021838770042699
- $(\alpha)_{2L}^{-1}$  :
- The average value for  $(\alpha)_{2L}^{-1}$  is : 6.246455738623567
  - Standard deviation for  $(\alpha)_{2L}^{-1}$  is : 3.0377209404795935
  - Minimum value for  $(\alpha)_{2L}^{-1}$  is : 2.8272972362952276
  - Maximum value for  $(\alpha)_{2L}^{-1}$  is : 17.848832114499206
- $(\alpha)_{3C}^{-1}$  :
- The average value for  $(\alpha)_{3C}^{-1}$  is : 104.57140272107394
  - Standard deviation for  $(\alpha)_{3C}^{-1}$  is : 3.980769618351845
  - Minimum value for  $(\alpha)_{3C}^{-1}$  is : 89.41135264684931
  - Maximum value for  $(\alpha)_{3C}^{-1}$  is : 109.11160183063441