# SO11HosotaniDummyCase Passed-Global-Constr

January 10, 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** :

$k$(GeV) :

- The average value for $k$(GeV) is : 106447.88401431666
- Standard deviation for $k$(GeV) is : 28287.701034672595
- Minimum value for $k$(GeV) is : 70585.77667404075
- Maximum value for $k$(GeV) is : 151335.5565540908

$z_L$ :

- The average value for $z_L$ is : 31.103442573094064
- Standard deviation for $z_L$ is : 3.373295193756028
- 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 : 0.22005115076152892
- Standard deviation for $c_0$ is : 0.10497640030711194
- 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 : 0.11398343403614894
- Standard deviation for $c_1$ is : 0.03259549382087628

- Minimum value for $c_1$ is : 0.026803799390436617
- Maximum value for $c_1$ is : 0.13364866504201686

$c_2$ :

- The average value for $c_2$ is : -0.5453478554382223
- Standard deviation for $c_2$ is : 0.10640993806273609
- Minimum value for $c_2$ is : -0.6342196800000001
- Maximum value for $c_2$ is : -0.385170518272

$c_0'$ :

- The average value for $c_0'$ is : 0.5005309050359972
- Standard deviation for $c_0'$ is : 0.04223416794342355
- Minimum value for $c_0'$ is : 0.45441993876039605
- Maximum value for $c_0'$ is : 0.560516139392

$\mu_1$ :

- The average value for $\mu_1$ is : 14.406764451799976
- Standard deviation for $\mu_1$ is : 3.8618280375342278
- 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 : 0.2668709345199617
- Standard deviation for $\mu_{11}$ is : 0.09461534605314834
- Minimum value for $\mu_{11}$ is : 0.1568383727964729
- Maximum value for $\mu_{11}$ is : 0.37149381272156784

$\mu_{11}'$ :

- The average value for $\mu_{11}'$ is : 0.22487366932747876
- Standard deviation for $\mu_{11}'$ is : 0.09359205186742706
- Minimum value for $\mu_{11}'$ is : 0.1515651091085874
- Maximum value for $\mu_{11}'$ is : 0.37802739375647987

$\tilde{\mu_2}$ :

- The average value for $\tilde{\mu_2}$ is : 3.057387218390781
- Standard deviation for $\tilde{\mu_2}$ is : 1.8761634804717158
- Minimum value for $\tilde{\mu_2}$ is : 1.4820825611724695
- Maximum value for $\tilde{\mu_2}$ is : 6.416193034836342

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

$m_H$(GeV) :

- The average value for $m_H$(GeV) is : 127.35902930202867
- Standard deviation for $m_H$(GeV) is : 1.8875038573521314
- Minimum value for $m_H$(GeV) is : 123.65087081631302
- Maximum value for $m_H$(GeV) is : 129.7274907294242

$m_{\psi_D}$(GeV) :

- The average value for $m_{\psi_D}$(GeV) is : 2978.706254187265
- Standard deviation for $m_{\psi_D}$(GeV) is : 868.2388534321411
- Minimum value for $m_{\psi_D}$(GeV) is : 1371.6904066415134
- Maximum value for $m_{\psi_D}$(GeV) is : 3896.9585469352683

$m_\tau$(GeV) :

- The average value for $m_\tau$(GeV) is : 1.7705840700136644
- Standard deviation for $m_\tau$(GeV) is : 0.030706917029193374
- Minimum value for $m_\tau$(GeV) is : 1.7409229751011943
- Maximum value for $m_\tau$(GeV) is : 1.8302559924229869

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

- The average value for $m_\tau^{(1)}$(GeV) is : 1881.9065468276483
- Standard deviation for $m_\tau^{(1)}$(GeV) is : 445.28795835601557
- Minimum value for $m_\tau^{(1)}$(GeV) is : 1315.8444065327599
- Maximum value for $m_\tau^{(1)}$(GeV) is : 2551.0692462747534

$m_\nu(eV)$ :

- The average value for $m_\nu(eV)$ is : 0.056740948310631395

- Standard deviation for $m_\nu(eV)$ is : 0.03667572860142034
- Minimum value for $m_\nu(eV)$ is : 0.020601423117924678
- Maximum value for $m_\nu(eV)$ is : 0.1328272849724689

$m_b$(GeV) :

- The average value for $m_b$(GeV) is : 4.1552465758782064
- Standard deviation for $m_b$(GeV) is : 0.06166328287311014
- Minimum value for $m_b$(GeV) is : 4.085062817470879
- Maximum value for $m_b$(GeV) is : 4.25023287408794

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

- The average value for $m_b^{(1)}$(GeV) is : 4100.8260845522445
- Standard deviation for $m_b^{(1)}$(GeV) is : 1239.0911086719727
- Minimum value for $m_b^{(1)}$(GeV) is : 1896.6296922821427
- Maximum value for $m_b^{(1)}$(GeV) is : 5562.004955790923

$m_t$(GeV) :

- The average value for $m_t$(GeV) is : 171.51561407672
- Standard deviation for $m_t$(GeV) is : 2.311365906117229
- Minimum value for $m_t$(GeV) is : 168.91627790518456
- Maximum value for $m_t$(GeV) is : 176.35798280039646

$\langle\theta_H\rangle$(rad) :

- The average value for $\langle\theta_H\rangle$(rad) is : 0.11343059358121566
- Standard deviation for $\langle\theta_H\rangle$(rad) is : 0.04102880370496169
- Minimum value for $\langle\theta_H\rangle$(rad) is : 0.08049762809791912
- Maximum value for $\langle\theta_H\rangle$(rad) is : 0.20952280463006473

$m_Z$(GeV) :

- The average value for $m_Z$(GeV) is : 90.9868593350899
- Standard deviation for $m_Z$(GeV) is : 1.381097034837288
- Minimum value for $m_Z$(GeV) is : 89.0412449214728
- Maximum value for $m_Z$(GeV) is : 93.74218337225348

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

- The average value for $m_{W^{\pm}}$(GeV) is : 79.77840729103866
- Standard deviation for $m_{W^{\pm}}$(GeV) is : 1.2109630177245045
- Minimum value for $m_{W^{\pm}}$(GeV) is : 78.0724684306894
- Maximum value for $m_{W^{\pm}}$(GeV) is : 82.19430959673404

$m_{Z'}$(GeV) :

- The average value for $m_{Z'}$(GeV) is : 12833.150390821149
- Standard deviation for $m_{Z'}$(GeV) is : 3453.236532348032
- Minimum value for $m_{Z'}$(GeV) is : 6846.897000348874
- Maximum value for $m_{Z'}$(GeV) is : 16996.988034396873

$T$ :

- 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 : 0.98413160300455
- Standard deviation for $y_t$ is : 0.005702761600355013
- Minimum value for $y_t$ is : 0.9696491213349282
- Maximum value for $y_t$ is : 0.9881191069038079

$\tau_H$ :

- The average value for $\tau_H$ is : 30.244322909432185
- Standard deviation for $\tau_H$ is : 1.2382439682071849
- Minimum value for $\tau_H$ is : 27.94609800398461
- Maximum value for $\tau_H$ is : 31.61719496464271

$\sigma(hh)(fb)$ :

- The average value for $\sigma(hh)(fb)$ is : 17.988437386835887
- Standard deviation for $\sigma(hh)(fb)$ is : 0.812675688807743

- Minimum value for $\sigma(hh)(fb)$ is : 16.93674320790359
- Maximum value for $\sigma(hh)(fb)$ is : 19.26838353991684

$\Delta_{HH}$ :

- The average value for $\Delta_{HH}$ is : 0.12451371544294483
- Standard deviation for $\Delta_{HH}$ is : 0.005373134171189239
- Minimum value for $\Delta_{HH}$ is : 0.1179584408614722
- Maximum value for $\Delta_{HH}$ is : 0.13201571844736298

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

$\chi^2_G$ :

- The average value for $\chi^2_G$ is : 14.104212740037434
- Standard deviation for $\chi^2_G$ is : 5.412403599024601
- Minimum value for $\chi^2_G$ is : 3.8213646260526097
- Maximum value for $\chi^2_G$ is : 20.393717686809502

$\sin^2\theta_W$ :

- The average value for $\sin^2\theta_W$ is : 0.23675576985805247
- Standard deviation for $\sin^2\theta_W$ is : 0.006421137713583821
- Minimum value for $\sin^2\theta_W$ is : 0.23150434029505543
- Maximum value for $\sin^2\theta_W$ is : 0.24848012171212483