# SO11HosotaniDummyCase Failed-Global-Constr

October 14, 2019

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

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

$k(GeV)$ :

- The average value for $k(GeV)$ is : 131578.42129991786
- Standard deviation for $k(GeV)$ is : 63317.243920534405
- Minimum value for $k(GeV)$ is : 29745.70897245925
- Maximum value for $k(GeV)$ is : 523128.26238726394

$z_L$ :

- The average value for $z_L$ is : 35.70620006971989
- Standard deviation for $z_L$ is : 3.768966744122469
- Minimum value for $z_L$ is : 17.43649508024567
- Maximum value for $z_L$ is : 51.226730749863854

$c_0$ :

- The average value for $c_0$ is : 0.2594396430297811
- Standard deviation for $c_0$ is : 0.11087437460619713
- Minimum value for $c_0$ is : 0.0038
- Maximum value for $c_0$ is : 0.6486000000000001

$c_1$ :

- The average value for $c_1$ is : 0.13092681240605342
- Standard deviation for $c_1$ is : 0.10968710143111245

- Minimum value for $c_1$ is : 0.00012500000000000705
- Maximum value for $c_1$ is : 0.6766512788619184

$c_2$ :

- The average value for $c_2$ is : -0.6818151985400223
- Standard deviation for $c_2$ is : 0.17010884471456683
- Minimum value for $c_2$ is : -1.2083085984
- Maximum value for $c_2$ is : -0.2005626374973603

$c_0'$ :

- The average value for $c_0'$ is : 0.5541615722855617
- Standard deviation for $c_0'$ is : 0.08811827633189583
- Minimum value for $c_0'$ is : 0.12614662911599314
- Maximum value for $c_0'$ is : 0.74672244

$\mu_1$ :

- The average value for $\mu_1$ is : 15.450468379950179
- Standard deviation for $\mu_1$ is : 4.30507131076582
- Minimum value for $\mu_1$ is : 6.455597256463612
- Maximum value for $\mu_1$ is : 48.493708002999824

$\mu_{11}$ :

- The average value for $\mu_{11}$ is : 0.2746335645617079
- Standard deviation for $\mu_{11}$ is : 0.1488603917982374
- Minimum value for $\mu_{11}$ is : 0.058031393209039286
- Maximum value for $\mu_{11}$ is : 1.975788793927787

$\mu_{11}'$ :

- The average value for $\mu_{11}'$ is : 0.3309685941848252
- Standard deviation for $\mu_{11}'$ is : 0.22155702677758765
- Minimum value for $\mu_{11}'$ is : 0.0724
- Maximum value for $\mu_{11}'$ is : 2.2649599043224953

$\tilde{\mu_2}$ :

- The average value for $\tilde{\mu_2}$ is : 2.1614126132695595
- Standard deviation for $\tilde{\mu_2}$ is : 1.2224508711118018
- Minimum value for $\tilde{\mu_2}$ is : 0.28205967380986124
- Maximum value for $\tilde{\mu_2}$ is : 9.44110403644189

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

$m_H(GeV)$ :

- The average value for $m_H(GeV)$ is : 122.84305475244341
- Standard deviation for $m_H(GeV)$ is : 13.908945779152598
- Minimum value for $m_H(GeV)$ is : 86.79643281789266
- Maximum value for $m_H(GeV)$ is : 161.3841028130086

$m_{\psi_D}(GeV)$ :

- The average value for $m_{\psi_D}(GeV)$ is : 2734.574941233768
- Standard deviation for $m_{\psi_D}(GeV)$ is : 1152.5425238706273
- Minimum value for $m_{\psi_D}(GeV)$ is : 694.1733143694274
- Maximum value for $m_{\psi_D}(GeV)$ is : 8729.66552372864

$m_\tau(GeV)$ :

- The average value for $m_\tau(GeV)$ is : 1.7769140679072317
- Standard deviation for $m_\tau(GeV)$ is : 0.18247444573836716
- Minimum value for $m_\tau(GeV)$ is : 1.2626331172704428
- Maximum value for $m_\tau(GeV)$ is : 2.3080171899966304

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

- The average value for $m_\tau^{(1)}(GeV)$ is : 1314.4519057039674
- Standard deviation for $m_\tau^{(1)}(GeV)$ is : 769.7172127942016
- Minimum value for $m_\tau^{(1)}(GeV)$ is : 561.3914538370027
- Maximum value for $m_\tau^{(1)}(GeV)$ is : 7999.4966096127

$m_\nu(eV)$ :

- The average value for $m_\nu(eV)$ is : 0.08466320694690922

- Standard deviation for $m_\nu(eV)$ is : 0.05824352936517575
- Minimum value for $m_\nu(eV)$ is : 0.010304181831299724
- Maximum value for $m_\nu(eV)$ is : 0.5395087140150365

$m_b(GeV)$ :

- The average value for $m_b(GeV)$ is : 4.154620086446668
- Standard deviation for $m_b(GeV)$ is : 0.3284129932126657
- Minimum value for $m_b(GeV)$ is : 2.546837301042742
- Maximum value for $m_b(GeV)$ is : 5.766921175956056

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

- The average value for $m_b^{(1)}(GeV)$ is : 4064.5677770533375
- Standard deviation for $m_b^{(1)}(GeV)$ is : 2013.1124820856567
- Minimum value for $m_b^{(1)}(GeV)$ is : 713.1222160799807
- Maximum value for $m_b^{(1)}(GeV)$ is : 15695.89257173306

$m_t(GeV)$ :

- The average value for $m_t(GeV)$ is : 175.51617266257458
- Standard deviation for $m_t(GeV)$ is : 15.376791636387408
- Minimum value for $m_t(GeV)$ is : 116.2851872676181
- Maximum value for $m_t(GeV)$ is : 221.34674119746327

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

- The average value for $\langle\theta_H\rangle(rads)$ is : 0.12697540754755748
- Standard deviation for $\langle\theta_H\rangle(rads)$ is : 0.06867992436284016
- Minimum value for $\langle\theta_H\rangle(rads)$ is : 0.026101363074784726
- Maximum value for $\langle\theta_H\rangle(rads)$ is : 0.43033189033086183

$m_Z(GeV)$ :

- The average value for $m_Z(GeV)$ is : 89.27350639451191
- Standard deviation for $m_Z(GeV)$ is : 6.874347593975904
- Minimum value for $m_Z(GeV)$ is : 66.47008184588033
- Maximum value for $m_Z(GeV)$ is : 111.28154325481512

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

- The average value for $m_{W^{\pm}}(GeV)$ is : 78.27611817230638
- Standard deviation for $m_{W^{\pm}}(GeV)$ is : 6.027513271917899
- Minimum value for $m_{W^{\pm}}(GeV)$ is : 58.28179256786604
- Maximum value for $m_{W^{\pm}}(GeV)$ is : 97.57303798191603

$m_{Z'}(GeV)$ :

- The average value for $m_{Z'}(GeV)$ is : 13664.293600690913
- Standard deviation for $m_{Z'}(GeV)$ is : 6532.468539299777
- Minimum value for $m_{Z'}(GeV)$ is : 3140.2627514624337
- Maximum value for $m_{Z'}(GeV)$ is : 52363.544933920304

$T$ :

- 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 : 0.981048211236296
- Standard deviation for $y_t$ is : 0.013373492752483427
- Minimum value for $y_t$ is : 0.9009470970050025
- Maximum value for $y_t$ is : 0.9909915464253298

$\tau_H$ :

- The average value for $\tau_H$ is : 28.570658174713376
- Standard deviation for $\tau_H$ is : 8.262779198087452
- Minimum value for $\tau_H$ is : 11.672665243464348
- Maximum value for $\tau_H$ is : 55.155977856324014

$\sigma(hh)(fb)$ :

- The average value for $\sigma(hh)(fb)$ is : 17.914329147320533
- Standard deviation for $\sigma(hh)(fb)$ is : 6.348018422792773

- Minimum value for $\sigma(hh)(fb)$ is : 4.647728334312532
- Maximum value for $\sigma(hh)(fb)$ is : 55.652538431163144

$\Delta_{HH}$ :

- The average value for $\Delta_{HH}$ is : 0.12242119934844437
- Standard deviation for $\Delta_{HH}$ is : 0.040461698414371104
- Minimum value for $\Delta_{HH}$ is : 0.033834985074388126
- Maximum value for $\Delta_{HH}$ is : 0.37471161486103505

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

$\chi^2_G$ :

- The average value for $\chi^2_G$ is : 391.3325572836604
- Standard deviation for $\chi^2_G$ is : 258.853816629113
- Minimum value for $\chi^2_G$ is : 20.758817868524343
- Maximum value for $\chi^2_G$ is : 999.9465022756867