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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 25.09.2019, 19:17
Block SPINFO # Program information
  1 SPhenoSARAH # spectrum calculator
  2 v3.3.6 # version number of SPheno
  9 4.5.9b3 # version number of SARAH
Block MODSEL # Input parameters
  1 0 # SUSY Scale input
  2 1 # Boundary conditions
  6 1 # switching on flavour violation
Block MINPAR # Input parameters
  3 1.33871069E+01 # TanBeta
Block EXTPAR # Input parameters
  65 1.12788466E+03 # vR1Input
  66 1.12788466E+03 # vR2Input
  67 1.12788466E+03 # vR3Input
  200 1.50000007E-04 # vL1Input
  201 4.00999998E-04 # vL2Input
  202 5.49999997E-04 # vL3Input
Block SMINPUTS # SM parameters
  1 1.27932000E+02 # alpha_em^-1(MZ)^MSbar
  2 1.16637000E-05 # G_mu [GeV^-2]
  3 1.18700000E-01 # alpha_s(MZ)^MSbar
  4 9.11887000E+01 # m_Z(pole)
  5 4.20000000E+00 # m_b(m_b), MSbar
  6 1.72600000E+02 # m_t(pole)
  7 1.77669000E+00 # m_tau(pole)
Block MSOFT # (SUSY Scale)
  21 8.94185632E+05 # mHd2
  22 2.56258998E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 1.77870243E+01 # vd
  103 2.38116796E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 1.89261447E-04 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 3.58944122E-03 # Real(Yd(2,2),dp)
  2 3 0.00000000E+00 # Real(Yd(2,3),dp)
  3 1 0.00000000E+00 # Real(Yd(3,1),dp)
  3 2 0.00000000E+00 # Real(Yd(3,2),dp)
  3 3 1.85998313E-01 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 3.83594584E-05 # Real(Ye(1,1),dp)
  1 2 0.00000000E+00 # Real(Ye(1,2),dp)
  1 3 0.00000000E+00 # Real(Ye(1,3),dp)
  2 1 0.00000000E+00 # Real(Ye(2,1),dp)
  2 2 8.10757934E-03 # Real(Ye(2,2),dp)

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2 3      0.00000000E+00 # Real(Ye(2,3),dp)
3 1      0.00000000E+00 # Real(Ye(3,1),dp)
3 2      0.00000000E+00 # Real(Ye(3,2),dp)
3 3      1.37828851E-01 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
1 5.29293680E-02 # Real(lam(1), dp)
2 5.29293680E-02 # Real(lam(2), dp)
3 5.29293680E-02 # Real(lam(3), dp)
Block Yv # (SUSY Scale)
1 1 2.00000002E-07 # Real(Yv(1,1), dp)
1 2 0.00000000E+00 # Real(Yv(1,2), dp)
1 3 0.00000000E+00 # Real(Yv(1,3), dp)
2 1 0.00000000E+00 # Real(Yv(2,1), dp)
2 2 4.00000005E-07 # Real(Yv(2,2), dp)
2 3 0.00000000E+00 # Real(Yv(2,3), dp)
3 1 0.00000000E+00 # Real(Yv(3,1), dp)
3 2 0.00000000E+00 # Real(Yv(3,2), dp)
3 3 5.00000006E-08 # Real(Yv(3,3), dp)
Block Yu # (SUSY Scale)
1 1 5.96562023E-06 # Real(Yu(1,1), dp)
1 2 1.37984507E-06 # Real(Yu(1,2), dp)
1 3 2.09717699E-08 # Real(Yu(1,3), dp)
2 1 -6.72382151E-04 # Real(Yu(2,1), dp)
2 2 2.90510795E-03 # Real(Yu(2,2), dp)
2 3 1.22912395E-04 # Real(Yu(2,3), dp)
3 1 4.98301939E-03 # Real(Yu(3,1), dp)
3 2 -3.42679065E-02 # Real(Yu(3,2), dp)
3 3 8.37201658E-01 # Real(Yu(3,3), dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
1 1 1 5.82622859E-01 # Real(kap(1,1,1), dp)
1 1 2 0.00000000E+00 # Real(kap(1,1,2), dp)
1 1 3 0.00000000E+00 # Real(kap(1,1,3), dp)
1 2 1 0.00000000E+00 # Real(kap(1,2,1), dp)
1 2 2 0.00000000E+00 # Real(kap(1,2,2), dp)
1 2 3 0.00000000E+00 # Real(kap(1,2,3), dp)
1 3 1 0.00000000E+00 # Real(kap(1,3,1), dp)
1 3 2 0.00000000E+00 # Real(kap(1,3,2), dp)
1 3 3 0.00000000E+00 # Real(kap(1,3,3), dp)
2 1 1 0.00000000E+00 # Real(kap(2,1,1), dp)
2 1 2 0.00000000E+00 # Real(kap(2,1,2), dp)
2 1 3 0.00000000E+00 # Real(kap(2,1,3), dp)
2 2 1 0.00000000E+00 # Real(kap(2,2,1), dp)
2 2 2 5.94275305E-01 # Real(kap(2,2,2), dp)
2 2 3 0.00000000E+00 # Real(kap(2,2,3), dp)
2 3 1 0.00000000E+00 # Real(kap(2,3,1), dp)
2 3 2 0.00000000E+00 # Real(kap(2,3,2), dp)
2 3 3 0.00000000E+00 # Real(kap(2,3,3), dp)
3 1 1 0.00000000E+00 # Real(kap(3,1,1), dp)
3 1 2 0.00000000E+00 # Real(kap(3,1,2), dp)
3 1 3 0.00000000E+00 # Real(kap(3,1,3), dp)
3 2 1 0.00000000E+00 # Real(kap(3,2,1), dp)
3 2 2 0.00000000E+00 # Real(kap(3,2,2), dp)
3 2 3 0.00000000E+00 # Real(kap(3,2,3), dp)
3 3 1 0.00000000E+00 # Real(kap(3,3,1), dp)
3 3 2 0.00000000E+00 # Real(kap(3,3,2), dp)
3 3 3 6.05927751E-01 # Real(kap(3,3,3), dp)
Block Td # (SUSY Scale)
1 1 0.00000000E+00 # Real(Td(1,1), dp)
1 2 0.00000000E+00 # Real(Td(1,2), dp)
1 3 0.00000000E+00 # Real(Td(1,3), dp)
2 1 0.00000000E+00 # Real(Td(2,1), dp)
2 2 0.00000000E+00 # Real(Td(2,2), dp)
2 3 0.00000000E+00 # Real(Td(2,3), dp)
3 1 0.00000000E+00 # Real(Td(3,1), dp)
3 2 0.00000000E+00 # Real(Td(3,2), dp)
3 3 1.00000000E+02 # Real(Td(3,3), dp)
Block Te # (SUSY Scale)
1 1 0.00000000E+00 # Real(Te(1,1), dp)
1 2 0.00000000E+00 # Real(Te(1,2), dp)
1 3 0.00000000E+00 # Real(Te(1,3), dp)
2 1 0.00000000E+00 # Real(Te(2,1), dp)
2 2 0.00000000E+00 # Real(Te(2,2), dp)
2 3 0.00000000E+00 # Real(Te(2,3), dp)

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3 1      0.00000000E+00 # Real(Te(3,1),dp)
3 2      0.00000000E+00 # Real(Te(3,2),dp)
3 3      4.00000000E+01 # Real(Te(3,3),dp)
Block {NMSSMRUN, 3} # (SUSY Scale)
  1      4.53177458E+00 # Real(Tlam(1) ,dp)
  2      4.53177458E+00 # Real(Tlam(2) ,dp)
  3      4.53177458E+00 # Real(Tlam(3) ,dp)
Block Tv # (SUSY Scale)
  1 1     -1.00000005E-03 # Real(Tv(1,1),dp)
  1 2      0.00000000E+00 # Real(Tv(1,2),dp)
  1 3      0.00000000E+00 # Real(Tv(1,3),dp)
  2 1      0.00000000E+00 # Real(Tv(2,1),dp)
  2 2     -1.00000005E-03 # Real(Tv(2,2),dp)
  2 3      0.00000000E+00 # Real(Tv(2,3),dp)
  3 1      0.00000000E+00 # Real(Tv(3,1),dp)
  3 2      0.00000000E+00 # Real(Tv(3,2),dp)
  3 3     -3.00000014E-04 # Real(Tv(3,3),dp)
Block Tu # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Tu(1,1),dp)
  1 2      0.00000000E+00 # Real(Tu(1,2),dp)
  1 3      0.00000000E+00 # Real(Tu(1,3),dp)
  2 1      0.00000000E+00 # Real(Tu(2,1),dp)
  2 2      0.00000000E+00 # Real(Tu(2,2),dp)
  2 3      0.00000000E+00 # Real(Tu(2,3),dp)
  3 1      0.00000000E+00 # Real(Tu(3,1),dp)
  3 2      0.00000000E+00 # Real(Tu(3,2),dp)
  3 3     -2.59793920E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1    -4.08536711E-01 # Real(Tk(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(Tk(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(Tk(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(Tk(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(Tk(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(Tk(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(Tk(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(Tk(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(Tk(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(Tk(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(Tk(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(Tk(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(Tk(2,2,1),dp)
  2 2 2     -4.08536711E-01 # Real(Tk(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(Tk(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(Tk(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(Tk(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(Tk(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(Tk(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(Tk(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(Tk(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(Tk(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(Tk(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(Tk(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(Tk(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(Tk(3,3,2),dp)
  3 3 3     -4.08536711E-01 # Real(Tk(3,3,3),dp)
Block MSQ2 # (SUSY Scale)
  1 1      1.00000000E+06 # Real(mq2(1,1),dp)
  1 2      0.00000000E+00 # Real(mq2(1,2),dp)
  1 3      0.00000000E+00 # Real(mq2(1,3),dp)
  2 1      0.00000000E+00 # Real(mq2(2,1),dp)
  2 2      1.00000000E+06 # Real(mq2(2,2),dp)
  2 3      0.00000000E+00 # Real(mq2(2,3),dp)
  3 1      0.00000000E+00 # Real(mq2(3,1),dp)
  3 2      0.00000000E+00 # Real(mq2(3,2),dp)
  3 3      2.77976977E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      1.15027134E+06 # Real(ml2(1,1),dp)
  1 2      0.00000000E+00 # Real(ml2(1,2),dp)
  1 3      0.00000000E+00 # Real(ml2(1,3),dp)
  2 1      0.00000000E+00 # Real(ml2(2,1),dp)
  2 2      3.73710593E+05 # Real(ml2(2,2),dp)
  2 3      0.00000000E+00 # Real(ml2(2,3),dp)
  3 1      0.00000000E+00 # Real(ml2(3,1),dp)

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3 2      0.00000000E+00 # Real(ml2(3,2),dp)
3 3      7.81542837E+04 # Real(ml2(3,3),dp)
Block MSD2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(md2(1,1),dp)
1 2      0.00000000E+00 # Real(md2(1,2),dp)
1 3      0.00000000E+00 # Real(md2(1,3),dp)
2 1      0.00000000E+00 # Real(md2(2,1),dp)
2 2      1.00000000E+06 # Real(md2(2,2),dp)
2 3      0.00000000E+00 # Real(md2(2,3),dp)
3 1      0.00000000E+00 # Real(md2(3,1),dp)
3 2      0.00000000E+00 # Real(md2(3,2),dp)
3 3      1.00000000E+06 # Real(md2(3,3),dp)
Block MSU2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(mu2(1,1),dp)
1 2      0.00000000E+00 # Real(mu2(1,2),dp)
1 3      0.00000000E+00 # Real(mu2(1,3),dp)
2 1      0.00000000E+00 # Real(mu2(2,1),dp)
2 2      1.00000000E+06 # Real(mu2(2,2),dp)
2 3      0.00000000E+00 # Real(mu2(2,3),dp)
3 1      0.00000000E+00 # Real(mu2(3,1),dp)
3 2      0.00000000E+00 # Real(mu2(3,2),dp)
3 3      2.77976977E+06 # Real(mu2(3,3),dp)
Block MSE2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(me2(1,1),dp)
1 2      0.00000000E+00 # Real(me2(1,2),dp)
1 3      0.00000000E+00 # Real(me2(1,3),dp)
2 1      0.00000000E+00 # Real(me2(2,1),dp)
2 2      1.00000000E+06 # Real(me2(2,2),dp)
2 3      0.00000000E+00 # Real(me2(2,3),dp)
3 1      0.00000000E+00 # Real(me2(3,1),dp)
3 2      0.00000000E+00 # Real(me2(3,2),dp)
3 3      1.00000000E+06 # Real(me2(3,3),dp)
Block mv2 # (SUSY Scale)
1 1      -4.35177886E+05 # Real(mv2(1,1),dp)
1 2      0.00000000E+00 # Real(mv2(1,2),dp)
1 3      0.00000000E+00 # Real(mv2(1,3),dp)
2 1      0.00000000E+00 # Real(mv2(2,1),dp)
2 2      -4.52862011E+05 # Real(mv2(2,2),dp)
2 3      0.00000000E+00 # Real(mv2(2,3),dp)
3 1      0.00000000E+00 # Real(mv2(3,1),dp)
3 2      0.00000000E+00 # Real(mv2(3,2),dp)
3 3      -4.70900439E+05 # Real(mv2(3,3),dp)
Block RVM2LH1 # (SUSY Scale)
1      0.00000000E+00 # mlHd2(1)
2      0.00000000E+00 # mlHd2(2)
3      0.00000000E+00 # mlHd2(3)
Block RIGHTVEV # (SUSY Scale)
1      1.12788466E+03 # vR(1)
2      1.12788466E+03 # vR(2)
3      1.12788466E+03 # vR(3)
Block RVSNEV # (SUSY Scale)
1      1.50000007E-04 # vL(1)
2      4.00999998E-04 # vL(2)
3      5.49999997E-04 # vL(3)
Block MASS # Mass spectrum
# PDG code      mass      particle
1000001      1.00029738E+03 # Sd_1
1000003      1.00029843E+03 # Sd_2
1000005      1.00029911E+03 # Sd_3
2000001      1.00168841E+03 # Sd_4
2000003      1.00168946E+03 # Sd_5
2000005      1.66828026E+03 # Sd_6
1000002      9.98607677E+02 # Su_1
1000004      9.98624621E+02 # Su_2
1000006      9.99402867E+02 # Su_3
2000002      9.99403001E+02 # Su_4
2000004      1.53587421E+03 # Su_5
2000006      1.79900774E+03 # Su_6
      25      1.23858154E+02 # hh_1
      35      3.15421189E+02 # hh_2
1000012      6.32793587E+02 # hh_3
1000014      9.25520591E+02 # hh_4
1000016      9.44038128E+02 # hh_5

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2000012      9.61742688E+02 # hh_6
2000014      9.74171177E+02 # hh_7
2000016      1.08880022E+03 # hh_8
   36      3.67515945E+01 # Ah_2
1000017      4.07205706E+01 # Ah_3
1000018      4.12376052E+01 # Ah_4
1000019      3.15421189E+02 # Ah_5
2000018      6.32793587E+02 # Ah_6
2000019      9.70864633E+02 # Ah_7
2000020      1.08880022E+03 # Ah_8
   37      3.25622447E+02 # Hpm_2
1000011      6.38643061E+02 # Hpm_3
2000011      9.73499638E+02 # Hpm_4
1000013      1.00442825E+03 # Hpm_5
2000013      1.00509945E+03 # Hpm_6
1000015      1.00510199E+03 # Hpm_7
2000015      1.08969610E+03 # Hpm_8
   23      9.11887000E+01 # VZ
   24      8.03497269E+01 # VWm
   1      5.00000000E-03 # Fd_1
   3      9.50000000E-02 # Fd_2
   5      4.20000000E+00 # Fd_3
   2      2.50000000E-03 # Fu_1
   4      1.27000000E+00 # Fu_2
   6      1.72600000E+02 # Fu_3
1000021      2.70000000E+03 # Glu
   12      5.42954686E-13 # Chi_1
   14      2.58260580E-12 # Chi_2
   16      5.21959719E-11 # Chi_3
1000022      1.26660915E+02 # Chi_4
1000023      1.33058726E+02 # Chi_5
1000025      8.86929156E+02 # Chi_6
1000039      9.25513611E+02 # Chi_7
1000045      9.44032199E+02 # Chi_8
1000055      9.62558246E+02 # Chi_9
1000065      1.77359114E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      1.30051008E+02 # Cha_4
1000037      1.77381232E+03 # Cha_5
Block DSQMIX # ( )
 1 1      0.00000000E+00 # Real(ZD(1,1),dp)
 1 2      2.74732255E-02 # Real(ZD(1,2),dp)
 1 3      0.00000000E+00 # Real(ZD(1,3),dp)
 1 4      0.00000000E+00 # Real(ZD(1,4),dp)
 1 5      9.99622540E-01 # Real(ZD(1,5),dp)
 1 6      0.00000000E+00 # Real(ZD(1,6),dp)
 2 1      -1.45022611E-03 # Real(ZD(2,1),dp)
 2 2      -0.00000000E+00 # Real(ZD(2,2),dp)
 2 3      -0.00000000E+00 # Real(ZD(2,3),dp)
 2 4      -9.99998948E-01 # Real(ZD(2,4),dp)
 2 5      -0.00000000E+00 # Real(ZD(2,5),dp)
 2 6      -0.00000000E+00 # Real(ZD(2,6),dp)
 3 1      -0.00000000E+00 # Real(ZD(3,1),dp)
 3 2      -0.00000000E+00 # Real(ZD(3,2),dp)
 3 3      -1.51930943E-03 # Real(ZD(3,3),dp)
 3 4      -0.00000000E+00 # Real(ZD(3,4),dp)
 3 5      -0.00000000E+00 # Real(ZD(3,5),dp)
 3 6      -9.99998846E-01 # Real(ZD(3,6),dp)
 4 1      -9.99998948E-01 # Real(ZD(4,1),dp)
 4 2      0.00000000E+00 # Real(ZD(4,2),dp)
 4 3      0.00000000E+00 # Real(ZD(4,3),dp)
 4 4      1.45022611E-03 # Real(ZD(4,4),dp)
 4 5      0.00000000E+00 # Real(ZD(4,5),dp)
 4 6      0.00000000E+00 # Real(ZD(4,6),dp)
 5 1      0.00000000E+00 # Real(ZD(5,1),dp)
 5 2      9.99622540E-01 # Real(ZD(5,2),dp)
 5 3      0.00000000E+00 # Real(ZD(5,3),dp)
 5 4      0.00000000E+00 # Real(ZD(5,4),dp)
 5 5      -2.74732255E-02 # Real(ZD(5,5),dp)
 5 6      0.00000000E+00 # Real(ZD(5,6),dp)
 6 1      0.00000000E+00 # Real(ZD(6,1),dp)

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6 2      0.00000000E+00 # Real(ZD(6,2),dp)
6 3     -9.99998846E-01 # Real(ZD(6,3),dp)
6 4      0.00000000E+00 # Real(ZD(6,4),dp)
6 5      0.00000000E+00 # Real(ZD(6,5),dp)
6 6      1.51930943E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -9.89508400E-01 # Real(ZU(1,1),dp)
1 2     -1.44475139E-01 # Real(ZU(1,2),dp)
1 3     -2.77985094E-07 # Real(ZU(1,3),dp)
1 4     -6.11768265E-06 # Real(ZU(1,4),dp)
1 5      2.46188480E-04 # Real(ZU(1,5),dp)
1 6     -4.99205577E-08 # Real(ZU(1,6),dp)
2 1     -1.44473716E-01 # Real(ZU(2,1),dp)
2 2      9.89503838E-01 # Real(ZU(2,2),dp)
2 3      4.77593527E-04 # Real(ZU(2,3),dp)
2 4      5.15744464E-07 # Real(ZU(2,4),dp)
2 5      3.04361093E-03 # Real(ZU(2,5),dp)
2 6      8.57155608E-05 # Real(ZU(2,6),dp)
3 1      5.97910958E-06 # Real(ZU(3,1),dp)
3 2      1.39364967E-06 # Real(ZU(3,2),dp)
3 3      2.28261706E-10 # Real(ZU(3,3),dp)
3 4     -1.00000000E+00 # Real(ZU(3,4),dp)
3 5      1.79664204E-07 # Real(ZU(3,5),dp)
3 6      3.97516582E-11 # Real(ZU(3,6),dp)
4 1     -6.83330542E-04 # Real(ZU(4,1),dp)
4 2      2.97611051E-03 # Real(ZU(4,2),dp)
4 3      1.33917440E-06 # Real(ZU(4,3),dp)
4 4     -1.79601418E-07 # Real(ZU(4,4),dp)
4 5     -9.99995338E-01 # Real(ZU(4,5),dp)
4 6      2.33215192E-07 # Real(ZU(4,6),dp)
5 1     -5.73548950E-05 # Real(ZU(5,1),dp)
5 2      3.94429026E-04 # Real(ZU(5,2),dp)
5 3     -7.07760049E-01 # Real(ZU(5,3),dp)
5 4      1.71455491E-11 # Real(ZU(5,4),dp)
5 5      1.00487528E-07 # Real(ZU(5,5),dp)
5 6     -7.06452797E-01 # Real(ZU(5,6),dp)
6 1     -3.98215660E-05 # Real(ZU(6,1),dp)
6 2      2.73852242E-04 # Real(ZU(6,2),dp)
6 3     -7.06452748E-01 # Real(ZU(6,3),dp)
6 4      1.04461108E-11 # Real(ZU(6,4),dp)
6 5      6.12231016E-08 # Real(ZU(6,5),dp)
6 6      7.07760156E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1      7.63057686E-02 # ZH(1,1)
1 2      9.97082989E-01 # ZH(1,2)
1 3     -1.05722857E-03 # ZH(1,3)
1 4     -9.87335449E-04 # ZH(1,4)
1 5     -9.22107773E-04 # ZH(1,5)
1 6      6.36425507E-07 # ZH(1,6)
1 7      1.78524728E-06 # ZH(1,7)
1 8      2.95778464E-06 # ZH(1,8)
2 1      2.41133705E-07 # ZH(2,1)
2 2      2.94792695E-06 # ZH(2,2)
2 3     -3.27115133E-09 # ZH(2,3)
2 4     -3.03718915E-09 # ZH(2,4)
2 5     -5.47337763E-08 # ZH(2,5)
2 6      2.02645310E-12 # ZH(2,6)
2 7      6.74946394E-12 # ZH(2,7)
2 8     -1.00000000E+00 # ZH(2,8)
3 1     -1.47605296E-07 # ZH(3,1)
3 2     -1.77895167E-06 # ZH(3,2)
3 3      3.57610680E-09 # ZH(3,3)
3 4      2.17976481E-07 # ZH(3,4)
3 5      2.92413206E-09 # ZH(3,5)
3 6     -1.75526516E-12 # ZH(3,6)
3 7      1.00000000E+00 # ZH(3,7)
3 8      1.46881796E-12 # ZH(3,8)
4 1     -1.16855566E-01 # ZH(4,1)
4 2      7.84497537E-03 # ZH(4,2)
4 3     -9.92503901E-01 # ZH(4,3)
4 4     -3.10831179E-02 # ZH(4,4)
4 5     -1.59084815E-02 # ZH(4,5)
4 6     -4.25218181E-07 # ZH(4,6)

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4	7	7.07853878E-09	# ZH(4,7)
4	8	-8.39634170E-10	# ZH(4,8)
5	1	-1.95437642E-01	# ZH(5,1)
5	2	1.40001683E-02	# ZH(5,2)
5	3	5.45427062E-02	# ZH(5,3)
5	4	-9.77831680E-01	# ZH(5,4)
5	5	-4.97837609E-02	# ZH(5,5)
5	6	4.73809996E-08	# ZH(5,6)
5	7	2.09152824E-07	# ZH(5,7)
5	8	-3.38833453E-10	# ZH(5,8)
6	1	-4.74372702E-01	# ZH(6,1)
6	2	3.57140499E-02	# ZH(6,2)
6	3	6.55257866E-02	# ZH(6,3)
6	4	1.43038729E-01	# ZH(6,4)
6	5	-8.65413970E-01	# ZH(6,5)
6	6	9.83101487E-08	# ZH(6,6)
6	7	-3.53691753E-08	# ZH(6,7)
6	8	3.76137574E-08	# ZH(6,8)
7	1	8.46933807E-01	# ZH(7,1)
7	2	-6.55169554E-02	# ZH(7,2)
7	3	-8.75577163E-02	# ZH(7,3)
7	4	-1.49726394E-01	# ZH(7,4)
7	5	-4.98323497E-01	# ZH(7,5)
7	6	-1.79786687E-07	# ZH(7,6)
7	7	4.28675291E-08	# ZH(7,7)
7	8	3.91013765E-08	# ZH(7,8)
8	1	-1.09911056E-07	# ZH(8,1)
8	2	6.47186693E-07	# ZH(8,2)
8	3	4.46125705E-07	# ZH(8,3)
8	4	7.23907008E-09	# ZH(8,4)
8	5	8.33187247E-09	# ZH(8,5)
8	6	-1.00000000E+00	# ZH(8,6)
8	7	-6.23247582E-13	# ZH(8,7)
8	8	-1.47034628E-13	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	7.44806908E-02	# ZA(1,1)
1	2	-9.97222454E-01	# ZA(1,2)
1	3	-2.88849525E-05	# ZA(1,3)
1	4	-3.08679361E-05	# ZA(1,4)
1	5	-3.52241856E-05	# ZA(1,5)
1	6	6.23842055E-07	# ZA(1,6)
1	7	1.68124823E-06	# ZA(1,7)
1	8	2.30172694E-06	# ZA(1,8)
2	1	-1.43961032E-02	# ZA(2,1)
2	2	-1.12973778E-03	# ZA(2,2)
2	3	6.27864163E-01	# ZA(2,3)
2	4	5.73278315E-01	# ZA(2,4)
2	5	5.26241430E-01	# ZA(2,5)
2	6	1.08384706E-07	# ZA(2,6)
2	7	3.43554942E-07	# ZA(2,7)
2	8	3.29803851E-07	# ZA(2,8)
3	1	-9.16844439E-04	# ZA(3,1)
3	2	-7.36932231E-05	# ZA(3,2)
3	3	-7.51448231E-01	# ZA(3,3)
3	4	6.22658775E-01	# ZA(3,4)
3	5	2.18221813E-01	# ZA(3,5)
3	6	-1.29386257E-07	# ZA(3,6)
3	7	3.74053945E-07	# ZA(3,7)
3	8	1.36755087E-07	# ZA(3,8)
4	1	9.03549149E-04	# ZA(4,1)
4	2	7.41608597E-05	# ZA(4,2)
4	3	2.02595732E-01	# ZA(4,3)
4	4	5.32520404E-01	# ZA(4,4)
4	5	-8.21812733E-01	# ZA(4,5)
4	6	3.48691792E-08	# ZA(4,6)
4	7	3.19982216E-07	# ZA(4,7)
4	8	-5.14969915E-07	# ZA(4,8)
5	1	-1.79099648E-07	# ZA(5,1)
5	2	2.29478341E-06	# ZA(5,2)
5	3	-1.73021126E-11	# ZA(5,3)
5	4	-2.72613109E-11	# ZA(5,4)
5	5	-6.26638599E-07	# ZA(5,5)
5	6	-1.55545960E-12	# ZA(5,6)

5	7	-5.03914849E-12	# ZA(5,7)
5	8	1.00000000E+00	# ZA(5,8)
6	1	1.26212998E-07	# ZA(6,1)
6	2	-1.67652291E-06	# ZA(6,2)
6	3	-5.48637973E-10	# ZA(6,3)
6	4	6.00256026E-07	# ZA(6,4)
6	5	-5.53750543E-10	# ZA(6,5)
6	6	1.62801413E-12	# ZA(6,6)
6	7	-1.00000000E+00	# ZA(6,7)
6	8	-1.16961747E-12	# ZA(6,8)
7	1	-9.97117707E-01	# ZA(7,1)
7	2	-7.44720692E-02	# ZA(7,2)
7	3	-8.19254563E-03	# ZA(7,3)
7	4	-8.36911797E-03	# ZA(7,4)
7	5	-8.54570433E-03	# ZA(7,5)
7	6	1.26595838E-07	# ZA(7,6)
7	7	-6.00947130E-09	# ZA(7,7)
7	8	-1.30415993E-08	# ZA(7,8)
8	1	8.11769492E-08	# ZA(8,1)
8	2	6.31647484E-07	# ZA(8,2)
8	3	-1.71287132E-07	# ZA(8,3)
8	4	9.39089874E-10	# ZA(8,4)
8	5	9.58141209E-10	# ZA(8,5)
8	6	1.00000000E+00	# ZA(8,6)
8	7	5.79732641E-13	# ZA(8,7)
8	8	1.21101659E-13	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	7.44516528E-02	# ZP(1,1)
1	2	-9.97224624E-01	# ZP(1,2)
1	3	6.27908915E-07	# ZP(1,3)
1	4	1.67716108E-06	# ZP(1,4)
1	5	2.29150846E-06	# ZP(1,5)
1	6	-2.41605059E-16	# ZP(1,6)
1	7	-3.65383253E-13	# ZP(1,7)
1	8	-2.82983842E-11	# ZP(1,8)
2	1	-1.87164708E-07	# ZP(2,1)
2	2	2.28390380E-06	# ZP(2,2)
2	3	-1.57013350E-12	# ZP(2,3)
2	4	-5.23152183E-12	# ZP(2,4)
2	5	9.99996268E-01	# ZP(2,5)
2	6	-1.38003648E-19	# ZP(2,6)
2	7	-4.05067761E-16	# ZP(2,7)
2	8	2.73193978E-03	# ZP(2,8)
3	1	1.45115950E-07	# ZP(3,1)
3	2	-1.67099453E-06	# ZP(3,2)
3	3	1.66601678E-12	# ZP(3,3)
3	4	-9.99999958E-01	# ZP(3,4)
3	5	-1.38791866E-12	# ZP(3,5)
3	6	6.35554145E-19	# ZP(3,6)
3	7	-2.88316100E-04	# ZP(3,7)
3	8	-2.08153029E-14	# ZP(3,8)
4	1	9.97224624E-01	# ZP(4,1)
4	2	7.44516528E-02	# ZP(4,2)
4	3	-1.51615359E-07	# ZP(4,3)
4	4	2.03031649E-08	# ZP(4,4)
4	5	1.59771467E-08	# ZP(4,5)
4	6	1.24463651E-11	# ZP(4,6)
4	7	6.00004348E-09	# ZP(4,7)
4	8	2.29783832E-07	# ZP(4,8)
5	1	2.28633519E-07	# ZP(5,1)
5	2	2.33755808E-08	# ZP(5,2)
5	3	-7.78194803E-14	# ZP(5,3)
5	4	1.10912350E-14	# ZP(5,4)
5	5	2.73193978E-03	# ZP(5,5)
5	6	2.94554626E-16	# ZP(5,6)
5	7	1.74414352E-13	# ZP(5,7)
5	8	-9.99996268E-01	# ZP(5,8)
6	1	-5.94152487E-09	# ZP(6,1)
6	2	-9.28852333E-10	# ZP(6,2)
6	3	3.44415343E-15	# ZP(6,3)
6	4	-2.88316100E-04	# ZP(6,4)
6	5	-5.76424300E-16	# ZP(6,5)
6	6	-2.17585068E-11	# ZP(6,6)

6	7	9.99999958E-01	# ZP(6,7)
6	8	1.73030101E-13	# ZP(6,8)
7	1	-1.18810812E-11	# ZP(7,1)
7	2	2.31238461E-12	# ZP(7,2)
7	3	5.08158582E-06	# ZP(7,3)
7	4	-6.26987986E-15	# ZP(7,4)
7	5	-9.94093290E-20	# ZP(7,5)
7	6	1.00000000E+00	# ZP(7,6)
7	7	2.17584989E-11	# ZP(7,7)
7	8	2.91497413E-16	# ZP(7,8)
8	1	-1.04445713E-07	# ZP(8,1)
8	2	-6.37454246E-07	# ZP(8,2)
8	3	-1.00000000E+00	# ZP(8,3)
8	4	-6.15660053E-13	# ZP(8,4)
8	5	-1.33904244E-13	# ZP(8,5)
8	6	5.08158582E-06	# ZP(8,6)
8	7	2.16384151E-15	# ZP(8,7)
8	8	3.86731563E-14	# ZP(8,8)
Block UVMIX # ()			
1	1	-0.00000000E+00	# Real(UV(1,1), dp)
1	2	-0.00000000E+00	# Real(UV(1,2), dp)
1	3	0.00000000E+00	# Real(UV(1,3), dp)
1	4	0.00000000E+00	# Real(UV(1,4), dp)
1	5	-0.00000000E+00	# Real(UV(1,5), dp)
1	6	-0.00000000E+00	# Real(UV(1,6), dp)
1	7	-0.00000000E+00	# Real(UV(1,7), dp)
1	8	0.00000000E+00	# Real(UV(1,8), dp)
1	9	0.00000000E+00	# Real(UV(1,9), dp)
1	10	-0.00000000E+00	# Real(UV(1,10), dp)
2	1	-0.00000000E+00	# Real(UV(2,1), dp)
2	2	0.00000000E+00	# Real(UV(2,2), dp)
2	3	-0.00000000E+00	# Real(UV(2,3), dp)
2	4	-0.00000000E+00	# Real(UV(2,4), dp)
2	5	0.00000000E+00	# Real(UV(2,5), dp)
2	6	0.00000000E+00	# Real(UV(2,6), dp)
2	7	0.00000000E+00	# Real(UV(2,7), dp)
2	8	0.00000000E+00	# Real(UV(2,8), dp)
2	9	-0.00000000E+00	# Real(UV(2,9), dp)
2	10	0.00000000E+00	# Real(UV(2,10), dp)
3	1	-0.00000000E+00	# Real(UV(3,1), dp)
3	2	-0.00000000E+00	# Real(UV(3,2), dp)
3	3	-0.00000000E+00	# Real(UV(3,3), dp)
3	4	-0.00000000E+00	# Real(UV(3,4), dp)
3	5	0.00000000E+00	# Real(UV(3,5), dp)
3	6	-0.00000000E+00	# Real(UV(3,6), dp)
3	7	0.00000000E+00	# Real(UV(3,7), dp)
3	8	-0.00000000E+00	# Real(UV(3,8), dp)
3	9	0.00000000E+00	# Real(UV(3,9), dp)
3	10	-0.00000000E+00	# Real(UV(3,10), dp)
4	1	9.45158997E-07	# Real(UV(4,1), dp)
4	2	1.89476801E-06	# Real(UV(4,2), dp)
4	3	3.22471486E-07	# Real(UV(4,3), dp)
4	4	-4.19153855E-02	# Real(UV(4,4), dp)
4	5	3.61757443E-02	# Real(UV(4,5), dp)
4	6	-7.14418588E-01	# Real(UV(4,6), dp)
4	7	6.97413994E-01	# Real(UV(4,7), dp)
4	8	-7.33274835E-03	# Real(UV(4,8), dp)
4	9	-7.16612517E-03	# Real(UV(4,9), dp)
4	10	-7.00683488E-03	# Real(UV(4,10), dp)
5	1	-0.00000000E+00	# Real(UV(5,1), dp)
5	2	-0.00000000E+00	# Real(UV(5,2), dp)
5	3	-0.00000000E+00	# Real(UV(5,3), dp)
5	4	-0.00000000E+00	# Real(UV(5,4), dp)
5	5	0.00000000E+00	# Real(UV(5,5), dp)
5	6	0.00000000E+00	# Real(UV(5,6), dp)
5	7	0.00000000E+00	# Real(UV(5,7), dp)
5	8	0.00000000E+00	# Real(UV(5,8), dp)
5	9	0.00000000E+00	# Real(UV(5,9), dp)
5	10	0.00000000E+00	# Real(UV(5,10), dp)
6	1	1.99896565E-08	# Real(UV(6,1), dp)
6	2	5.99011431E-08	# Real(UV(6,2), dp)
6	3	1.05205023E-07	# Real(UV(6,3), dp)
6	4	-9.98738798E-01	# Real(UV(6,4), dp)

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6 5 -4.51024774E-03 # Real(UV(6,5),dp)
6 6 1.06906589E-02 # Real(UV(6,6),dp)
6 7 -4.88469234E-02 # Real(UV(6,7),dp)
6 8 -3.05344492E-04 # Real(UV(6,8),dp)
6 9 -2.03925249E-04 # Real(UV(6,9),dp)
6 10 -1.53113643E-04 # Real(UV(6,10),dp)
7 1 3.61335091E-08 # Real(UV(7,1),dp)
7 2 4.20725131E-10 # Real(UV(7,2),dp)
7 3 1.07862793E-10 # Real(UV(7,3),dp)
7 4 -4.40854794E-04 # Real(UV(7,4),dp)
7 5 1.26873939E-04 # Real(UV(7,5),dp)
7 6 -9.64238353E-03 # Real(UV(7,6),dp)
7 7 6.30717082E-04 # Real(UV(7,7),dp)
7 8 9.99951192E-01 # Real(UV(7,8),dp)
7 9 1.78235731E-03 # Real(UV(7,9),dp)
7 10 9.23992028E-04 # Real(UV(7,10),dp)
8 1 6.21324014E-11 # Real(UV(8,1),dp)
8 2 7.08928127E-08 # Real(UV(8,2),dp)
8 3 1.02236448E-10 # Real(UV(8,3),dp)
8 4 -3.34444116E-04 # Real(UV(8,4),dp)
8 5 1.24775883E-04 # Real(UV(8,5),dp)
8 6 -9.42374519E-03 # Real(UV(8,6),dp)
8 7 5.95026434E-04 # Real(UV(8,7),dp)
8 8 -1.87561283E-03 # Real(UV(8,8),dp)
8 9 9.99951604E-01 # Real(UV(8,9),dp)
8 10 1.99601558E-03 # Real(UV(8,10),dp)
9 1 -8.30210982E-11 # Real(UV(9,1),dp)
9 2 -9.93593481E-11 # Real(UV(9,2),dp)
9 3 -8.73658057E-09 # Real(UV(9,3),dp)
9 4 2.79028451E-04 # Real(UV(9,4),dp)
9 5 -1.22584180E-04 # Real(UV(9,5),dp)
9 6 9.20754512E-03 # Real(UV(9,6),dp)
9 7 -5.59210108E-04 # Real(UV(9,7),dp)
9 8 1.00955697E-03 # Real(UV(9,8),dp)
9 9 2.08513058E-03 # Real(UV(9,9),dp)
9 10 -9.99954723E-01 # Real(UV(9,10),dp)
10 1 -2.36567370E-08 # Real(UV(10,1),dp)
10 2 -6.60415209E-08 # Real(UV(10,2),dp)
10 3 -1.00822022E-07 # Real(UV(10,3),dp)
10 4 2.22809128E-03 # Real(UV(10,4),dp)
10 5 -9.98951835E-01 # Real(UV(10,5),dp)
10 6 -6.54372149E-03 # Real(UV(10,6),dp)
10 7 4.52486655E-02 # Real(UV(10,7),dp)
10 8 3.59884409E-05 # Real(UV(10,8),dp)
10 9 3.67939101E-05 # Real(UV(10,9),dp)
10 10 3.76370272E-05 # Real(UV(10,10),dp)

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Block IMUVMIX # ()

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1 1 -8.39611319E-01 # Aimag(UV(1,1))
1 2 -2.64206184E-01 # Aimag(UV(1,2))
1 3 4.74602913E-01 # Aimag(UV(1,3))
1 4 2.43374387E-10 # Aimag(UV(1,4))
1 5 -8.72512686E-11 # Aimag(UV(1,5))
1 6 -1.59732736E-06 # Aimag(UV(1,6))
1 7 -1.67331116E-11 # Aimag(UV(1,7))
1 8 1.50075210E-08 # Aimag(UV(1,8))
1 9 3.74698746E-09 # Aimag(UV(1,9))
1 10 -1.87357100E-08 # Aimag(UV(1,10))
2 1 -4.95210250E-01 # Aimag(UV(2,1))
2 2 7.31345625E-01 # Aimag(UV(2,2))
2 3 -4.68935374E-01 # Aimag(UV(2,3))
2 4 -3.98381422E-09 # Aimag(UV(2,4))
2 5 3.67571386E-09 # Aimag(UV(2,5))
2 6 1.07348174E-06 # Aimag(UV(2,6))
2 7 2.30029742E-10 # Aimag(UV(2,7))
2 8 2.80478608E-08 # Aimag(UV(2,8))
2 9 -4.16312794E-08 # Aimag(UV(2,9))
2 10 1.38899174E-08 # Aimag(UV(2,10))
3 1 -2.23203139E-01 # Aimag(UV(3,1))
3 2 -6.28751675E-01 # Aimag(UV(3,2))
3 3 -7.44883675E-01 # Aimag(UV(3,3))
3 4 -1.46064581E-07 # Aimag(UV(3,4))
3 5 1.37031031E-07 # Aimag(UV(3,5))
3 6 -2.27433678E-06 # Aimag(UV(3,6))

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3 7 9.40900677E-09 # Aimag(UV(3,7))
3 8 -1.36364152E-08 # Aimag(UV(3,8))
3 9 2.31639293E-08 # Aimag(UV(3,9))
3 10 -1.43812530E-08 # Aimag(UV(3,10))
4 1 0.00000000E+00 # Aimag(UV(4,1))
4 2 0.00000000E+00 # Aimag(UV(4,2))
4 3 0.00000000E+00 # Aimag(UV(4,3))
4 4 0.00000000E+00 # Aimag(UV(4,4))
4 5 0.00000000E+00 # Aimag(UV(4,5))
4 6 0.00000000E+00 # Aimag(UV(4,6))
4 7 0.00000000E+00 # Aimag(UV(4,7))
4 8 0.00000000E+00 # Aimag(UV(4,8))
4 9 0.00000000E+00 # Aimag(UV(4,9))
4 10 0.00000000E+00 # Aimag(UV(4,10))
5 1 -9.17842721E-07 # Aimag(UV(5,1))
5 2 -1.83559633E-06 # Aimag(UV(5,2))
5 3 -2.91599023E-07 # Aimag(UV(5,3))
5 4 -2.75420537E-02 # Aimag(UV(5,4))
5 5 2.76795406E-02 # Aimag(UV(5,5))
5 6 6.99415763E-01 # Aimag(UV(5,6))
5 7 7.13567931E-01 # Aimag(UV(5,7))
5 8 6.26206959E-03 # Aimag(UV(5,8))
5 9 6.15382785E-03 # Aimag(UV(5,9))
5 10 6.04921705E-03 # Aimag(UV(5,10))
6 1 0.00000000E+00 # Aimag(UV(6,1))
6 2 0.00000000E+00 # Aimag(UV(6,2))
6 3 0.00000000E+00 # Aimag(UV(6,3))
6 4 0.00000000E+00 # Aimag(UV(6,4))
6 5 0.00000000E+00 # Aimag(UV(6,5))
6 6 0.00000000E+00 # Aimag(UV(6,6))
6 7 0.00000000E+00 # Aimag(UV(6,7))
6 8 0.00000000E+00 # Aimag(UV(6,8))
6 9 0.00000000E+00 # Aimag(UV(6,9))
6 10 0.00000000E+00 # Aimag(UV(6,10))
7 1 0.00000000E+00 # Aimag(UV(7,1))
7 2 0.00000000E+00 # Aimag(UV(7,2))
7 3 0.00000000E+00 # Aimag(UV(7,3))
7 4 0.00000000E+00 # Aimag(UV(7,4))
7 5 0.00000000E+00 # Aimag(UV(7,5))
7 6 0.00000000E+00 # Aimag(UV(7,6))
7 7 0.00000000E+00 # Aimag(UV(7,7))
7 8 0.00000000E+00 # Aimag(UV(7,8))
7 9 0.00000000E+00 # Aimag(UV(7,9))
7 10 0.00000000E+00 # Aimag(UV(7,10))
8 1 0.00000000E+00 # Aimag(UV(8,1))
8 2 0.00000000E+00 # Aimag(UV(8,2))
8 3 0.00000000E+00 # Aimag(UV(8,3))
8 4 0.00000000E+00 # Aimag(UV(8,4))
8 5 0.00000000E+00 # Aimag(UV(8,5))
8 6 0.00000000E+00 # Aimag(UV(8,6))
8 7 0.00000000E+00 # Aimag(UV(8,7))
8 8 0.00000000E+00 # Aimag(UV(8,8))
8 9 0.00000000E+00 # Aimag(UV(8,9))
8 10 0.00000000E+00 # Aimag(UV(8,10))
9 1 0.00000000E+00 # Aimag(UV(9,1))
9 2 0.00000000E+00 # Aimag(UV(9,2))
9 3 0.00000000E+00 # Aimag(UV(9,3))
9 4 0.00000000E+00 # Aimag(UV(9,4))
9 5 0.00000000E+00 # Aimag(UV(9,5))
9 6 0.00000000E+00 # Aimag(UV(9,6))
9 7 0.00000000E+00 # Aimag(UV(9,7))
9 8 0.00000000E+00 # Aimag(UV(9,8))
9 9 0.00000000E+00 # Aimag(UV(9,9))
9 10 0.00000000E+00 # Aimag(UV(9,10))
10 1 0.00000000E+00 # Aimag(UV(10,1))
10 2 0.00000000E+00 # Aimag(UV(10,2))
10 3 0.00000000E+00 # Aimag(UV(10,3))
10 4 0.00000000E+00 # Aimag(UV(10,4))
10 5 0.00000000E+00 # Aimag(UV(10,5))
10 6 0.00000000E+00 # Aimag(UV(10,6))
10 7 0.00000000E+00 # Aimag(UV(10,7))
10 8 0.00000000E+00 # Aimag(UV(10,8))
10 9 0.00000000E+00 # Aimag(UV(10,9))

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10 10      0.00000000E+00 # Aimag(UV(10,10))
Block UERMIX # ( )
 1 1      1.00000000E+00 # Real(ZER(1,1),dp)
 1 2      3.01610973E-11 # Real(ZER(1,2),dp)
 1 3      8.25871422E-09 # Real(ZER(1,3),dp)
 1 4     -4.56079679E-08 # Real(ZER(1,4),dp)
 1 5      1.32505768E-06 # Real(ZER(1,5),dp)
 2 1      3.36880689E-11 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -2.04476969E-08 # Real(ZER(2,3),dp)
 2 4      1.17705021E-07 # Real(ZER(2,4),dp)
 2 5     -2.65742568E-06 # Real(ZER(2,5),dp)
 3 1     -8.25933495E-09 # Real(ZER(3,1),dp)
 3 2     -2.04489460E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.46517587E-07 # Real(ZER(3,4),dp)
 3 5      4.63415627E-07 # Real(ZER(3,5),dp)
 4 1      1.32542272E-06 # Real(ZER(4,1),dp)
 4 2      2.65840038E-06 # Real(ZER(4,2),dp)
 4 3      4.64750581E-07 # Real(ZER(4,3),dp)
 4 4      9.24597489E-03 # Real(ZER(4,4),dp)
 4 5     -9.99957255E-01 # Real(ZER(4,5),dp)
 5 1      3.33545672E-08 # Real(ZER(5,1),dp)
 5 2      9.31294952E-08 # Real(ZER(5,2),dp)
 5 3      1.42226597E-07 # Real(ZER(5,3),dp)
 5 4      9.99957255E-01 # Real(ZER(5,4),dp)
 5 5      9.24597489E-03 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      1.12468815E-12 # Real(ZEL(1,2),dp)
 1 3      8.46491003E-14 # Real(ZEL(1,3),dp)
 1 4     -2.31533981E-12 # Real(ZEL(1,4),dp)
 1 5      3.63004589E-11 # Real(ZEL(1,5),dp)
 2 1      1.12468944E-12 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -4.63484261E-11 # Real(ZEL(2,3),dp)
 2 4      1.26301334E-09 # Real(ZEL(2,4),dp)
 2 5     -1.98051083E-08 # Real(ZEL(2,5),dp)
 3 1     -8.46643789E-14 # Real(ZEL(3,1),dp)
 3 2     -4.63567465E-11 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -2.67360764E-08 # Real(ZEL(3,4),dp)
 3 5      4.19117708E-07 # Real(ZEL(3,5),dp)
 4 1      3.63742209E-11 # Real(ZEL(4,1),dp)
 4 2      1.98453386E-08 # Real(ZEL(4,2),dp)
 4 3      4.19969583E-07 # Real(ZEL(4,3),dp)
 4 4      6.40005883E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97949861E-01 # Real(ZEL(4,5),dp)
 5 1     -1.26576850E-14 # Real(ZEL(5,1),dp)
 5 2     -7.11459812E-12 # Real(ZEL(5,2),dp)
 5 3     -1.42516148E-10 # Real(ZEL(5,3),dp)
 5 4      9.97949861E-01 # Real(ZEL(5,4),dp)
 5 5      6.40005883E-02 # Real(ZEL(5,5),dp)
Block UDLMIX # ( )
 1 1      1.00000000E+00 # Real(ZDL(1,1),dp)
 1 2      0.00000000E+00 # Real(ZDL(1,2),dp)
 1 3      0.00000000E+00 # Real(ZDL(1,3),dp)
 2 1      0.00000000E+00 # Real(ZDL(2,1),dp)
 2 2      1.00000000E+00 # Real(ZDL(2,2),dp)
 2 3      0.00000000E+00 # Real(ZDL(2,3),dp)
 3 1      0.00000000E+00 # Real(ZDL(3,1),dp)
 3 2      0.00000000E+00 # Real(ZDL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZDL(3,3),dp)
Block UDRMIX # ( )
 1 1      1.00000000E+00 # Real(ZDR(1,1),dp)
 1 2      0.00000000E+00 # Real(ZDR(1,2),dp)
 1 3      0.00000000E+00 # Real(ZDR(1,3),dp)
 2 1      0.00000000E+00 # Real(ZDR(2,1),dp)
 2 2      1.00000000E+00 # Real(ZDR(2,2),dp)
 2 3      0.00000000E+00 # Real(ZDR(2,3),dp)
 3 1      0.00000000E+00 # Real(ZDR(3,1),dp)
 3 2      0.00000000E+00 # Real(ZDR(3,2),dp)
 3 3      1.00000000E+00 # Real(ZDR(3,3),dp)

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Block UULMIX # ( )
 1 1 9.74272160E-01 # Real(ZUL(1,1),dp)
 1 2 2.25348678E-01 # Real(ZUL(1,2),dp)
 1 3 3.42499367E-03 # Real(ZUL(1,3),dp)
 2 1 -2.25296231E-01 # Real(ZUL(2,1),dp)
 2 2 9.73419462E-01 # Real(ZUL(2,2),dp)
 2 3 4.11844653E-02 # Real(ZUL(2,3),dp)
 3 1 5.94690932E-03 # Real(ZUL(3,1),dp)
 3 2 -4.08965161E-02 # Real(ZUL(3,2),dp)
 3 3 9.99145690E-01 # Real(ZUL(3,3),dp)
Block UURMIX # ( )
 1 1 1.00000000E+00 # Real(ZUR(1,1),dp)
 1 2 2.71050543E-20 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 0.00000000E+00 # Real(ZUR(2,1),dp)
 2 2 1.00000000E+00 # Real(ZUR(2,2),dp)
 2 3 0.00000000E+00 # Real(ZUR(2,3),dp)
 3 1 0.00000000E+00 # Real(ZUR(3,1),dp)
 3 2 0.00000000E+00 # Real(ZUR(3,2),dp)
 3 3 1.00000000E+00 # Real(ZUR(3,3),dp)
DECAY 25 3.18660448E-03 # hh_1
# BR NDA ID1 ID2
2.81959851E-03 2 22 22 # BR(hh_1 -> VP VP )
1.08781034E-01 2 21 21 # BR(hh_1 -> VG VG )
2.37793571E-02 2 23 23 # BR(hh_1 -> VZ VZ )
2.26590048E-01 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
1.19268420E-02 2 36 36 # BR(hh_1 -> Ah_2 Ah_2 )
3.21026813E-05 2 36 1000017 # BR(hh_1 -> Ah_2 Ah_3 )
2.55948818E-05 2 36 1000018 # BR(hh_1 -> Ah_2 Ah_4 )
2.13028536E-03 2 1000017 1000017 # BR(hh_1 -> Ah_3 Ah_3 )
1.94064759E-13 2 1000017 1000018 # BR(hh_1 -> Ah_3 Ah_4 )
2.81792620E-03 2 1000018 1000018 # BR(hh_1 -> Ah_4 Ah_4 )
6.62500577E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
1.86298765E-27 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
7.53649118E-24 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
1.86298765E-27 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
2.95952386E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
3.43564923E-23 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
7.53649118E-24 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
3.43564923E-23 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
8.54250412E-02 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
1.76453327E-26 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
5.93793939E-28 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
5.38411659E-25 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
4.01569989E-25 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
4.55625212E-25 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
2.15782274E-22 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
5.32615620E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
1.91576924E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
5.12576079E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
9.51892880E-08 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
2.26079267E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 9.44126779E-02 # hh_2
# BR NDA ID1 ID2
1.50668573E-15 2 22 22 # BR(hh_2 -> VP VP )
1.53482668E-12 2 21 21 # BR(hh_2 -> VG VG )
2.00844894E-14 2 36 36 # BR(hh_2 -> Ah_2 Ah_2 )
1.06293760E-14 2 36 1000017 # BR(hh_2 -> Ah_2 Ah_3 )
1.55528264E-13 2 36 1000018 # BR(hh_2 -> Ah_2 Ah_4 )
1.58714651E-16 2 1000017 1000017 # BR(hh_2 -> Ah_3 Ah_3 )
2.65418490E-14 2 1000017 1000018 # BR(hh_2 -> Ah_3 Ah_4 )
1.69813383E-13 2 1000018 1000018 # BR(hh_2 -> Ah_4 Ah_4 )
8.91186084E-12 2 36 23 # BR(hh_2 -> Ah_2 VZ )
1.51240336E-12 2 1000017 23 # BR(hh_2 -> Ah_3 VZ )
2.14082934E-11 2 1000018 23 # BR(hh_2 -> Ah_4 VZ )
5.68658408E-21 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
1.06644950E-12 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
4.42569574E-23 2 -11 -1000024 # BR(hh_2 -> Cha_1^* Cha_4 )
2.54032133E-16 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
4.34340360E-12 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
1.72263877E-22 2 -13 -1000024 # BR(hh_2 -> Cha_2^* Cha_4 )
1.06644950E-12 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
4.34340360E-12 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )

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8.53121164E-13	2	-15	15	# BR(hh_2 -> Cha_3^* Cha_3)
4.73470255E-01	2	-15	-1000024	# BR(hh_2 -> Cha_3^* Cha_4)
4.42569574E-23	2	1000024	11	# BR(hh_2 -> Cha_4^* Cha_1)
1.72263877E-22	2	1000024	13	# BR(hh_2 -> Cha_4^* Cha_2)
4.73470255E-01	2	1000024	15	# BR(hh_2 -> Cha_4^* Cha_3)
1.44335677E-13	2	1000024	-1000024	# BR(hh_2 -> Cha_4^* Cha_4)
3.12332153E-19	2	12	12	# BR(hh_2 -> Chi_1 Chi_1)
1.19353219E-16	2	12	14	# BR(hh_2 -> Chi_1 Chi_2)
1.52844505E-13	2	12	16	# BR(hh_2 -> Chi_1 Chi_3)
7.95206058E-03	2	12	1000022	# BR(hh_2 -> Chi_1 Chi_4)
3.99947954E-03	2	12	1000023	# BR(hh_2 -> Chi_1 Chi_5)
2.16679240E-16	2	14	14	# BR(hh_2 -> Chi_2 Chi_2)
1.61769301E-13	2	14	16	# BR(hh_2 -> Chi_2 Chi_3)
7.76327321E-03	2	14	1000022	# BR(hh_2 -> Chi_2 Chi_4)
3.90452915E-03	2	14	1000023	# BR(hh_2 -> Chi_2 Chi_5)
7.50614365E-13	2	16	16	# BR(hh_2 -> Chi_3 Chi_3)
1.95882570E-02	2	16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
9.85189087E-03	2	16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
1.52551136E-13	2	1000022	1000022	# BR(hh_2 -> Chi_4 Chi_4)
3.15299397E-13	2	1000022	1000023	# BR(hh_2 -> Chi_4 Chi_5)
2.30262939E-14	2	1000023	1000023	# BR(hh_2 -> Chi_5 Chi_5)
4.57171451E-19	2	-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
1.64440388E-16	2	-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
4.41354242E-13	2	-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
7.15192611E-20	2	-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
1.69897155E-14	2	-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
6.78267505E-11	2	25	25	# BR(hh_2 -> hh_1 hh_1)
3.60201071E-11	2	-24	24	# BR(hh_2 -> Vwm Vwm^*)
1.62476091E-11	2	23	23	# BR(hh_2 -> VZ VZ)

DECAY 1000012 3.43005000E-02 # hh_3

#	BR	NDA	ID1	ID2	
7.95532424E-15	2		22	22	# BR(hh_3 -> VP VP)
5.60065991E-12	2		21	21	# BR(hh_3 -> VG VG)
6.56663445E-13	2		36	36	# BR(hh_3 -> Ah_2 Ah_2)
1.50419792E-12	2		36	1000017	# BR(hh_3 -> Ah_2 Ah_3)
1.10826686E-12	2		36	1000018	# BR(hh_3 -> Ah_2 Ah_4)
7.03745654E-22	2		36	1000019	# BR(hh_3 -> Ah_2 Ah_5)
9.06953840E-13	2	1000017		1000017	# BR(hh_3 -> Ah_3 Ah_3)
1.29217383E-12	2	1000017		1000018	# BR(hh_3 -> Ah_3 Ah_4)
1.13594958E-21	2	1000017		1000019	# BR(hh_3 -> Ah_3 Ah_5)
4.81461945E-13	2	1000018		1000018	# BR(hh_3 -> Ah_4 Ah_4)
1.81555078E-21	2	1000018		1000019	# BR(hh_3 -> Ah_4 Ah_5)
4.91091151E-13	2	1000019		1000019	# BR(hh_3 -> Ah_5 Ah_5)
2.73516248E-10	2		36	23	# BR(hh_3 -> Ah_2 VZ)
3.23227433E-10	2	1000017		23	# BR(hh_3 -> Ah_3 VZ)
2.36445031E-10	2	1000018		23	# BR(hh_3 -> Ah_4 VZ)
2.65847973E-22	2	1000019		23	# BR(hh_3 -> Ah_5 VZ)
1.17663178E-20	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
2.03784455E-14	2		-11	13	# BR(hh_3 -> Cha_1^* Cha_2)
1.88606531E-22	2		-11	-1000024	# BR(hh_3 -> Cha_1^* Cha_4)
2.03784455E-14	2		-13	11	# BR(hh_3 -> Cha_2^* Cha_1)
1.99494838E-13	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
6.19345794E-14	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
3.06049959E-01	2		-13	-1000024	# BR(hh_3 -> Cha_2^* Cha_4)
6.19345794E-14	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
1.51899158E-13	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
2.10241514E-21	2		-15	-1000024	# BR(hh_3 -> Cha_3^* Cha_4)
1.88606531E-22	2	1000024		11	# BR(hh_3 -> Cha_4^* Cha_1)
3.06049959E-01	2	1000024		13	# BR(hh_3 -> Cha_4^* Cha_2)
2.10241514E-21	2	1000024		15	# BR(hh_3 -> Cha_4^* Cha_3)
5.35301044E-12	2	1000024		-1000024	# BR(hh_3 -> Cha_4^* Cha_4)
5.34494105E-19	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
2.31398260E-16	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
2.59478725E-13	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
1.78248665E-02	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
9.25246264E-03	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
2.91029972E-15	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
1.90618729E-12	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
1.36579546E-01	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
7.08951817E-02	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
2.95324405E-12	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
1.00948214E-01	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
5.23998079E-02	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)

5.02402433E-12	2	1000022	1000022	# BR(hh_3 -> Chi_4 Chi_4)	
6.27019711E-13	2	1000022	1000023	# BR(hh_3 -> Chi_4 Chi_5)	
1.43149578E-13	2	1000023	1000023	# BR(hh_3 -> Chi_5 Chi_5)	
9.45950101E-19	2	-1	1	# BR(hh_3 -> Fd_1^* Fd_1)	
3.40249580E-16	2	-3	3	# BR(hh_3 -> Fd_2^* Fd_2)	
9.13535865E-13	2	-5	5	# BR(hh_3 -> Fd_3^* Fd_3)	
1.43819907E-19	2	-2	2	# BR(hh_3 -> Fu_1^* Fu_1)	
3.41657560E-14	2	-4	4	# BR(hh_3 -> Fu_2^* Fu_2)	
1.78398406E-09	2	-6	6	# BR(hh_3 -> Fu_3^* Fu_3)	
5.31391988E-11	2	25	25	# BR(hh_3 -> hh_1 hh_1)	
1.75225903E-21	2	25	35	# BR(hh_3 -> hh_1 hh_2)	
4.91091151E-13	2	35	35	# BR(hh_3 -> hh_2 hh_2)	
9.45619639E-23	2	37	24	# BR(hh_3 -> Hpm_2 VWm^*)	
9.45619639E-23	2	-37	-24	# BR(hh_3 -> Hpm_2^* VWm)	
3.86308067E-11	2	-24	24	# BR(hh_3 -> VWm VWm^*)	
1.88627104E-11	2	23	23	# BR(hh_3 -> VZ VZ)	
DECAY 1000014	6.33537821E+00	#	hh_4		
#	BR	NDA	ID1	ID2	
3.18681063E-08	2	22	22	# BR(hh_4 -> VP VP)	
5.93938158E-07	2	21	21	# BR(hh_4 -> VG VG)	
1.64998174E-01	2	36	36	# BR(hh_4 -> Ah_2 Ah_2)	
4.10369127E-01	2	36	1000017	# BR(hh_4 -> Ah_2 Ah_3)	
3.28545552E-02	2	36	1000018	# BR(hh_4 -> Ah_2 Ah_4)	
3.11205830E-16	2	36	1000019	# BR(hh_4 -> Ah_2 Ah_5)	
4.64094250E-17	2	36	2000018	# BR(hh_4 -> Ah_2 Ah_6)	
3.28030236E-01	2	1000017	1000017	# BR(hh_4 -> Ah_3 Ah_3)	
4.08492540E-02	2	1000017	1000018	# BR(hh_4 -> Ah_3 Ah_4)	
1.17622330E-18	2	1000017	1000019	# BR(hh_4 -> Ah_3 Ah_5)	
1.14156258E-16	2	1000017	2000018	# BR(hh_4 -> Ah_3 Ah_6)	
3.90065827E-03	2	1000018	1000018	# BR(hh_4 -> Ah_4 Ah_4)	
7.55088012E-17	2	1000018	1000019	# BR(hh_4 -> Ah_4 Ah_5)	
1.12241227E-16	2	1000018	2000018	# BR(hh_4 -> Ah_4 Ah_6)	
3.96618804E-07	2	1000019	1000019	# BR(hh_4 -> Ah_5 Ah_5)	
1.16722312E-04	2	36	23	# BR(hh_4 -> Ah_2 VZ)	
4.73023982E-07	2	1000017	23	# BR(hh_4 -> Ah_3 VZ)	
4.59438642E-07	2	1000018	23	# BR(hh_4 -> Ah_4 VZ)	
1.21735098E-16	2	1000019	23	# BR(hh_4 -> Ah_5 VZ)	
4.09699883E-16	2	2000018	23	# BR(hh_4 -> Ah_6 VZ)	
5.83965813E-11	2	-11	11	# BR(hh_4 -> Cha_1^* Cha_1)	
8.60477593E-28	2	-11	13	# BR(hh_4 -> Cha_1^* Cha_2)	
4.75914420E-25	2	-11	15	# BR(hh_4 -> Cha_1^* Cha_3)	
3.16942324E-14	2	-11	-1000024	# BR(hh_4 -> Cha_1^* Cha_4)	
8.60477593E-28	2	-13	11	# BR(hh_4 -> Cha_2^* Cha_1)	
2.60870440E-06	2	-13	13	# BR(hh_4 -> Cha_2^* Cha_2)	
2.60155500E-24	2	-13	15	# BR(hh_4 -> Cha_2^* Cha_3)	
1.99998658E-14	2	-13	-1000024	# BR(hh_4 -> Cha_2^* Cha_4)	
4.75914420E-25	2	-15	11	# BR(hh_4 -> Cha_3^* Cha_1)	
2.60155500E-24	2	-15	13	# BR(hh_4 -> Cha_3^* Cha_2)	
7.53898981E-04	2	-15	15	# BR(hh_4 -> Cha_3^* Cha_3)	
6.18324191E-16	2	-15	-1000024	# BR(hh_4 -> Cha_3^* Cha_4)	
3.16942324E-14	2	1000024	11	# BR(hh_4 -> Cha_4^* Cha_1)	
1.99998658E-14	2	1000024	13	# BR(hh_4 -> Cha_4^* Cha_2)	
6.18324191E-16	2	1000024	15	# BR(hh_4 -> Cha_4^* Cha_3)	
6.43839525E-03	2	1000024	-1000024	# BR(hh_4 -> Cha_4^* Cha_4)	
2.94001681E-30	2	12	14	# BR(hh_4 -> Chi_1 Chi_2)	
8.97316542E-27	2	12	16	# BR(hh_4 -> Chi_1 Chi_3)	
1.44929302E-14	2	12	1000022	# BR(hh_4 -> Chi_1 Chi_4)	
1.32533904E-14	2	12	1000023	# BR(hh_4 -> Chi_1 Chi_5)	
3.33352437E-16	2	12	1000025	# BR(hh_4 -> Chi_1 Chi_6)	
2.11050724E-25	2	12	1000039	# BR(hh_4 -> Chi_1 Chi_7)	
4.27064980E-28	2	14	16	# BR(hh_4 -> Chi_2 Chi_3)	
3.17953377E-14	2	14	1000022	# BR(hh_4 -> Chi_2 Chi_4)	
3.21803010E-14	2	14	1000023	# BR(hh_4 -> Chi_2 Chi_5)	
4.58764035E-18	2	14	1000025	# BR(hh_4 -> Chi_2 Chi_6)	
7.43850929E-25	2	14	1000039	# BR(hh_4 -> Chi_2 Chi_7)	
7.18162429E-27	2	16	16	# BR(hh_4 -> Chi_3 Chi_3)	
3.11030484E-15	2	16	1000022	# BR(hh_4 -> Chi_3 Chi_4)	
7.81549156E-15	2	16	1000023	# BR(hh_4 -> Chi_3 Chi_5)	
1.65839365E-16	2	16	1000025	# BR(hh_4 -> Chi_3 Chi_6)	
1.80966189E-25	2	16	1000039	# BR(hh_4 -> Chi_3 Chi_7)	
3.33704490E-03	2	1000022	1000022	# BR(hh_4 -> Chi_4 Chi_4)	
1.12369716E-05	2	1000022	1000023	# BR(hh_4 -> Chi_4 Chi_5)	
3.39288634E-03	2	1000023	1000023	# BR(hh_4 -> Chi_5 Chi_5)	

4.69477794E-09	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.68866866E-06	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
4.53413324E-03	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
2.21475517E-14	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
5.26137192E-09	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
3.52150286E-04	2	-6	6	# BR(hh_4 -> Fu_3^* Fu_3)
8.12077372E-06	2	25	25	# BR(hh_4 -> hh_1 hh_1)
1.12901223E-16	2	25	35	# BR(hh_4 -> hh_1 hh_2)
4.92751934E-16	2	25	1000012	# BR(hh_4 -> hh_1 hh_3)
3.96618804E-07	2	35	35	# BR(hh_4 -> hh_2 hh_2)
1.59257176E-07	2	-37	37	# BR(hh_4 -> Hpm_2^* Hpm_2)
2.65984433E-16	2	37	24	# BR(hh_4 -> Hpm_2 VWm^*)
2.65984433E-16	2	-37	-24	# BR(hh_4 -> Hpm_2^* VWm)
6.37447512E-16	2	1000011	24	# BR(hh_4 -> Hpm_3 VWm^*)
6.37447512E-16	2	-1000011	-24	# BR(hh_4 -> Hpm_3^* VWm)
3.11515335E-05	2	-24	24	# BR(hh_4 -> VWm VWm^*)
1.54369781E-05	2	23	23	# BR(hh_4 -> VZ VZ)
DECAY	1000016	6.60918323E+00	# hh_5	
#	BR	NDA	ID1	ID2
1.50606781E-08	2	22	22	# BR(hh_5 -> VP VP)
1.82511363E-06	2	21	21	# BR(hh_5 -> VG VG)
1.01340527E-01	2	36	36	# BR(hh_5 -> Ah_2 Ah_2)
2.91106791E-01	2	36	1000017	# BR(hh_5 -> Ah_2 Ah_3)
1.46559228E-01	2	36	1000018	# BR(hh_5 -> Ah_2 Ah_4)
3.88533128E-16	2	36	1000019	# BR(hh_5 -> Ah_2 Ah_5)
1.31733658E-13	2	36	2000018	# BR(hh_5 -> Ah_2 Ah_6)
1.26360499E-01	2	1000017	1000017	# BR(hh_5 -> Ah_3 Ah_3)
2.10539047E-01	2	1000017	1000018	# BR(hh_5 -> Ah_3 Ah_4)
3.94269168E-17	2	1000017	1000019	# BR(hh_5 -> Ah_3 Ah_5)
1.79477580E-13	2	1000017	2000018	# BR(hh_5 -> Ah_3 Ah_6)
9.82467831E-02	2	1000018	1000018	# BR(hh_5 -> Ah_4 Ah_4)
9.31143956E-16	2	1000018	1000019	# BR(hh_5 -> Ah_4 Ah_5)
1.33677972E-13	2	1000018	2000018	# BR(hh_5 -> Ah_4 Ah_6)
1.12835854E-06	2	1000019	1000019	# BR(hh_5 -> Ah_5 Ah_5)
3.32806958E-04	2	36	23	# BR(hh_5 -> Ah_2 VZ)
1.34880240E-06	2	1000017	23	# BR(hh_5 -> Ah_3 VZ)
1.31009239E-06	2	1000018	23	# BR(hh_5 -> Ah_4 VZ)
1.86238879E-16	2	1000019	23	# BR(hh_5 -> Ah_5 VZ)
2.76068116E-13	2	2000018	23	# BR(hh_5 -> Ah_6 VZ)
1.59710418E-10	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
3.45881547E-27	2	-11	13	# BR(hh_5 -> Cha_1^* Cha_2)
1.70725773E-24	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
6.59758635E-15	2	-11	-1000024	# BR(hh_5 -> Cha_1^* Cha_4)
3.45881547E-27	2	-13	11	# BR(hh_5 -> Cha_2^* Cha_1)
7.13461753E-06	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
5.89078301E-24	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
9.76177802E-14	2	-13	-1000024	# BR(hh_5 -> Cha_2^* Cha_4)
1.70725773E-24	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
5.89078301E-24	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
2.06186085E-03	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
1.18756505E-16	2	-15	-1000024	# BR(hh_5 -> Cha_3^* Cha_4)
6.59758635E-15	2	1000024	11	# BR(hh_5 -> Cha_4^* Cha_1)
9.76177802E-14	2	1000024	13	# BR(hh_5 -> Cha_4^* Cha_2)
1.18756505E-16	2	1000024	15	# BR(hh_5 -> Cha_4^* Cha_3)
4.73320351E-03	2	1000024	-1000024	# BR(hh_5 -> Cha_4^* Cha_4)
1.95941659E-30	2	12	14	# BR(hh_5 -> Chi_1 Chi_2)
1.35060212E-27	2	12	16	# BR(hh_5 -> Chi_1 Chi_3)
4.95679775E-16	2	12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
3.91240136E-16	2	12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
1.12541473E-16	2	12	1000025	# BR(hh_5 -> Chi_1 Chi_6)
1.32802017E-22	2	12	1000039	# BR(hh_5 -> Chi_1 Chi_7)
9.51851825E-27	2	12	1000045	# BR(hh_5 -> Chi_1 Chi_8)
1.23550277E-29	2	14	14	# BR(hh_5 -> Chi_2 Chi_2)
1.85967485E-28	2	14	16	# BR(hh_5 -> Chi_2 Chi_3)
7.56020928E-14	2	14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
7.83066219E-14	2	14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
2.85298476E-18	2	14	1000025	# BR(hh_5 -> Chi_2 Chi_6)
9.22472491E-22	2	14	1000039	# BR(hh_5 -> Chi_2 Chi_7)
1.19063492E-24	2	14	1000045	# BR(hh_5 -> Chi_2 Chi_8)
5.58199202E-27	2	16	16	# BR(hh_5 -> Chi_3 Chi_3)
3.35389954E-14	2	16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
1.87364135E-14	2	16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
1.86918688E-16	2	16	1000025	# BR(hh_5 -> Chi_3 Chi_6)

1.33990036E-21	2		16	1000039	# BR(hh_5 -> Chi_3 Chi_7)
3.60441098E-25	2		16	1000045	# BR(hh_5 -> Chi_3 Chi_8)
2.52419682E-03	2	1000022		1000022	# BR(hh_5 -> Chi_4 Chi_4)
1.75624066E-05	2	1000022		1000023	# BR(hh_5 -> Chi_4 Chi_5)
2.63071068E-03	2	1000023		1000023	# BR(hh_5 -> Chi_5 Chi_5)
1.28398783E-08	2		-1	1	# BR(hh_5 -> Fd_1^* Fd_1)
4.61838642E-06	2		-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
1.24005455E-02	2		-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
6.89663513E-14	2		-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
1.63836472E-08	2		-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
1.10470029E-03	2		-6	6	# BR(hh_5 -> Fu_3^* Fu_3)
7.61166778E-07	2		25	25	# BR(hh_5 -> hh_1 hh_1)
9.16185961E-17	2		25	35	# BR(hh_5 -> hh_1 hh_2)
2.90284265E-13	2		25	1000012	# BR(hh_5 -> hh_1 hh_3)
1.12835854E-06	2		35	35	# BR(hh_5 -> hh_2 hh_2)
4.52199354E-07	2		-37	37	# BR(hh_5 -> Hpm_2^* Hpm_2)
5.16788075E-16	2		37	24	# BR(hh_5 -> Hpm_2 Vwm^*)
5.16788075E-16	2		-37	-24	# BR(hh_5 -> Hpm_2^* Vwm)
2.8048597E-13	2	1000011		24	# BR(hh_5 -> Hpm_3 Vwm^*)
2.8048597E-13	2	-1000011		-24	# BR(hh_5 -> Hpm_3^* Vwm)
1.45651368E-05	2		-24	24	# BR(hh_5 -> Vwm Vwm^*)
7.22132266E-06	2		23	23	# BR(hh_5 -> VZ VZ)
DECAY	2000012	6.15010080E+00	#	hh_6	
#	BR	NDA	ID1	ID2	
1.09212158E-08	2		22	22	# BR(hh_6 -> VP VP)
1.28555033E-05	2		21	21	# BR(hh_6 -> VG VG)
3.51850174E-02	2		36	36	# BR(hh_6 -> Ah_2 Ah_2)
1.43272764E-02	2		36	1000017	# BR(hh_6 -> Ah_2 Ah_3)
4.13797653E-01	2		36	1000018	# BR(hh_6 -> Ah_2 Ah_4)
9.21998780E-14	2		36	1000019	# BR(hh_6 -> Ah_2 Ah_5)
2.19580980E-14	2		36	2000018	# BR(hh_6 -> Ah_2 Ah_6)
2.03647558E-03	2	1000017		1000017	# BR(hh_6 -> Ah_3 Ah_3)
8.44991855E-02	2	1000017		1000018	# BR(hh_6 -> Ah_3 Ah_4)
2.66139739E-14	2	1000017		1000019	# BR(hh_6 -> Ah_3 Ah_5)
7.21687291E-15	2	1000017		2000018	# BR(hh_6 -> Ah_3 Ah_6)
3.44789792E-01	2	1000018		1000018	# BR(hh_6 -> Ah_4 Ah_4)
4.00922231E-13	2	1000018		1000019	# BR(hh_6 -> Ah_4 Ah_5)
4.05508173E-15	2	1000018		2000018	# BR(hh_6 -> Ah_4 Ah_6)
7.47438934E-06	2	1000019		1000019	# BR(hh_6 -> Ah_5 Ah_5)
2.73011365E-27	2	1000019		2000018	# BR(hh_6 -> Ah_5 Ah_6)
2.23182552E-03	2		36	23	# BR(hh_6 -> Ah_2 VZ)
9.04564455E-06	2	1000017		23	# BR(hh_6 -> Ah_3 VZ)
8.78619501E-06	2	1000018		23	# BR(hh_6 -> Ah_4 VZ)
5.51153121E-14	2	1000019		23	# BR(hh_6 -> Ah_5 VZ)
9.83067056E-15	2	2000018		23	# BR(hh_6 -> Ah_6 VZ)
1.03012782E-09	2		-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
1.92897678E-26	2		-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
1.06037590E-23	2		-11	15	# BR(hh_6 -> Cha_1^* Cha_3)
2.11303218E-15	2		-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
1.92897678E-26	2		-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
4.60180876E-05	2		-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
4.33408147E-23	2		-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
1.43185192E-14	2		-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
1.06037590E-23	2		-15	11	# BR(hh_6 -> Cha_3^* Cha_1)
4.33408147E-23	2		-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
1.32989563E-02	2		-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
5.82852900E-15	2		-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
2.11303218E-15	2	1000024		11	# BR(hh_6 -> Cha_4^* Cha_1)
1.43185192E-14	2	1000024		13	# BR(hh_6 -> Cha_4^* Cha_2)
5.82852900E-15	2	1000024		15	# BR(hh_6 -> Cha_4^* Cha_3)
6.29034219E-04	2	1000024		-1000024	# BR(hh_6 -> Cha_4^* Cha_4)
1.54786670E-29	2		12	14	# BR(hh_6 -> Chi_1 Chi_2)
1.50017447E-26	2		12	16	# BR(hh_6 -> Chi_1 Chi_3)
8.17009904E-15	2		12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
1.03440901E-14	2		12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
2.26157014E-15	2		12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
5.24115057E-20	2		12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
3.47863903E-24	2		12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
2.70823922E-29	2		14	14	# BR(hh_6 -> Chi_2 Chi_2)
9.86671910E-27	2		14	16	# BR(hh_6 -> Chi_2 Chi_3)
7.30224362E-15	2		14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
8.50290119E-15	2		14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
1.66408844E-15	2		14	1000025	# BR(hh_6 -> Chi_2 Chi_6)

2.04006741E-19	2		14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
6.99820599E-21	2		14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
6.85419802E-26	2		16	16	# BR(hh_6 -> Chi_3 Chi_3)
2.54744150E-19	2		16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
1.73158541E-14	2		16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
4.92760900E-15	2		16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
1.05973325E-19	2		16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
1.96389969E-23	2		16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
4.64547975E-04	2	1000022		1000022	# BR(hh_6 -> Chi_4 Chi_4)
5.57438134E-05	2	1000022		1000023	# BR(hh_6 -> Chi_4 Chi_5)
6.13351096E-04	2	1000023		1000023	# BR(hh_6 -> Chi_5 Chi_5)
8.28168639E-08	2		-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
2.97884658E-05	2		-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
7.99832918E-02	2		-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
4.91342085E-13	2		-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
1.16723210E-07	2		-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
7.92242405E-03	2		-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
3.54007079E-05	2		25	25	# BR(hh_6 -> hh_1 hh_1)
4.72136821E-14	2		25	35	# BR(hh_6 -> hh_1 hh_2)
9.19340145E-15	2		25	1000012	# BR(hh_6 -> hh_1 hh_3)
7.47438934E-06	2		35	35	# BR(hh_6 -> hh_2 hh_2)
1.78065339E-27	2		35	1000012	# BR(hh_6 -> hh_2 hh_3)
2.98626471E-06	2		-37	37	# BR(hh_6 -> Hpm_2^* Hpm_2)
6.59446038E-14	2		37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
6.59446038E-14	2		-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
5.29204857E-15	2	1000011		24	# BR(hh_6 -> Hpm_3 Vwm^*)
5.29204857E-15	2	-1000011		-24	# BR(hh_6 -> Hpm_3^* Vwm)
3.59896512E-06	2		-24	24	# BR(hh_6 -> Vwm Vwm^*)
1.78516272E-06	2		23	23	# BR(hh_6 -> VZ VZ)
DECAY 2000014		4.08994186E+00	# hh_7		
# BR	NDA	ID1	ID2		
5.75705356E-07	2	22	22	# BR(hh_7 -> VP VP)	
6.53739499E-05	2	21	21	# BR(hh_7 -> VG VG)	
7.50095609E-02	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)	
1.69112006E-02	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)	
8.87406513E-02	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)	
2.92239195E-13	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)	
7.52834650E-14	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)	
2.36465006E-02	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)	
9.93926040E-03	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)	
1.99116382E-14	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)	
1.66360661E-14	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6)	
2.37592877E-01	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)	
2.39564402E-13	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)	
8.44317998E-15	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)	
3.66989089E-05	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)	
1.97755749E-25	2	1000019	2000018	# BR(hh_7 -> Ah_5 Ah_6)	
1.11302503E-02	2	36	23	# BR(hh_7 -> Ah_2 VZ)	
4.51127404E-05	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)	
4.38192714E-05	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)	
7.52320639E-14	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)	
2.75433893E-14	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)	
5.00140654E-09	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)	
9.12416644E-26	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)	
4.97719021E-23	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)	
1.10833385E-14	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)	
9.12416644E-26	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)	
2.23423890E-04	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)	
2.02880671E-22	2	-13	15	# BR(hh_7 -> Cha_2^* Cha_3)	
4.07577323E-14	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)	
4.97719021E-23	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)	
2.02880671E-22	2	-15	13	# BR(hh_7 -> Cha_3^* Cha_2)	
6.45682217E-02	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)	
2.52613722E-14	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)	
1.10833385E-14	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)	
4.07577323E-14	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)	
2.52613722E-14	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)	
2.31698777E-02	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)	
4.94462936E-29	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)	
6.91092624E-26	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)	
1.82718990E-14	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)	
1.37035200E-14	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)	
1.21595065E-14	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)	

6.17743925E-19	2		12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
4.83470348E-21	2		12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
4.34318450E-20	2		12	1000055	# BR(hh_7 -> Chi_1 Chi_9)
1.16573059E-28	2		14	14	# BR(hh_7 -> Chi_2 Chi_2)
4.37436987E-26	2		14	16	# BR(hh_7 -> Chi_2 Chi_3)
6.99120613E-15	2		14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
5.56338014E-15	2		14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
8.77617258E-15	2		14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
2.51769007E-18	2		14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
1.10629510E-18	2		14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
2.41459182E-20	2		14	1000055	# BR(hh_7 -> Chi_2 Chi_9)
3.63723135E-25	2		16	16	# BR(hh_7 -> Chi_3 Chi_3)
7.70673513E-14	2		16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
1.64413385E-16	2		16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
3.23140588E-14	2		16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
1.19433740E-18	2		16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
1.54220953E-19	2		16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
8.26218265E-21	2		16	1000055	# BR(hh_7 -> Chi_3 Chi_9)
9.90180679E-03	2	1000022	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
1.44934129E-04	2	1000022	1000023	1000023	# BR(hh_7 -> Chi_4 Chi_5)
8.41190482E-03	2	1000023	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)
4.02086784E-07	2		-1	1	# BR(hh_7 -> Fd_1^* Fd_1)
1.44626933E-04	2		-3	3	# BR(hh_7 -> Fd_2^* Fd_2)
3.88329805E-01	2		-5	5	# BR(hh_7 -> Fd_3^* Fd_3)
2.51857387E-12	2		-2	2	# BR(hh_7 -> Fu_1^* Fu_1)
5.98312310E-07	2		-4	4	# BR(hh_7 -> Fu_2^* Fu_2)
4.07882496E-02	2		-6	6	# BR(hh_7 -> Fu_3^* Fu_3)
5.54094573E-04	2		25	25	# BR(hh_7 -> hh_1 hh_1)
1.02276885E-13	2		25	35	# BR(hh_7 -> hh_1 hh_2)
2.47263170E-14	2		25	1000012	# BR(hh_7 -> hh_1 hh_3)
3.66989089E-05	2		35	35	# BR(hh_7 -> hh_2 hh_2)
2.27316773E-25	2		35	1000012	# BR(hh_7 -> hh_2 hh_3)
1.46273009E-05	2		-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)
7.65578912E-26	2		-37	1000011	# BR(hh_7 -> Hpm_2^* Hpm_3)
7.65578912E-26	2	-1000011	37	37	# BR(hh_7 -> Hpm_3^* Hpm_2)
4.73360703E-14	2		37	24	# BR(hh_7 -> Hpm_2 Vwm^*)
4.73360703E-14	2		-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)
1.11565874E-14	2	1000011	24	24	# BR(hh_7 -> Hpm_3 Vwm^*)
1.11565874E-14	2	-1000011	-24	-24	# BR(hh_7 -> Hpm_3^* Vwm)
3.66829791E-04	2		-24	24	# BR(hh_7 -> Vwm Vwm^*)
1.82010887E-04	2		23	23	# BR(hh_7 -> VZ VZ)
DECAY	2000016	2.13874669E-01	# hh_8		
#	BR	NDA	ID1	ID2	
3.03536297E-16	2		22	22	# BR(hh_8 -> VP VP)
1.64798058E-13	2		21	21	# BR(hh_8 -> VG VG)
9.39319367E-13	2		36	36	# BR(hh_8 -> Ah_2 Ah_2)
2.50201617E-12	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
1.78567196E-13	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
9.23245767E-23	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
1.35897551E-23	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
1.02154100E-13	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
1.89845983E-12	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
2.64264571E-13	2	1000017	1000018	1000018	# BR(hh_8 -> Ah_3 Ah_4)
1.75020809E-22	2	1000017	1000019	1000019	# BR(hh_8 -> Ah_3 Ah_5)
1.31953827E-22	2	1000017	2000018	2000018	# BR(hh_8 -> Ah_3 Ah_6)
2.05476078E-14	2	1000017	2000019	2000019	# BR(hh_8 -> Ah_3 Ah_7)
1.88359133E-14	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
2.39826723E-23	2	1000018	1000019	1000019	# BR(hh_8 -> Ah_4 Ah_5)
3.45574288E-25	2	1000018	2000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
9.20801927E-16	2	1000018	2000019	2000019	# BR(hh_8 -> Ah_4 Ah_7)
6.59130474E-14	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
2.23580944E-11	2		36	23	# BR(hh_8 -> Ah_2 VZ)
3.33170163E-11	2	1000017		23	# BR(hh_8 -> Ah_3 VZ)
2.43439573E-12	2	1000018		23	# BR(hh_8 -> Ah_4 VZ)
4.95744391E-24	2	1000019		23	# BR(hh_8 -> Ah_5 VZ)
2.44152976E-24	2	2000018		23	# BR(hh_8 -> Ah_6 VZ)
4.33567912E-15	2	2000019		23	# BR(hh_8 -> Ah_7 VZ)
2.25628066E-19	2		-11	11	# BR(hh_8 -> Cha_1^* Cha_1)
3.71712634E-17	2		-11	13	# BR(hh_8 -> Cha_1^* Cha_2)
1.64159443E-14	2		-11	15	# BR(hh_8 -> Cha_1^* Cha_3)
8.62271510E-02	2		-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)
3.71712634E-17	2		-13	11	# BR(hh_8 -> Cha_2^* Cha_1)
8.04237177E-17	2		-13	13	# BR(hh_8 -> Cha_2^* Cha_2)

8.33157967E-23	2	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)
1.64159443E-14	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
2.32420850E-14	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
1.45288733E-22	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
8.62271510E-02	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
8.33157967E-23	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
1.45288733E-22	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
7.97794959E-14	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
1.48950088E-18	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
5.06072113E-16	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
7.26208000E-13	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
5.24572363E-02	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
2.73882537E-02	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
5.03530201E-01	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
1.59638623E-07	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
8.95070889E-08	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
5.55060483E-08	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
3.68212785E-16	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
2.58952153E-13	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
1.82485385E-02	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
9.52767694E-03	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
1.75165351E-01	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
5.55342170E-08	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
3.11372401E-08	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
1.93091425E-08	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
1.02699624E-13	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
3.70722915E-03	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
1.93556770E-03	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)
3.55852113E-02	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
1.12818936E-08	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
6.32559606E-09	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
3.92269313E-09	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
1.03923205E-13	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
1.96870211E-14	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
3.84061800E-13	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
1.56749416E-14	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
3.30874254E-16	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
6.44256015E-15	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
1.21655785E-13	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
1.95141168E-13	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
1.63396044E-15	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
1.44735257E-19	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
5.20599452E-17	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
1.39784278E-13	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
5.25263363E-21	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
1.24781597E-15	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
8.79040558E-11	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
7.16366844E-13	2	25	25	# BR(hh_8 -> hh_1 hh_1)
2.93213393E-23	2	25	35	# BR(hh_8 -> hh_1 hh_2)
8.03677043E-24	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
5.37357749E-12	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
9.22747598E-15	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
9.31171686E-15	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
6.59130474E-14	2	35	35	# BR(hh_8 -> hh_2 hh_2)
3.88311086E-14	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
1.78139871E-24	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
1.78139871E-24	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
2.81329328E-25	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
2.81329328E-25	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
2.30181505E-16	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
2.30181505E-16	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
2.62921571E-28	2	1000013	24	# BR(hh_8 -> Hpm_5 Vwm^*)
2.62921571E-28	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* Vwm)
5.82120098E-31	2	2000013	24	# BR(hh_8 -> Hpm_6 Vwm^*)
5.82120098E-31	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* Vwm)
3.71530522E-12	2	1000015	24	# BR(hh_8 -> Hpm_7 Vwm^*)
3.71530522E-12	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* Vwm)
6.72351010E-13	2	-24	24	# BR(hh_8 -> Vwm Vwm^*)
3.34384369E-13	2	23	23	# BR(hh_8 -> VZ VZ)
DECAY	36	1.99569554E-05	# Ah_2	
# BR	NDA	ID1	ID2	
1.40669769E-05	2	22	22	# BR(Ah_2 -> VP VP)
5.48072569E-06	2	21	21	# BR(Ah_2 -> VG VG)

1.11724104E-08	2	-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
8.40776735E-25	2	-11	13	# BR(Ah_2 -> Cha_1^* Cha_2)
3.23068587E-22	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
8.40776735E-25	2	-13	11	# BR(Ah_2 -> Cha_2^* Cha_1)
4.99088062E-04	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
1.39700070E-21	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
3.23068587E-22	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
1.39700070E-21	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
1.43563063E-01	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
2.80515966E-27	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1)
2.33498956E-29	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2)
1.08583895E-27	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3)
7.27065927E-26	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2)
7.43126132E-27	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3)
1.50018101E-22	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3)
8.98203039E-07	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
3.23075150E-04	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
8.55592942E-01	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
5.78983549E-12	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
1.37420312E-06	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)

DECAY 1000017 8.99192113E-08 # Ah_3

#	BR	NDA	ID1	ID2
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1.12348600E-05	2	22	22	# BR(Ah_3 -> VP VP)
2.12717789E-06	2	21	21	# BR(Ah_3 -> VG VG)
1.11436575E-08	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
2.50435595E-22	2	-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)
4.42791072E-20	2	-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
2.50435595E-22	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
4.97805154E-04	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
1.08818241E-20	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
4.42791072E-20	2	-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
1.08818241E-20	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
1.43318826E-01	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
5.70061815E-26	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
1.17131843E-24	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
6.85131607E-22	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
2.25999524E-23	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
7.32766378E-21	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
1.82984846E-20	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)
8.95891456E-07	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
3.22243786E-04	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
8.55845418E-01	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
6.05822629E-12	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
1.43817914E-06	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)

DECAY 1000018 8.84635980E-08 # Ah_4

#	BR	NDA	ID1	ID2
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1.11530962E-05	2	22	22	# BR(Ah_4 -> VP VP)
8.25794416E-07	2	21	21	# BR(Ah_4 -> VG VG)
1.11405717E-08	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
2.20844780E-23	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
6.41982129E-20	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
2.20844780E-23	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
4.97667473E-04	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
4.13038796E-19	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
6.41982129E-20	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
4.13038796E-19	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
1.43292836E-01	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
2.03810159E-25	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1)
5.87524952E-24	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2)
1.31548346E-20	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3)
6.23474101E-23	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2)
2.11613163E-20	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3)
4.95348968E-21	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3)
8.95643375E-07	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
3.22154563E-04	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
8.55872957E-01	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
6.31549463E-12	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
1.49928354E-06	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)

DECAY 1000019 9.44126779E-02 # Ah_5

#	BR	NDA	ID1	ID2
---	----	-----	-----	-----

7.09070051E-15	2	22	22	# BR(Ah_5 -> VP VP)
2.16676453E-13	2	21	21	# BR(Ah_5 -> VG VG)
1.10311216E-11	2	25	36	# BR(Ah_5 -> hh_1 Ah_2)

1.87338388E-12	2	25	1000017	# BR(Ah_5 -> hh_1 Ah_3)
2.65285590E-11	2	25	1000018	# BR(Ah_5 -> hh_1 Ah_4)
3.13707638E-21	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
1.06644950E-12	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
7.17857847E-23	2	-11	-1000024	# BR(Ah_5 -> Cha_1^* Cha_4)
1.40140118E-16	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
4.34340360E-12	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
2.98867502E-22	2	-13	-1000024	# BR(Ah_5 -> Cha_2^* Cha_4)
1.06644950E-12	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
4.34340360E-12	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
3.14091177E-13	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)
4.73470255E-01	2	-15	-1000024	# BR(Ah_5 -> Cha_3^* Cha_4)
7.17857847E-23	2	1000024	11	# BR(Ah_5 -> Cha_4^* Cha_1)
2.98867502E-22	2	1000024	13	# BR(Ah_5 -> Cha_4^* Cha_2)
4.73470255E-01	2	1000024	15	# BR(Ah_5 -> Cha_4^* Cha_3)
2.41075839E-13	2	1000024	-1000024	# BR(Ah_5 -> Cha_4^* Cha_4)
3.12332153E-19	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1)
1.19353219E-16	2	12	14	# BR(Ah_5 -> Chi_1 Chi_2)
1.52844505E-13	2	12	16	# BR(Ah_5 -> Chi_1 Chi_3)
7.95206058E-03	2	12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
3.99947954E-03	2	12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
2.16679240E-16	2	14	14	# BR(Ah_5 -> Chi_2 Chi_2)
1.61769301E-13	2	14	16	# BR(Ah_5 -> Chi_2 Chi_3)
7.76327321E-03	2	14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
3.90452915E-03	2	14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
7.50614365E-13	2	16	16	# BR(Ah_5 -> Chi_3 Chi_3)
1.95882570E-02	2	16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
9.85189087E-03	2	16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
1.66803558E-13	2	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4)
8.44112299E-14	2	1000022	1000023	# BR(Ah_5 -> Chi_4 Chi_5)
3.80057958E-14	2	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5)
2.52204441E-19	2	-1	1	# BR(Ah_5 -> Fd_1^* Fd_1)
9.07156305E-17	2	-3	3	# BR(Ah_5 -> Fd_2^* Fd_2)
2.43560351E-13	2	-5	5	# BR(Ah_5 -> Fd_3^* Fd_3)
4.33384113E-20	2	-2	2	# BR(Ah_5 -> Fu_1^* Fu_1)
1.02954485E-14	2	-4	4	# BR(Ah_5 -> Fu_2^* Fu_2)
1.85974863E-11	2	25	23	# BR(Ah_5 -> hh_1 VZ)
DECAY 2000018	3.43005000E-02	# Ah_6		
# BR	NDA	ID1	ID2	
1.29911634E-14	2	22	22	# BR(Ah_6 -> VP VP)
2.44580956E-12	2	21	21	# BR(Ah_6 -> VG VG)
2.84794612E-10	2	25	36	# BR(Ah_6 -> hh_1 Ah_2)
3.37079170E-10	2	25	1000017	# BR(Ah_6 -> hh_1 Ah_3)
2.46636974E-10	2	25	1000018	# BR(Ah_6 -> hh_1 Ah_4)
4.23159026E-23	2	25	1000019	# BR(Ah_6 -> hh_1 Ah_5)
1.52283006E-21	2	35	36	# BR(Ah_6 -> hh_2 Ah_2)
2.15323055E-21	2	35	1000017	# BR(Ah_6 -> hh_2 Ah_3)
2.58909077E-21	2	35	1000018	# BR(Ah_6 -> hh_2 Ah_4)
8.60289971E-21	2	-11	11	# BR(Ah_6 -> Cha_1^* Cha_1)
2.03784455E-14	2	-11	13	# BR(Ah_6 -> Cha_1^* Cha_2)
2.52239599E-22	2	-11	-1000024	# BR(Ah_6 -> Cha_1^* Cha_4)
2.03784455E-14	2	-13	11	# BR(Ah_6 -> Cha_2^* Cha_1)
1.68695543E-13	2	-13	13	# BR(Ah_6 -> Cha_2^* Cha_2)
6.19345794E-14	2	-13	15	# BR(Ah_6 -> Cha_2^* Cha_3)
3.06049959E-01	2	-13	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4)
6.19345794E-14	2	-15	13	# BR(Ah_6 -> Cha_3^* Cha_2)
1.11064010E-13	2	-15	15	# BR(Ah_6 -> Cha_3^* Cha_3)
1.70405987E-21	2	-15	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4)
2.52239599E-22	2	1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1)
3.06049959E-01	2	1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2)
1.70405987E-21	2	1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3)
1.79418550E-12	2	1000024	-1000024	# BR(Ah_6 -> Cha_4^* Cha_4)
5.34494105E-19	2	12	12	# BR(Ah_6 -> Chi_1 Chi_1)
2.31398260E-16	2	12	14	# BR(Ah_6 -> Chi_1 Chi_2)
2.59478725E-13	2	12	16	# BR(Ah_6 -> Chi_1 Chi_3)
1.78248665E-02	2	12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
9.25246264E-03	2	12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
2.91029972E-15	2	14	14	# BR(Ah_6 -> Chi_2 Chi_2)
1.90618729E-12	2	14	16	# BR(Ah_6 -> Chi_2 Chi_3)
1.36579546E-01	2	14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)
7.08951817E-02	2	14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
2.95324405E-12	2	16	16	# BR(Ah_6 -> Chi_3 Chi_3)
1.00948214E-01	2	16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)

5.23998079E-02	2		16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
6.80408170E-14	2	1000022		1000022	# BR(Ah_6 -> Chi_4 Chi_4)
1.45646763E-12	2	1000022		1000023	# BR(Ah_6 -> Chi_4 Chi_5)
1.46632411E-12	2	1000023		1000023	# BR(Ah_6 -> Chi_5 Chi_5)
6.91627915E-19	2		-1	1	# BR(Ah_6 -> Fd_1^* Fd_1)
2.48772219E-16	2		-3	3	# BR(Ah_6 -> Fd_2^* Fd_2)
6.67973981E-13	2		-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
1.27734934E-19	2		-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)
3.03447391E-14	2		-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
2.14846453E-09	2		-6	6	# BR(Ah_6 -> Fu_3^* Fu_3)
2.23345385E-11	2		25	23	# BR(Ah_6 -> hh_1 VZ)
3.38053369E-22	2		35	23	# BR(Ah_6 -> hh_2 VZ)
3.85228867E-23	2		37	24	# BR(Ah_6 -> Hpm_2 VWm^*)
3.85228867E-23	2		-37	-24	# BR(Ah_6 -> Hpm_2^* VWm)
DECAY	2000019	2.91986137E+00	# Ah_7		
#	BR	NDA	ID1	ID2	
1.00715100E-06	2		22	22	# BR(Ah_7 -> VP VP)
2.95879279E-04	2		21	21	# BR(Ah_7 -> VG VG)
2.17215214E-02	2		25	36	# BR(Ah_7 -> hh_1 Ah_2)
8.88335980E-05	2		25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
8.63428360E-05	2		25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
9.82312288E-16	2		25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
2.28444691E-15	2		25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
1.95483009E-13	2		35	36	# BR(Ah_7 -> hh_2 Ah_2)
1.17494063E-15	2		35	1000017	# BR(Ah_7 -> hh_2 Ah_3)
2.89236600E-15	2		35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
2.28962132E-27	2		35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
4.18340370E-27	2		35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
8.00459664E-14	2	1000012		36	# BR(Ah_7 -> hh_3 Ah_2)
3.34610319E-15	2	1000012		1000017	# BR(Ah_7 -> hh_3 Ah_3)
4.73663200E-16	2	1000012		1000018	# BR(Ah_7 -> hh_3 Ah_4)
1.77534200E-28	2	1000012		1000019	# BR(Ah_7 -> hh_3 Ah_5)
2.88627206E-05	2	1000014		36	# BR(Ah_7 -> hh_4 Ah_2)
2.78261605E-05	2	1000014		1000017	# BR(Ah_7 -> hh_4 Ah_3)
2.11526751E-06	2	1000014		1000018	# BR(Ah_7 -> hh_4 Ah_4)
9.67752683E-09	2		-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)
1.81437672E-25	2		-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
9.85766635E-23	2		-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
8.32272673E-15	2		-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
1.81437672E-25	2		-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
4.32316544E-04	2		-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
4.01876444E-22	2		-13	15	# BR(Ah_7 -> Cha_2^* Cha_3)
4.36349943E-14	2		-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
9.85766635E-23	2		-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
4.01876444E-22	2		-15	13	# BR(Ah_7 -> Cha_3^* Cha_2)
1.24938650E-01	2		-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
1.03352622E-14	2		-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
8.32272673E-15	2	1000024		11	# BR(Ah_7 -> Cha_4^* Cha_1)
4.36349943E-14	2	1000024		13	# BR(Ah_7 -> Cha_4^* Cha_2)
1.03352622E-14	2	1000024		15	# BR(Ah_7 -> Cha_4^* Cha_3)
1.06408756E-02	2	1000024		-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
2.16430160E-30	2		12	12	# BR(Ah_7 -> Chi_1 Chi_1)
1.14319115E-28	2		12	14	# BR(Ah_7 -> Chi_1 Chi_2)
1.47095721E-25	2		12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.05324006E-14	2		12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
5.53556393E-15	2		12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
2.47700730E-14	2		12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
2.04582031E-18	2		12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
3.69832149E-20	2		12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
1.37308769E-19	2		12	1000055	# BR(Ah_7 -> Chi_1 Chi_9)
2.37055442E-28	2		14	14	# BR(Ah_7 -> Chi_2 Chi_2)
7.52797882E-26	2		14	16	# BR(Ah_7 -> Chi_2 Chi_3)
5.38357762E-15	2		14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
3.75102147E-15	2		14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
1.44416932E-14	2		14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
7.96551599E-18	2		14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
6.24893400E-18	2		14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
7.56851392E-20	2		14	1000055	# BR(Ah_7 -> Chi_2 Chi_9)
6.81489051E-25	2		16	16	# BR(Ah_7 -> Chi_3 Chi_3)
1.23527809E-13	2		16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
2.58357367E-15	2		16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
5.70013933E-14	2		16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
2.41263692E-18	2		16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)

1.66951444E-18	2		16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
9.61942215E-20	2		16	1000055	# BR(Ah_7 -> Chi_3 Chi_9)
5.66953311E-03	2	1000022		1000022	# BR(Ah_7 -> Chi_4 Chi_4)
3.11080669E-05	2	1000022		1000023	# BR(Ah_7 -> Chi_4 Chi_5)
2.11508554E-03	2	1000023		1000023	# BR(Ah_7 -> Chi_5 Chi_5)
7.78022266E-07	2		-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
2.79847481E-04	2		-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
7.51421716E-01	2		-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
4.54268180E-12	2		-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
1.07916097E-06	2		-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
8.18883482E-02	2		-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
3.28263301E-04	2		25	23	# BR(Ah_7 -> hh_1 VZ)
4.50533098E-15	2		35	23	# BR(Ah_7 -> hh_2 VZ)
1.34989941E-15	2	1000012		23	# BR(Ah_7 -> hh_3 VZ)
3.18167330E-28	2		-37	1000011	# BR(Ah_7 -> Hpm_2^* Hpm_3)
3.18167330E-28	2	-1000011		37	# BR(Ah_7 -> Hpm_3^* Hpm_2)
8.76215195E-16	2		37	24	# BR(Ah_7 -> Hpm_2 Vwm^*)
8.76215195E-16	2		-37	-24	# BR(Ah_7 -> Hpm_2^* Vwm)
3.55930991E-15	2	1000011		24	# BR(Ah_7 -> Hpm_3 Vwm^*)
3.55930991E-15	2	-1000011		-24	# BR(Ah_7 -> Hpm_3^* Vwm)
DECAY	2000020	2.13874669E-01	# Ah_8		
#	BR	NDA	ID1	ID2	
3.51496584E-16	2		22	22	# BR(Ah_8 -> VP VP)
2.09743262E-13	2		21	21	# BR(Ah_8 -> VG VG)
2.29137385E-11	2		25	36	# BR(Ah_8 -> hh_1 Ah_2)
3.38671381E-11	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
2.47190316E-12	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
6.75918879E-25	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
2.35359951E-25	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
1.68553695E-22	2		35	36	# BR(Ah_8 -> hh_2 Ah_2)
2.89379609E-22	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
3.22621987E-23	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
1.93305230E-23	2	1000012		36	# BR(Ah_8 -> hh_3 Ah_2)
1.41060316E-22	2	1000012		1000017	# BR(Ah_8 -> hh_3 Ah_3)
6.28512501E-26	2	1000012		1000018	# BR(Ah_8 -> hh_3 Ah_4)
1.92077288E-13	2	1000014		36	# BR(Ah_8 -> hh_4 Ah_2)
3.04882630E-13	2	1000014		1000017	# BR(Ah_8 -> hh_4 Ah_3)
2.24119639E-14	2	1000014		1000018	# BR(Ah_8 -> hh_4 Ah_4)
8.25496043E-15	2	1000016		36	# BR(Ah_8 -> hh_5 Ah_2)
2.44533616E-15	2	1000016		1000017	# BR(Ah_8 -> hh_5 Ah_3)
2.77640820E-16	2	1000016		1000018	# BR(Ah_8 -> hh_5 Ah_4)
3.13097931E-14	2	2000012		36	# BR(Ah_8 -> hh_6 Ah_2)
8.80422323E-15	2	2000012		1000017	# BR(Ah_8 -> hh_6 Ah_3)
2.45514160E-16	2	2000012		1000018	# BR(Ah_8 -> hh_6 Ah_4)
8.22041143E-14	2	2000014		36	# BR(Ah_8 -> hh_7 Ah_2)
2.31469516E-14	2	2000014		1000017	# BR(Ah_8 -> hh_7 Ah_3)
1.31614534E-15	2	2000014		1000018	# BR(Ah_8 -> hh_7 Ah_4)
2.06795526E-19	2		-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
3.71712634E-17	2		-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
1.64159443E-14	2		-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
8.62271510E-02	2		-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
3.71712634E-17	2		-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
4.38699210E-17	2		-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
7.62954344E-23	2		-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
1.64159443E-14	2		-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
1.26783402E-14	2		-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
1.28479355E-22	2		-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
8.62271510E-02	2	1000024		11	# BR(Ah_8 -> Cha_4^* Cha_1)
7.62954344E-23	2	1000024		13	# BR(Ah_8 -> Cha_4^* Cha_2)
1.28479355E-22	2	1000024		15	# BR(Ah_8 -> Cha_4^* Cha_3)
1.44109613E-13	2	1000024		-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
1.48950088E-18	2		12	12	# BR(Ah_8 -> Chi_1 Chi_1)
5.06072113E-16	2		12	14	# BR(Ah_8 -> Chi_1 Chi_2)
7.26208000E-13	2		12	16	# BR(Ah_8 -> Chi_1 Chi_3)
5.24572363E-02	2		12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
2.73882537E-02	2		12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
5.03530201E-01	2		12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
1.59638623E-07	2		12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
8.95070889E-08	2		12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
5.55060483E-08	2		12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
3.68212785E-16	2		14	14	# BR(Ah_8 -> Chi_2 Chi_2)
2.58952153E-13	2		14	16	# BR(Ah_8 -> Chi_2 Chi_3)
1.82485385E-02	2		14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)

9.52767694E-03	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
1.75165351E-01	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
5.55342170E-08	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
3.11372401E-08	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
1.93091425E-08	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
1.02699624E-13	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
3.70722915E-03	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
1.93556770E-03	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
3.55852113E-02	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
1.12818936E-08	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
6.32559606E-09	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
3.92269313E-09	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
1.69375187E-14	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
7.34206541E-14	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
1.74081850E-13	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
2.03925656E-13	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
2.26370539E-15	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
9.52090784E-14	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
3.33737392E-13	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
1.21875111E-14	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
1.48006098E-16	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
7.89508895E-20	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
2.83979111E-17	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
7.62516634E-14	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
5.00342614E-21	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
1.18861536E-15	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
9.09991501E-11	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
3.14661709E-13	2	25	23	# BR(Ah_8 -> hh_1 VZ)
6.02294347E-24	2	35	23	# BR(Ah_8 -> hh_2 VZ)
2.25825153E-24	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
4.78400780E-12	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
7.47998159E-15	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
1.00959708E-14	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
1.73970470E-14	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
7.00903257E-25	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)
7.00903257E-25	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)
9.87788564E-25	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)
9.87788564E-25	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)
3.37283652E-15	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)
3.37283652E-15	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)
3.71368234E-28	2	1000013	24	# BR(Ah_8 -> Hpm_5 Vwm^*)
3.71368234E-28	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* Vwm)
7.02249332E-31	2	2000013	24	# BR(Ah_8 -> Hpm_6 Vwm^*)
7.02249332E-31	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* Vwm)
3.71530522E-12	2	1000015	24	# BR(Ah_8 -> Hpm_7 Vwm^*)
3.71530522E-12	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* Vwm)

DECAY #	BR	37 NDA	8.75104610E-02 ID1	# Hpm_2 ID2	
1.14353209E-11	2		36	-24	# BR(Hpm_2 -> Ah_2 Vwm)
1.94402735E-12	2		1000017	-24	# BR(Hpm_2 -> Ah_3 Vwm)
2.75243127E-11	2		1000018	-24	# BR(Hpm_2 -> Ah_4 Vwm)
1.52900349E-14	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
1.01434669E-13	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
3.35782272E-12	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
4.83235029E-04	2		12	-1000024	# BR(Hpm_2 -> Chi_1 Cha_4)
1.49270373E-14	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
9.91060963E-14	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
1.51423794E-12	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
4.71762698E-04	2		14	-1000024	# BR(Hpm_2 -> Chi_2 Cha_4)
3.76638330E-14	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
2.49901411E-13	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
8.34212119E-12	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
1.19034957E-03	2		16	-1000024	# BR(Hpm_2 -> Chi_3 Cha_4)
3.72224006E-24	2		1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)
2.81276495E-23	2		1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)
5.19525370E-01	2		1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)
2.29785899E-15	2		1000022	-1000024	# BR(Hpm_2 -> Chi_4 Cha_4)
2.12503092E-24	2		1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)
1.99265459E-23	2		1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)
4.78329282E-01	2		1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)
2.53044066E-13	2		1000023	-1000024	# BR(Hpm_2 -> Chi_5 Cha_4)
3.05733993E-19	2		-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)
5.09220032E-18	2		-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)

3.15607121E-18	2	-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)
5.23711666E-16	2	-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)
9.87123379E-15	2	-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)
4.73844113E-16	2	-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)
1.48712014E-14	2	-6	1	# BR(Hpm_2 -> Fu_3^* Fd_1)
7.03292669E-13	2	-6	3	# BR(Hpm_2 -> Fu_3^* Fd_2)
4.19938328E-10	2	-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)
2.71300152E-11	2	25	-24	# BR(Hpm_2 -> hh_1 Vwm)
2.36323703E-15	2	-24	23	# BR(Hpm_2 -> Vwm VZ)

DECAY 1000011 2.08315620E-03 # Hpm_3

#	BR	NDA	ID1	ID2	
1.26699912E-20	2		37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)
1.96384814E-20	2		37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3)
2.90259749E-20	2		37	1000018	# BR(Hpm_3 -> Hpm_2 Ah_4)
4.69452467E-09	2		36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
5.54558670E-09	2		1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm)
4.05644453E-09	2		1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm)
7.17090215E-22	2		1000019	-24	# BR(Hpm_3 -> Ah_5 Vwm)
3.77967743E-13	2		12	11	# BR(Hpm_3 -> Chi_1 Cha_1)
3.59147920E-12	2		12	13	# BR(Hpm_3 -> Chi_1 Cha_2)
4.46277120E-12	2		12	15	# BR(Hpm_3 -> Chi_1 Cha_3)
1.42277266E-02	2		12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)
2.89610278E-12	2		14	11	# BR(Hpm_3 -> Chi_2 Cha_1)
2.03965769E-11	2		14	13	# BR(Hpm_3 -> Chi_2 Cha_2)
3.05205913E-11	2		14	15	# BR(Hpm_3 -> Chi_2 Cha_3)
1.09017166E-01	2		14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)
2.14055771E-12	2		16	11	# BR(Hpm_3 -> Chi_3 Cha_1)
4.97988691E-12	2		16	13	# BR(Hpm_3 -> Chi_3 Cha_2)
2.35154937E-11	2		16	15	# BR(Hpm_3 -> Chi_3 Cha_3)
8.05764008E-02	2		16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)
3.00427329E-22	2		1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1)
4.16225662E-01	2		1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2)
6.31404599E-22	2		1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3)
6.48989147E-12	2		1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4)
6.05820282E-23	2		1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1)
3.79952999E-01	2		1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2)
2.52729868E-21	2		1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3)
1.25906755E-11	2		1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4)
1.49191859E-17	2		-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1)
2.52202449E-16	2		-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2)
1.56357281E-16	2		-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3)
2.30982941E-14	2		-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1)
4.35884366E-13	2		-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2)
2.33799777E-14	2		-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3)
1.09004458E-12	2		-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1)
5.15506707E-11	2		-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2)
3.07823018E-08	2		-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3)
5.35151970E-21	2		37	25	# BR(Hpm_3 -> Hpm_2 hh_1)
4.15337137E-10	2		25	-24	# BR(Hpm_3 -> hh_1 Vwm)
2.62597728E-21	2		35	-24	# BR(Hpm_3 -> hh_2 Vwm)
4.76219080E-29	2		37	23	# BR(Hpm_3 -> Hpm_2 VZ)
1.03283541E-12	2		-24	23	# BR(Hpm_3 -> Vwm VZ)

DECAY 2000011 2.52056230E+00 # Hpm_4

#	BR	NDA	ID1	ID2	
1.42341501E-13	2		37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
1.02592402E-15	2		37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
3.34968123E-15	2		37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
8.28627990E-05	2		37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
4.74918332E-27	2		37	2000018	# BR(Hpm_4 -> Hpm_2 Ah_6)
8.69988057E-14	2		1000011	36	# BR(Hpm_4 -> Hpm_3 Ah_2)
4.56319716E-15	2		1000011	1000017	# BR(Hpm_4 -> Hpm_3 Ah_3)
8.85788760E-16	2		1000011	1000018	# BR(Hpm_4 -> Hpm_3 Ah_4)
2.41314784E-27	2		1000011	1000019	# BR(Hpm_4 -> Hpm_3 Ah_5)
2.50735881E-02	2		36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
1.01626814E-04	2		1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm)
9.87121442E-05	2		1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm)
5.81186211E-15	2		1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm)
8.05169344E-15	2		2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm)
7.92603514E-09	2		12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
3.50608831E-05	2		12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
3.26958525E-02	2		12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
6.16085994E-15	2		12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
2.75726605E-09	2		14	11	# BR(Hpm_4 -> Chi_2 Cha_1)

2.68647146E-04	2		14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
3.19196305E-02	2		14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
6.05315448E-15	2		14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
5.60144426E-10	2		16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
1.98561573E-04	2		16	13	# BR(Hpm_4 -> Chi_3 Cha_2)
8.05394721E-02	2		16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
1.42071233E-14	2		16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)
1.44664223E-15	2	1000022		11	# BR(Hpm_4 -> Chi_4 Cha_1)
1.25803150E-14	2	1000022		13	# BR(Hpm_4 -> Chi_4 Cha_2)
3.36191389E-14	2	1000022		15	# BR(Hpm_4 -> Chi_4 Cha_3)
8.65676892E-05	2	1000022		-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)
5.65475540E-15	2	1000023		11	# BR(Hpm_4 -> Chi_5 Cha_1)
3.73538807E-14	2	1000023		13	# BR(Hpm_4 -> Chi_5 Cha_2)
2.74109953E-14	2	1000023		15	# BR(Hpm_4 -> Chi_5 Cha_3)
7.38195114E-04	2	1000023		-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)
1.86894895E-14	2	1000025		11	# BR(Hpm_4 -> Chi_6 Cha_1)
9.91181982E-14	2	1000025		13	# BR(Hpm_4 -> Chi_6 Cha_2)
7.43533810E-15	2	1000025		15	# BR(Hpm_4 -> Chi_6 Cha_3)
6.28829519E-18	2	1000039		11	# BR(Hpm_4 -> Chi_7 Cha_1)
8.96956376E-18	2	1000039		13	# BR(Hpm_4 -> Chi_7 Cha_2)
3.68374709E-17	2	1000039		15	# BR(Hpm_4 -> Chi_7 Cha_3)
8.14269946E-19	2	1000045		11	# BR(Hpm_4 -> Chi_8 Cha_1)
9.50946296E-18	2	1000045		13	# BR(Hpm_4 -> Chi_8 Cha_2)
1.40208646E-17	2	1000045		15	# BR(Hpm_4 -> Chi_8 Cha_3)
1.12329997E-19	2	1000055		11	# BR(Hpm_4 -> Chi_9 Cha_1)
4.77093003E-19	2	1000055		13	# BR(Hpm_4 -> Chi_9 Cha_2)
1.78383680E-18	2	1000055		15	# BR(Hpm_4 -> Chi_9 Cha_3)
7.79404982E-07	2		-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)
1.49982112E-05	2		-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)
9.30244546E-06	2		-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)
9.94435606E-08	2		-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)
2.80930078E-04	2		-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)
1.34506596E-03	2		-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)
2.97635915E-06	2		-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)
1.41220264E-04	2		-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)
8.25885728E-01	2		-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)
5.59220932E-15	2		37	25	# BR(Hpm_4 -> Hpm_2 hh_1)
8.28627990E-05	2		37	35	# BR(Hpm_4 -> Hpm_2 hh_2)
1.29442001E-28	2		37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)
2.01771142E-15	2	1000011		25	# BR(Hpm_4 -> Hpm_3 hh_1)
4.88877746E-27	2	1000011		35	# BR(Hpm_4 -> Hpm_3 hh_2)
3.97238607E-04	2		25	-24	# BR(Hpm_4 -> hh_1 Vwm)
2.15574267E-15	2		35	-24	# BR(Hpm_4 -> hh_2 Vwm)
6.69391000E-16	2	1000012		-24	# BR(Hpm_4 -> hh_3 Vwm)
3.28468572E-17	2		37	23	# BR(Hpm_4 -> Hpm_2 VZ)
6.05742044E-23	2	1000011		23	# BR(Hpm_4 -> Hpm_3 VZ)
9.35505503E-09	2		-24	23	# BR(Hpm_4 -> Vwm VZ)
DECAY	1000013	9.98932091E-01	#	Hpm_5	
#	BR	NDA	ID1	ID2	
6.69708093E-05	2		37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
1.97848582E-07	2		37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
1.87557776E-07	2		37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
4.74180266E-17	2		37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
1.75966838E-15	2		37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)
5.06811501E-27	2	1000011		36	# BR(Hpm_5 -> Hpm_3 Ah_2)
7.94812278E-28	2	1000011		1000017	# BR(Hpm_5 -> Hpm_3 Ah_3)
3.22365600E-27	2	1000011		1000018	# BR(Hpm_5 -> Hpm_3 Ah_4)
1.64863591E-15	2	1000011		1000019	# BR(Hpm_5 -> Hpm_3 Ah_5)
1.94953343E-15	2		36	-24	# BR(Hpm_5 -> Ah_2 Vwm)
8.77946853E-18	2	1000017		-24	# BR(Hpm_5 -> Ah_3 Vwm)
4.78948249E-16	2	1000018		-24	# BR(Hpm_5 -> Ah_4 Vwm)
1.81934131E-03	2	1000019		-24	# BR(Hpm_5 -> Ah_5 Vwm)
4.21257058E-26	2	2000018		-24	# BR(Hpm_5 -> Ah_6 Vwm)
1.44471804E-13	2		12	11	# BR(Hpm_5 -> Chi_1 Cha_1)
5.88251944E-13	2		12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
1.25004381E-12	2		12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
8.27229765E-02	2		12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
1.41041943E-13	2		14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
5.74318520E-13	2		14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
6.32181671E-13	2		14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
8.07590764E-02	2		14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
3.55876413E-13	2		16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
1.44905239E-12	2		16	13	# BR(Hpm_5 -> Chi_3 Cha_2)

1.61515843E-12	2		16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
2.03770948E-01	2		16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
3.03483991E-22	2	1000022		11	# BR(Hpm_5 -> Chi_4 Cha_1)
1.24606412E-21	2	1000022		13	# BR(Hpm_5 -> Chi_4 Cha_2)
1.96159329E-01	2	1000022		15	# BR(Hpm_5 -> Chi_4 Cha_3)
1.79849524E-15	2	1000022		-1000024	# BR(Hpm_5 -> Chi_4 Cha_4)
2.89851472E-22	2	1000023		11	# BR(Hpm_5 -> Chi_5 Cha_1)
1.19062982E-21	2	1000023		13	# BR(Hpm_5 -> Chi_5 Cha_2)
1.83323782E-01	2	1000023		15	# BR(Hpm_5 -> Chi_5 Cha_3)
7.87140016E-16	2	1000023		-1000024	# BR(Hpm_5 -> Chi_5 Cha_4)
1.87744291E-27	2	1000025		11	# BR(Hpm_5 -> Chi_6 Cha_1)
6.64836855E-24	2	1000025		13	# BR(Hpm_5 -> Chi_6 Cha_2)
2.45996001E-01	2	1000025		15	# BR(Hpm_5 -> Chi_6 Cha_3)
1.12344088E-27	2	1000039		11	# BR(Hpm_5 -> Chi_7 Cha_1)
5.52207362E-27	2	1000039		13	# BR(Hpm_5 -> Chi_7 Cha_2)
8.21177626E-07	2	1000039		15	# BR(Hpm_5 -> Chi_7 Cha_3)
7.67940334E-28	2	1000045		11	# BR(Hpm_5 -> Chi_8 Cha_1)
2.62840135E-27	2	1000045		13	# BR(Hpm_5 -> Chi_8 Cha_2)
4.63081447E-07	2	1000045		15	# BR(Hpm_5 -> Chi_8 Cha_3)
3.81125540E-28	2	1000055		11	# BR(Hpm_5 -> Chi_9 Cha_1)
1.56480870E-27	2	1000055		13	# BR(Hpm_5 -> Chi_9 Cha_2)
2.15080366E-07	2	1000055		15	# BR(Hpm_5 -> Chi_9 Cha_3)
1.06660547E-19	2		-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)
2.05247503E-18	2		-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)
1.27302380E-18	2		-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)
2.05283898E-20	2		-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)
3.85738989E-17	2		-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)
1.84070251E-16	2		-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)
7.66852563E-19	2		-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)
3.63295711E-17	2		-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)
1.23539001E-13	2		-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)
1.79106744E-03	2		37	25	# BR(Hpm_5 -> Hpm_2 hh_1)
4.10799021E-16	2		37	35	# BR(Hpm_5 -> Hpm_2 hh_2)
1.75253581E-15	2		37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)
5.39830652E-26	2	1000011		25	# BR(Hpm_5 -> Hpm_3 hh_1)
1.64863591E-15	2	1000011		35	# BR(Hpm_5 -> Hpm_3 hh_2)
1.57482285E-15	2		25	-24	# BR(Hpm_5 -> hh_1 Vwm)
1.81934131E-03	2		35	-24	# BR(Hpm_5 -> hh_2 Vwm)
3.65750557E-26	2	1000012		-24	# BR(Hpm_5 -> hh_3 Vwm)
1.76928038E-03	2		37	23	# BR(Hpm_5 -> Hpm_2 VZ)
2.82131890E-26	2	1000011		23	# BR(Hpm_5 -> Hpm_3 VZ)
1.11626988E-19	2		-24	23	# BR(Hpm_5 -> Vwm VZ)
DECAY	2000013	2.63173934E-01	#	Hpm_6	
#	BR	NDA	ID1	ID2	
2.08181842E-30	2		37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)
5.90603166E-29	2		37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
8.39471346E-29	2		37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
1.26802544E-19	2		37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
6.17503417E-17	2		37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
3.64811895E-07	2	1000011		36	# BR(Hpm_6 -> Hpm_3 Ah_2)
9.81292021E-10	2	1000011		1000017	# BR(Hpm_6 -> Hpm_3 Ah_3)
9.22820910E-10	2	1000011		1000018	# BR(Hpm_6 -> Hpm_3 Ah_4)
6.46387110E-17	2	1000011		1000019	# BR(Hpm_6 -> Hpm_3 Ah_5)
1.97344455E-19	2		36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
1.32804703E-17	2	1000017		-24	# BR(Hpm_6 -> Ah_3 Vwm)
1.21027196E-17	2	1000018		-24	# BR(Hpm_6 -> Ah_4 Vwm)
3.38196679E-29	2	1000019		-24	# BR(Hpm_6 -> Ah_5 Vwm)
2.20364867E-05	2	2000018		-24	# BR(Hpm_6 -> Ah_6 Vwm)
5.88008003E-16	2		12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
4.09168483E-15	2		12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
8.11047458E-17	2		12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
3.36881533E-04	2		12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
4.50549607E-15	2		14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
3.84446058E-15	2		14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
5.44713109E-16	2		14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
2.58128872E-03	2		14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
3.33008708E-15	2		16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
4.14132775E-13	2		16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
4.22596380E-16	2		16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
1.90787343E-03	2		16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
1.77490134E-23	2	1000022		11	# BR(Hpm_6 -> Chi_4 Cha_1)
3.53119893E-02	2	1000022		13	# BR(Hpm_6 -> Chi_4 Cha_2)
1.55944828E-23	2	1000022		15	# BR(Hpm_6 -> Chi_4 Cha_3)

1.68987350E-17	2	1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
8.98018818E-24	2	1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1)
1.64989548E-02	2	1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2)
1.44430281E-23	2	1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3)
6.69159381E-18	2	1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
4.36139638E-22	2	1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1)
9.43275571E-01	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)
2.55355772E-23	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)
4.81271081E-29	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)
9.74496422E-08	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)
6.68512131E-29	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)
2.34128983E-29	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)
3.60834950E-08	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)
3.47695011E-29	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)
7.32614655E-30	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1)
1.31974729E-08	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)
1.80306868E-29	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)
2.73595790E-22	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)
5.26474264E-21	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)
3.26539550E-21	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)
1.03538207E-22	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)
9.98945976E-20	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)
4.72154822E-19	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)
4.59936300E-21	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)
2.17676698E-19	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)
3.91021157E-16	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)
1.10804807E-28	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1)
1.26802544E-19	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2)
6.17503417E-17	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)
2.21037131E-05	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1)
1.02809495E-16	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2)
2.14006386E-18	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm)
3.80738302E-30	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm)
2.20364867E-05	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm)
4.81191174E-30	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)
2.07505337E-05	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ)
2.93482273E-21	2	-24	23	# BR(Hpm_6 -> Vwm VZ)
DECAY # 1000015	2.60620911E-01	# Hpm_7		
#	NDA	ID1	ID2	
9.12809556E-25	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
1.73685478E-28	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2)
6.63046277E-22	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
5.35720360E-22	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
3.55533795E-23	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
1.05333343E-26	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
1.18325700E-18	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
5.51846597E-19	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
1.71075287E-20	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
7.70592594E-08	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
3.09741853E-16	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
1.91973760E-19	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
5.98039510E-21	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
2.68069562E-08	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
4.15933632E-13	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
3.90000789E-20	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
1.31989449E-21	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
5.44589001E-09	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
3.31724118E-02	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
1.64998630E-23	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
8.75767525E-29	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3)
6.84032911E-23	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
1.42748219E-02	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
7.71565416E-24	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
8.07809195E-29	2	1000023	15	# BR(Hpm_7 -> Chi_5 Cha_3)
3.44820163E-23	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
9.52552529E-01	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
4.40428324E-22	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
1.35614105E-28	2	1000025	15	# BR(Hpm_7 -> Chi_6 Cha_3)
8.76549641E-08	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
4.55701092E-29	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
3.02746204E-08	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
1.68782976E-29	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
1.04223253E-08	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)

6.17505884E-30	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
1.10475587E-27	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1)
2.12582721E-26	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
1.31851959E-26	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
6.15494644E-28	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
4.07045461E-25	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
1.90649988E-24	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
2.87845207E-26	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
1.36194440E-24	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
1.87210671E-21	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
9.12809556E-25	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2)
1.05633798E-26	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
5.84608067E-25	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)
1.05338569E-26	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)
9.91850645E-27	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)
1.41312888E-25	2	-24	23	# BR(Hpm_7 -> Vwm VZ)
DECAY 2000015	1.61502290E-01	# Hpm_8		
#	BR	NDA	ID1	ID2
1.24927397E-22	2	37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
2.32068287E-22	2	37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
3.06181078E-23	2	37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
1.01959309E-13	2	37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
1.91521032E-23	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2)
1.72209954E-22	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3)
3.22291450E-25	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4)
1.18920633E-13	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2)
2.08087614E-14	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3)
8.78577157E-16	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4)
3.00063879E-27	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2)
2.49550302E-27	2	1000013	1000017	# BR(Hpm_8 -> Hpm_5 Ah_3)
1.14420820E-27	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4)
1.13989007E-30	2	2000013	36	# BR(Hpm_8 -> Hpm_6 Ah_2)
1.05340961E-29	2	2000013	1000017	# BR(Hpm_8 -> Hpm_6 Ah_3)
2.78130563E-12	2	1000015	36	# BR(Hpm_8 -> Hpm_7 Ah_2)
7.28909207E-15	2	1000015	1000017	# BR(Hpm_8 -> Hpm_7 Ah_3)
6.82940978E-15	2	1000015	1000018	# BR(Hpm_8 -> Hpm_7 Ah_4)
2.98137053E-11	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm)
4.43483078E-11	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm)
3.23966747E-12	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm)
1.03394469E-24	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm)
1.39215889E-24	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm)
5.91025292E-15	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm)
8.38524132E-14	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1)
5.61102224E-13	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2)
8.76000733E-13	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3)
3.34184008E-03	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4)
2.64569568E-14	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1)
1.95242340E-13	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2)
3.08675713E-13	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3)
1.16254118E-03	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4)
5.69788739E-14	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1)
3.96914871E-14	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2)
7.68999461E-14	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3)
2.36172696E-04	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4)
5.26578718E-03	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1)
2.28391669E-24	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2)
4.02957661E-24	2	1000022	15	# BR(Hpm_8 -> Chi_4 Cha_3)
2.26747621E-14	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
4.68852324E-03	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
8.36382645E-24	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
1.31276259E-23	2	1000023	15	# BR(Hpm_8 -> Chi_5 Cha_3)
5.33082942E-14	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
9.85305101E-01	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
9.70466067E-22	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
1.57634045E-21	2	1000025	15	# BR(Hpm_8 -> Chi_6 Cha_3)
6.66127392E-13	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
2.79599366E-08	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
7.36232797E-26	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
7.48209818E-26	2	1000039	15	# BR(Hpm_8 -> Chi_7 Cha_3)
2.93885348E-13	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
5.62994493E-09	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
2.33571442E-25	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
1.73226911E-27	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)

2.91687596E-15	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
1.09851265E-09	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
5.06641835E-26	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
1.93437154E-27	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
1.55186964E-19	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
2.87455180E-18	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
1.78272363E-18	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
7.39867936E-17	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
1.43464894E-15	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
2.60240250E-16	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
3.86181877E-15	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
1.82634186E-13	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
1.09140997E-10	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
7.55951510E-24	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
1.01959309E-13	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
2.48506856E-24	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
1.97599786E-13	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
3.02205667E-24	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm)
3.30104155E-25	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
7.55827453E-12	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
7.89637046E-15	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
9.26446751E-15	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
1.98598882E-14	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
2.22220293E-29	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
2.36074040E-29	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
1.12062620E-14	2	-24	23	# BR(Hpm_8 -> Vwm VZ)