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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
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# 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: 26.09.2019, 14:23
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 3.89370728E+00 # TanBeta
Block EXTPAR # Input parameters
  65 1.98353911E+02 # vR1Input
  66 1.98353911E+02 # vR2Input
  67 1.98353911E+02 # 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 7.08001669E+05 # mHd2
  22 -9.67974062E+01 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMIX # (SUSY Scale)
  102 5.92527296E+01 # vd
  103 2.30712784E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 5.89022991E-05 # 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 1.11711256E-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 5.78867402E-02 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 1.14618794E-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 2.42256018E-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      4.11835236E-02 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      5.18974020E-01 # Real(lam(1) ,dp)
  2      5.18974020E-01 # Real(lam(2) ,dp)
  3      5.18974020E-01 # 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      6.40127770E-06 # Real(Yu(1,1),dp)
  1 2      1.48061243E-06 # Real(Yu(1,2),dp)
  1 3      2.25032968E-08 # Real(Yu(1,3),dp)
  2 1     -7.21484893E-04 # Real(Yu(2,1),dp)
  2 2      3.11726225E-03 # Real(Yu(2,2),dp)
  2 3      1.31888445E-04 # Real(Yu(2,3),dp)
  3 1      5.34691946E-03 # Real(Yu(3,1),dp)
  3 2     -3.67704241E-02 # Real(Yu(3,2),dp)
  3 3      8.98340843E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      2.08022631E-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      2.12183080E-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      2.16343528E-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      4.46304251E+02 # Real(Tlam(1) ,dp)
  2      4.46304251E+02 # Real(Tlam(2) ,dp)
  3      4.46304251E+02 # 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     -3.58579500E+02 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1    -1.48852031E-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     -1.48852031E-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     -1.48852031E-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      6.50834911E+05 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      2.41516126E+05 # 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      1.03636377E+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      3.82786801E+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      6.50834911E+05 # 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      7.32096366E+03 # 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      7.28851757E+03 # 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      7.25466775E+03 # 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      1.98353911E+02 # vR(1)
2      1.98353911E+02 # vR(2)
3      1.98353911E+02 # 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      8.08586987E+02 # Sd_1
1000003      1.00026250E+03 # Sd_2
1000005      1.00026282E+03 # Sd_3
2000001      1.00027229E+03 # Sd_4
2000003      1.00149148E+03 # Sd_5
2000005      1.00149180E+03 # Sd_6
1000002      7.77080641E+02 # Su_1
1000004      8.58658405E+02 # Su_2
1000006      9.98769507E+02 # Su_3
2000002      9.98789367E+02 # Su_4
2000004      9.99474153E+02 # Su_5
2000006      9.99474602E+02 # Su_6
      25      1.02809049E+02 # hh_1
      35      1.03575380E+02 # hh_2
1000012      1.07432905E+02 # hh_3
1000014      1.25300966E+02 # hh_4
1000016      1.38250759E+02 # hh_5

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2000012      2.93041690E+02 # hh_6
2000014      4.75636361E+02 # hh_7
2000016      9.01466848E+02 # hh_8
   36      8.99232385E+01 # Ah_2
1000017      1.04622457E+02 # Ah_3
1000018      1.05023602E+02 # Ah_4
1000019      1.38250759E+02 # Ah_5
2000018      2.93041690E+02 # Ah_6
2000019      4.75636361E+02 # Ah_7
2000020      9.03921515E+02 # Ah_8
   37      1.55712812E+02 # Hpm_2
1000011      3.01673168E+02 # Hpm_3
2000011      4.79639910E+02 # Hpm_4
1000013      8.86698586E+02 # Hpm_5
2000013      1.00280802E+03 # Hpm_6
1000015      1.00284928E+03 # Hpm_7
2000015      1.00284936E+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      8.37709491E-12 # Chi_1
   14      2.74807903E-11 # Chi_2
   16      7.36415727E-11 # Chi_3
1000022      5.86581447E+01 # Chi_4
1000023      5.99938991E+01 # Chi_5
1000025      7.30958991E+01 # Chi_6
1000039      2.50936912E+02 # Chi_7
1000045      2.69058432E+02 # Chi_8
1000055      8.95828501E+02 # Chi_9
1000065      1.77227146E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      2.16535147E+02 # Cha_4
1000037      1.77234947E+03 # Cha_5
Block DSQMIX # ( )
 1 1      0.00000000E+00 # Real(ZD(1,1),dp)
 1 2      0.00000000E+00 # Real(ZD(1,2),dp)
 1 3     -9.99981173E-01 # Real(ZD(1,3),dp)
 1 4      0.00000000E+00 # Real(ZD(1,4),dp)
 1 5      0.00000000E+00 # Real(ZD(1,5),dp)
 1 6      6.13630620E-03 # Real(ZD(1,6),dp)
 2 1     -4.74473237E-14 # Real(ZD(2,1),dp)
 2 2      1.61746248E-02 # Real(ZD(2,2),dp)
 2 3      0.00000000E+00 # Real(ZD(2,3),dp)
 2 4     -1.55178745E-13 # Real(ZD(2,4),dp)
 2 5      9.99869182E-01 # Real(ZD(2,5),dp)
 2 6      0.00000000E+00 # Real(ZD(2,6),dp)
 3 1      8.53177776E-04 # Real(ZD(3,1),dp)
 3 2      2.51126478E-15 # Real(ZD(3,2),dp)
 3 3      0.00000000E+00 # Real(ZD(3,3),dp)
 3 4      9.99999636E-01 # Real(ZD(3,4),dp)
 3 5      1.55198854E-13 # Real(ZD(3,5),dp)
 3 6      0.00000000E+00 # Real(ZD(3,6),dp)
 4 1      0.00000000E+00 # Real(ZD(4,1),dp)
 4 2      0.00000000E+00 # Real(ZD(4,2),dp)
 4 3      6.13630620E-03 # Real(ZD(4,3),dp)
 4 4      0.00000000E+00 # Real(ZD(4,4),dp)
 4 5      0.00000000E+00 # Real(ZD(4,5),dp)
 4 6      9.99981173E-01 # Real(ZD(4,6),dp)
 5 1     -9.99999636E-01 # Real(ZD(5,1),dp)
 5 2     -2.92346494E-12 # Real(ZD(5,2),dp)
 5 3     -0.00000000E+00 # Real(ZD(5,3),dp)
 5 4      8.53177776E-04 # Real(ZD(5,4),dp)
 5 5     -2.89665554E-17 # Real(ZD(5,5),dp)
 5 6     -0.00000000E+00 # Real(ZD(5,6),dp)
 6 1     -2.92308096E-12 # Real(ZD(6,1),dp)

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6 2      9.99869182E-01 # Real(ZD(6,2),dp)
6 3      0.00000000E+00 # Real(ZD(6,3),dp)
6 4      2.49325560E-15 # Real(ZD(6,4),dp)
6 5     -1.61746248E-02 # Real(ZD(6,5),dp)
6 6      0.00000000E+00 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -1.43444924E-04 # Real(ZU(1,1),dp)
1 2      9.86473583E-04 # Real(ZU(1,2),dp)
1 3      7.10928637E-01 # Real(ZU(1,3),dp)
1 4      3.83033137E-10 # Real(ZU(1,4),dp)
1 5      2.24489662E-06 # Real(ZU(1,5),dp)
1 6      7.03263449E-01 # Real(ZU(1,6),dp)
2 1      4.79015181E-04 # Real(ZU(2,1),dp)
2 2     -3.29417611E-03 # Real(ZU(2,2),dp)
2 3     -7.03257543E-01 # Real(ZU(2,3),dp)
2 4     -6.16702161E-10 # Real(ZU(2,4),dp)
2 5     -3.61439127E-06 # Real(ZU(2,5),dp)
2 6      7.10927385E-01 # Real(ZU(2,6),dp)
3 1     -9.89691173E-01 # Real(ZU(3,1),dp)
3 2     -1.43207395E-01 # Real(ZU(3,2),dp)
3 3     -2.13820903E-06 # Real(ZU(3,3),dp)
3 4     -4.25432220E-05 # Real(ZU(3,4),dp)
3 5      1.73868295E-03 # Real(ZU(3,5),dp)
3 6      1.16648805E-06 # Real(ZU(3,6),dp)
4 1      1.43137566E-01 # Real(ZU(4,1),dp)
4 2     -9.89467329E-01 # Real(ZU(4,2),dp)
4 3      3.04912019E-03 # Real(ZU(4,3),dp)
4 4     -3.66861514E-06 # Real(ZU(4,4),dp)
4 5     -2.13066238E-02 # Real(ZU(4,5),dp)
4 6     -1.66515591E-03 # Real(ZU(4,6),dp)
5 1     -4.15944503E-05 # Real(ZU(5,1),dp)
5 2     -9.65734216E-06 # Real(ZU(5,2),dp)
5 3      1.01988685E-08 # Real(ZU(5,3),dp)
5 4      9.99999999E-01 # Real(ZU(5,4),dp)
5 5     -3.12945949E-06 # Real(ZU(5,5),dp)
5 6     -5.78229300E-09 # Real(ZU(5,6),dp)
6 1     -4.77162978E-03 # Real(ZU(6,1),dp)
6 2      2.08379920E-02 # Real(ZU(6,2),dp)
6 3     -6.08462702E-05 # Real(ZU(6,3),dp)
6 4     -3.12597722E-06 # Real(ZU(6,4),dp)
6 5     -9.99771476E-01 # Real(ZU(6,5),dp)
6 6      3.44979465E-05 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1     -5.64661965E-03 # ZH(1,1)
1 2      1.84170137E-02 # ZH(1,2)
1 3     -8.29653433E-01 # ZH(1,3)
1 4      5.23175185E-01 # ZH(1,4)
1 5      1.93886142E-01 # ZH(1,5)
1 6     -6.25146961E-07 # ZH(1,6)
1 7      1.20851239E-06 # ZH(1,7)
1 8      1.31740100E-06 # ZH(1,8)
2 1     -6.76351289E-03 # ZH(2,1)
2 2      1.98189753E-02 # ZH(2,2)
2 3     -2.28632671E-01 # ZH(2,3)
2 4     -6.36281233E-01 # ZH(2,4)
2 5      7.36501702E-01 # ZH(2,5)
2 6     -1.53508864E-07 # ZH(2,6)
2 7     -1.36550948E-06 # ZH(2,7)
2 8      4.61059209E-06 # ZH(2,8)
3 1     -1.12779584E-01 # ZH(3,1)
3 2      1.71286597E-01 # ZH(3,2)
3 3     -4.93967388E-01 # ZH(3,3)
3 4     -5.54220151E-01 # ZH(3,4)
3 5     -6.37791432E-01 # ZH(3,5)
3 6     -2.68761005E-07 # ZH(3,6)
3 7     -9.17608615E-07 # ZH(3,7)
3 8     -2.73169820E-06 # ZH(3,8)
4 1     -2.61652656E-01 # ZH(4,1)
4 2     -9.55080091E-01 # ZH(4,2)
4 3     -8.70903867E-02 # ZH(4,3)
4 4     -8.02369762E-02 # ZH(4,4)
4 5     -7.30561409E-02 # ZH(4,5)
4 6     -7.54560082E-07 # ZH(4,6)

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4	7	-2.44113988E-06	# ZH(4,7)
4	8	-2.06067621E-05	# ZH(4,8)
5	1	5.68155611E-06	# ZH(5,1)
5	2	1.93237589E-05	# ZH(5,2)
5	3	9.95031740E-07	# ZH(5,3)
5	4	9.21111392E-07	# ZH(5,4)
5	5	6.89696290E-06	# ZH(5,5)
5	6	1.47593488E-11	# ZH(5,6)
5	7	4.85491441E-11	# ZH(5,7)
5	8	-1.00000000E+00	# ZH(5,8)
6	1	-7.77777031E-07	# ZH(6,1)
6	2	-2.16119370E-06	# ZH(6,2)
6	3	2.76347148E-08	# ZH(6,3)
6	4	-2.20247739E-06	# ZH(6,4)
6	5	1.08686686E-08	# ZH(6,5)
6	6	-2.12300101E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	4.41505419E-13	# ZH(6,8)
7	1	2.78921063E-07	# ZH(7,1)
7	2	6.48388670E-07	# ZH(7,2)
7	3	7.47928158E-07	# ZH(7,3)
7	4	-2.41946934E-08	# ZH(7,4)
7	5	-1.20387951E-08	# ZH(7,5)
7	6	-1.00000000E+00	# ZH(7,6)
7	7	-5.78638786E-13	# ZH(7,7)
7	8	-6.59419226E-15	# ZH(7,8)
8	1	9.58509793E-01	# ZH(8,1)
8	2	-2.40314260E-01	# ZH(8,2)
8	3	-8.83955134E-02	# ZH(8,3)
8	4	-8.85210167E-02	# ZH(8,4)
8	5	-8.86470296E-02	# ZH(8,5)
8	6	4.86269757E-08	# ZH(8,6)
8	7	3.45819595E-08	# ZH(8,7)
8	8	2.11630025E-08	# ZH(8,8)
Block PSEUDOSCALARMIX # ( )			
1	1	2.42848528E-01	# ZA(1,1)
1	2	-9.69274170E-01	# ZA(1,2)
1	3	-2.33396739E-02	# ZA(1,3)
1	4	-2.25780086E-02	# ZA(1,4)
1	5	-2.18556447E-02	# ZA(1,5)
1	6	6.01861585E-07	# ZA(1,6)
1	7	1.60387888E-06	# ZA(1,7)
1	8	1.99296174E-06	# ZA(1,8)
2	1	1.53485364E-01	# ZA(2,1)
2	2	-1.44981924E-03	# ZA(2,2)
2	3	5.91425132E-01	# ZA(2,3)
2	4	5.69892775E-01	# ZA(2,4)
2	5	5.49434873E-01	# ZA(2,5)
2	6	4.61174734E-07	# ZA(2,6)
2	7	1.28522332E-06	# ZA(2,7)
2	8	2.52903087E-06	# ZA(2,8)
3	1	-2.92971409E-03	# ZA(3,1)
3	2	-6.60233803E-04	# ZA(3,2)
3	3	7.73224311E-01	# ZA(3,3)
3	4	-5.97856180E-01	# ZA(3,4)
3	5	-2.11383854E-01	# ZA(3,5)
3	6	6.12465528E-07	# ZA(3,6)
3	7	-1.39539915E-06	# ZA(3,7)
3	8	-1.34536500E-06	# ZA(3,8)
4	1	-2.92693375E-03	# ZA(4,1)
4	2	-6.58716465E-04	# ZA(4,2)
4	3	2.10775898E-01	# ZA(4,3)
4	4	5.56715271E-01	# ZA(4,4)
4	5	-8.03512680E-01	# ZA(4,5)
4	6	1.67356617E-07	# ZA(4,6)
4	7	1.30279036E-06	# ZA(4,7)
4	8	-5.17245849E-06	# ZA(4,8)
5	1	9.01296919E-07	# ZA(5,1)
5	2	-1.92851436E-06	# ZA(5,2)
5	3	-6.82182684E-07	# ZA(5,3)
5	4	-6.79872783E-07	# ZA(5,4)
5	5	5.78560573E-06	# ZA(5,5)
5	6	5.75271034E-13	# ZA(5,6)

5	7	7.29133257E-13	# ZA(5,7)
5	8	-1.00000000E+00	# ZA(5,8)
6	1	6.12913840E-07	# ZA(6,1)
6	2	-1.54975343E-06	# ZA(6,2)
6	3	-8.39995019E-08	# ZA(6,3)
6	4	2.25344252E-06	# ZA(6,4)
6	5	-8.30636175E-08	# ZA(6,5)
6	6	1.23533927E-12	# ZA(6,6)
6	7	-1.00000000E+00	# ZA(6,7)
6	8	8.56681270E-13	# ZA(6,8)
7	1	-2.59565208E-07	# ZA(7,1)
7	2	5.73020396E-07	# ZA(7,2)
7	3	-7.63526552E-07	# ZA(7,3)
7	4	2.77838452E-08	# ZA(7,4)
7	5	2.77202665E-08	# ZA(7,5)
7	6	1.00000000E+00	# ZA(7,6)
7	7	3.12407979E-13	# ZA(7,7)
7	8	-1.01409936E-13	# ZA(7,8)
8	1	9.57835939E-01	# ZA(8,1)
8	2	2.45976852E-01	# ZA(8,2)
8	3	-8.58443912E-02	# ZA(8,3)
8	4	-8.57237023E-02	# ZA(8,4)
8	5	-8.56030973E-02	# ZA(8,5)
8	6	4.68813343E-08	# ZA(8,6)
8	7	2.70153858E-08	# ZA(8,7)
8	8	1.05016877E-08	# ZA(8,8)
Block CHARGEMIX # ( )			
1	1	2.48658185E-01	# ZP(1,1)
1	2	-9.68591300E-01	# ZP(1,2)
1	3	6.28337862E-07	# ZP(1,3)
1	4	1.67383405E-06	# ZP(1,4)
1	5	2.24889103E-06	# ZP(1,5)
1	6	-5.98282297E-16	# ZP(1,6)
1	7	-7.75310912E-13	# ZP(1,7)
1	8	1.19409181E-11	# ZP(1,8)
2	1	5.74627440E-07	# ZP(2,1)
2	2	-2.17429699E-06	# ZP(2,2)
2	3	1.53621003E-12	# ZP(2,3)
2	4	5.15533384E-12	# ZP(2,4)
2	5	-9.99999972E-01	# ZP(2,5)
2	6	7.42421289E-20	# ZP(2,6)
2	7	-5.76249387E-17	# ZP(2,7)
2	8	2.38361986E-04	# ZP(2,8)
3	1	4.37682869E-07	# ZP(3,1)
3	2	-1.61574920E-06	# ZP(3,2)
3	3	1.68872459E-12	# ZP(3,3)
3	4	-9.99999996E-01	# ZP(3,4)
3	5	-1.39070782E-12	# ZP(3,5)
3	6	7.97881423E-18	# ZP(3,6)
3	7	-9.25278331E-05	# ZP(3,7)
3	8	1.72284622E-15	# ZP(3,8)
4	1	-1.88562318E-07	# ZP(4,1)
4	2	6.00305100E-07	# ZP(4,2)
4	3	1.00000000E+00	# ZP(4,3)
4	4	6.35905789E-13	# ZP(4,4)
4	5	1.22615010E-13	# ZP(4,5)
4	6	5.15240692E-07	# ZP(4,6)
4	7	2.67116378E-16	# ZP(4,7)
4	8	-1.15042654E-15	# ZP(4,8)
5	1	9.68591300E-01	# ZP(5,1)
5	2	2.48658185E-01	# ZP(5,2)
5	3	3.33690441E-08	# ZP(5,3)
5	4	2.21665337E-08	# ZP(5,4)
5	5	1.59391383E-08	# ZP(5,5)
5	6	5.20870146E-13	# ZP(5,6)
5	7	2.35811957E-10	# ZP(5,7)
5	8	7.02380874E-08	# ZP(5,8)
6	1	6.81719409E-08	# ZP(6,1)
6	2	1.69354401E-08	# ZP(6,2)
6	3	1.56929706E-15	# ZP(6,3)
6	4	1.06603705E-15	# ZP(6,4)
6	5	-2.38361986E-04	# ZP(6,5)
6	6	4.20111899E-16	# ZP(6,6)



6	7	1.95531519E-13	# ZP(6,7)
6	8	-9.99999972E-01	# ZP(6,8)
7	1	-1.87714785E-10	# ZP(7,1)
7	2	-2.08889271E-10	# ZP(7,2)
7	3	1.39272896E-15	# ZP(7,3)
7	4	-9.25278331E-05	# ZP(7,4)
7	5	-1.03284985E-16	# ZP(7,5)
7	6	-3.23122247E-09	# ZP(7,6)
7	7	9.99999996E-01	# ZP(7,7)
7	8	1.95515124E-13	# ZP(7,8)
8	1	-4.07065361E-13	# ZP(8,1)
8	2	-4.39348341E-13	# ZP(8,2)
8	3	-5.15240692E-07	# ZP(8,3)
8	4	-2.99035082E-13	# ZP(8,4)
8	5	-1.94980657E-19	# ZP(8,5)
8	6	1.00000000E+00	# ZP(8,6)
8	7	3.23122249E-09	# ZP(8,7)
8	8	4.20076507E-16	# 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	4.33596267E-07	# Real(UV(4,1), dp)
4	2	-6.29777922E-07	# Real(UV(4,2), dp)
4	3	-3.59130548E-08	# Real(UV(4,3), dp)
4	4	1.10970215E-03	# Real(UV(4,4), dp)
4	5	-9.56964691E-04	# Real(UV(4,5), dp)
4	6	1.06082508E-03	# Real(UV(4,6), dp)
4	7	-2.12085679E-02	# Real(UV(4,7), dp)
4	8	8.09672678E-01	# Real(UV(4,8), dp)
4	9	-5.49504243E-01	# Real(UV(4,9), dp)
4	10	-2.04993087E-01	# Real(UV(4,10), dp)
5	1	-1.04308874E-07	# Real(UV(5,1), dp)
5	2	-6.26718162E-07	# Real(UV(5,2), dp)
5	3	1.10956147E-07	# Real(UV(5,3), dp)
5	4	-1.18865209E-03	# Real(UV(5,4), dp)
5	5	1.02439285E-03	# Real(UV(5,5), dp)
5	6	-1.28570300E-03	# Real(UV(5,6), dp)
5	7	2.26467137E-02	# Real(UV(5,7), dp)
5	8	-2.17239631E-01	# Real(UV(5,8), dp)
5	9	-6.06244650E-01	# Real(UV(5,9), dp)
5	10	7.64694304E-01	# Real(UV(5,10), dp)
6	1	6.50965700E-08	# Real(UV(6,1), dp)
6	2	1.12495521E-07	# Real(UV(6,2), dp)
6	3	1.09979295E-07	# Real(UV(6,3), dp)
6	4	-3.04397520E-02	# Real(UV(6,4), dp)

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6 5      2.60727093E-02 # Real(UV(6,5),dp)
6 6     -6.98891236E-02 # Real(UV(6,6),dp)
6 7      5.62417782E-01 # Real(UV(6,7),dp)
6 8     -4.35598258E-01 # Real(UV(6,8),dp)
6 9     -4.71797830E-01 # Real(UV(6,9),dp)
6 10    -5.14641962E-01 # Real(UV(6,10),dp)
7 1     -1.06855263E-07 # Real(UV(7,1),dp)
7 2     -2.20797611E-07 # Real(UV(7,2),dp)
7 3     -6.90035009E-08 # Real(UV(7,3),dp)
7 4      4.56123513E-02 # Real(UV(7,4),dp)
7 5     -3.67410695E-02 # Real(UV(7,5),dp)
7 6      7.15558311E-01 # Real(UV(7,6),dp)
7 7     -5.42969361E-01 # Real(UV(7,7),dp)
7 8     -2.49984319E-01 # Real(UV(7,8),dp)
7 9     -2.51473543E-01 # Real(UV(7,9),dp)
7 10    -2.52980398E-01 # Real(UV(7,10),dp)
8 1     -0.00000000E+00 # Real(UV(8,1),dp)
8 2     -0.00000000E+00 # Real(UV(8,2),dp)
8 3     -0.00000000E+00 # Real(UV(8,3),dp)
8 4     -0.00000000E+00 # Real(UV(8,4),dp)
8 5      0.00000000E+00 # Real(UV(8,5),dp)
8 6      0.00000000E+00 # Real(UV(8,6),dp)
8 7      0.00000000E+00 # Real(UV(8,7),dp)
8 8      0.00000000E+00 # Real(UV(8,8),dp)
8 9      0.00000000E+00 # Real(UV(8,9),dp)
8 10     0.00000000E+00 # Real(UV(8,10),dp)
9 1      2.75396407E-08 # Real(UV(9,1),dp)
9 2      7.48517711E-08 # Real(UV(9,2),dp)
9 3      1.06906788E-07 # Real(UV(9,3),dp)
9 4     -9.98376323E-01 # Real(UV(9,4),dp)
9 5     -4.90603065E-03 # Real(UV(9,5),dp)
9 6      2.42337748E-02 # Real(UV(9,6),dp)
9 7     -5.13151580E-02 # Real(UV(9,7),dp)
9 8     -2.04694837E-04 # Real(UV(9,8),dp)
9 9     -2.05185330E-04 # Real(UV(9,9),dp)
9 10    -2.05676449E-04 # Real(UV(9,10),dp)
10 1    -2.72849279E-08 # Real(UV(10,1),dp)
10 2    -7.34383624E-08 # Real(UV(10,2),dp)
10 3    -1.02538320E-07 # Real(UV(10,3),dp)
10 4     2.17600942E-03 # Real(UV(10,4),dp)
10 5    -9.98832665E-01 # Real(UV(10,5),dp)
10 6    -1.66836534E-02 # Real(UV(10,6),dp)
10 7     4.52750041E-02 # Real(UV(10,7),dp)
10 8     3.65769121E-04 # Real(UV(10,8),dp)
10 9     3.66318893E-04 # Real(UV(10,9),dp)
10 10    3.66867778E-04 # Real(UV(10,10),dp)
Block IMUVMIX # ( )
1 1     -8.31843025E-01 # Aimag(UV(1,1))
1 2     -2.57019163E-01 # Aimag(UV(1,2))
1 3      4.91912930E-01 # Aimag(UV(1,3))
1 4      6.74439048E-09 # Aimag(UV(1,4))
1 5     -6.30550795E-09 # Aimag(UV(1,5))
1 6     -1.58457290E-07 # Aimag(UV(1,6))
1 7     -1.96821824E-09 # Aimag(UV(1,7))
1 8      2.32853125E-07 # Aimag(UV(1,8))
1 9      5.54585558E-08 # Aimag(UV(1,9))
1 10    -2.85560189E-07 # Aimag(UV(1,10))
2 1      5.54130466E-01 # Aimag(UV(2,1))
2 2     -3.34700635E-01 # Aimag(UV(2,2))
2 3      7.62177743E-01 # Aimag(UV(2,3))
2 4      7.54647687E-08 # Aimag(UV(2,4))
2 5     -7.13031194E-08 # Aimag(UV(2,5))
2 6      4.36262667E-08 # Aimag(UV(2,6))
2 7     -4.41291568E-08 # Aimag(UV(2,7))
2 8     -2.61060899E-07 # Aimag(UV(2,8))
2 9      4.09717833E-07 # Aimag(UV(2,9))
2 10    -5.70631444E-08 # Aimag(UV(2,10))
3 1      3.12507157E-02 # Aimag(UV(3,1))
3 2     -9.06596181E-01 # Aimag(UV(3,2))
3 3     -4.20840537E-01 # Aimag(UV(3,3))
3 4     -1.23943984E-07 # Aimag(UV(3,4))
3 5      1.17167148E-07 # Aimag(UV(3,5))
3 6     -3.00224662E-07 # Aimag(UV(3,6))

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3 7 7.66844651E-08 # Aimag(UV(3,7))  
3 8 -4.20823223E-07 # Aimag(UV(3,8))  
3 9 5.90942897E-07 # Aimag(UV(3,9))  
3 10 -3.31870177E-07 # 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 0.00000000E+00 # Aimag(UV(5,1))  
5 2 0.00000000E+00 # Aimag(UV(5,2))  
5 3 0.00000000E+00 # Aimag(UV(5,3))  
5 4 0.00000000E+00 # Aimag(UV(5,4))  
5 5 0.00000000E+00 # Aimag(UV(5,5))  
5 6 0.00000000E+00 # Aimag(UV(5,6))  
5 7 0.00000000E+00 # Aimag(UV(5,7))  
5 8 0.00000000E+00 # Aimag(UV(5,8))  
5 9 0.00000000E+00 # Aimag(UV(5,9))  
5 10 0.00000000E+00 # 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 -9.69293343E-08 # Aimag(UV(8,1))  
8 2 -1.95310939E-07 # Aimag(UV(8,2))  
8 3 -4.13419690E-08 # Aimag(UV(8,3))  
8 4 -1.51747250E-02 # Aimag(UV(8,4))  
8 5 1.66607687E-02 # Aimag(UV(8,5))  
8 6 6.94423081E-01 # Aimag(UV(8,6))  
8 7 6.19051503E-01 # Aimag(UV(8,7))  
8 8 2.12129488E-01 # Aimag(UV(8,8))  
8 9 2.11376915E-01 # Aimag(UV(8,9))  
8 10 2.10629646E-01 # 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      1.35847656E-06 # Real(ZER(1,2),dp)
 1 3      5.90863119E-09 # Real(ZER(1,3),dp)
 1 4     -4.21358786E-08 # Real(ZER(1,4),dp)
 1 5      1.54438560E-07 # Real(ZER(1,5),dp)
 2 1      1.35847662E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.57906409E-08 # Real(ZER(2,3),dp)
 2 4      1.11135677E-07 # Real(ZER(2,4),dp)
 2 5     -3.19079817E-07 # Real(ZER(2,5),dp)
 3 1     -5.90863294E-09 # Real(ZER(3,1),dp)
 3 2     -1.57907004E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.47230986E-07 # Real(ZER(3,4),dp)
 3 5      1.08645088E-07 # Real(ZER(3,5),dp)
 4 1      1.55387043E-07 # Real(ZER(4,1),dp)
 4 2      3.21607307E-07 # Real(ZER(4,2),dp)
 4 3      1.12080199E-07 # Real(ZER(4,3),dp)
 4 4      2.35358047E-02 # Real(ZER(4,4),dp)
 4 5     -9.99722995E-01 # Real(ZER(4,5),dp)
 5 1      3.84892294E-08 # Real(ZER(5,1),dp)
 5 2      1.03595141E-07 # Real(ZER(5,2),dp)
 5 3      1.44633154E-07 # Real(ZER(5,3),dp)
 5 4      9.99722995E-01 # Real(ZER(5,4),dp)
 5 5      2.35358047E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      8.46398121E-14 # Real(ZEL(1,2),dp)
 1 3      6.76149501E-15 # Real(ZEL(1,3),dp)
 1 4     -3.70508991E-13 # Real(ZEL(1,4),dp)
 1 5      5.86927039E-12 # Real(ZEL(1,5),dp)
 2 1      8.46387464E-14 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -3.78318479E-12 # Real(ZEL(2,3),dp)
 2 4      2.06515354E-10 # Real(ZEL(2,4),dp)
 2 5     -3.27233182E-09 # Real(ZEL(2,5),dp)
 3 1     -6.76192071E-15 # Real(ZEL(3,1),dp)
 3 2     -3.78341307E-12 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -4.65303672E-09 # Real(ZEL(3,4),dp)
 3 5      7.37120392E-08 # Real(ZEL(3,5),dp)
 4 1      5.88095045E-12 # Real(ZEL(4,1),dp)
 4 2      3.27884024E-09 # Real(ZEL(4,2),dp)
 4 3      7.38587175E-08 # Real(ZEL(4,3),dp)
 4 4      6.39850738E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97950856E-01 # Real(ZEL(4,5),dp)
 5 1     -5.79593422E-15 # Real(ZEL(5,1),dp)
 5 2     -3.28821892E-12 # Real(ZEL(5,2),dp)
 5 3     -7.29683003E-11 # Real(ZEL(5,3),dp)
 5 4      9.97950856E-01 # Real(ZEL(5,4),dp)
 5 5      6.39850738E-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)

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Block UURMIX # ( )
 1 1 1.00000000E+00 # Real(ZUR(1,1),dp)
 1 2 0.00000000E+00 # 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)

```

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DECAY 25 9.53800974E-07 # hh_1

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```

# BR ID1 ID2
3.06105279E-03 2 22 22 # BR(hh_1 -> VP VP )
8.88896287E-02 2 21 21 # BR(hh_1 -> VG VG )
1.61255690E-04 2 23 23 # BR(hh_1 -> VZ VZ )
8.66458846E-03 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
8.98240150E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
2.62898132E-26 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
2.96238654E-23 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
2.62898132E-26 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
4.01261224E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
1.58520277E-21 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
2.96238654E-23 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
1.58520277E-21 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
1.15757496E-01 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
4.89903119E-22 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
1.00913390E-21 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
4.01146439E-20 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
4.87603996E-09 2 12 1000022 # BR(hh_1 -> Chi_1 Chi_4 )
1.32908197E-11 2 12 1000023 # BR(hh_1 -> Chi_1 Chi_5 )
5.60084947E-09 2 12 1000025 # BR(hh_1 -> Chi_1 Chi_6 )
6.23010053E-24 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
3.07084143E-20 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
8.66322538E-10 2 14 1000022 # BR(hh_1 -> Chi_2 Chi_4 )
5.96523196E-09 2 14 1000023 # BR(hh_1 -> Chi_2 Chi_5 )
1.31858695E-08 2 14 1000025 # BR(hh_1 -> Chi_2 Chi_6 )
9.88253902E-20 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
3.64083165E-09 2 16 1000022 # BR(hh_1 -> Chi_3 Chi_4 )
1.70210920E-08 2 16 1000023 # BR(hh_1 -> Chi_3 Chi_5 )
3.77853359E-08 2 16 1000025 # BR(hh_1 -> Chi_3 Chi_6 )
7.88824894E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
2.83733069E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
7.57983826E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
1.04411952E-07 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
1.44038531E-30 2 -2 4 # BR(hh_1 -> Fu_1^* Fu_2 )
1.45212562E-30 2 -4 2 # BR(hh_1 -> Fu_2^* Fu_1 )
2.47961661E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )

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DECAY 35 1.34937476E-06 # hh_2

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```

# BR ID1 ID2
2.65202349E-03 2 22 22 # BR(hh_2 -> VP VP )
7.51177003E-02 2 21 21 # BR(hh_2 -> VG VG )
1.75761147E-04 2 23 23 # BR(hh_2 -> VZ VZ )
8.14587119E-03 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
9.17720453E-09 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
2.89933596E-25 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
5.00256222E-22 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
2.89933596E-25 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
4.09963489E-04 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
1.12349077E-21 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
5.00256222E-22 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
1.12349077E-21 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
1.18271079E-01 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
4.91441967E-23 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )

```

4.00456193E-20	2		12	14	# BR(hh_2 -> Chi_1 Chi_2 )
1.18069208E-19	2		12	16	# BR(hh_2 -> Chi_1 Chi_3 )
6.48500462E-12	2		12	1000022	# BR(hh_2 -> Chi_1 Chi_4 )
1.60655914E-09	2		12	1000023	# BR(hh_2 -> Chi_1 Chi_5 )
1.25322811E-08	2		12	1000025	# BR(hh_2 -> Chi_1 Chi_6 )
1.68271582E-19	2		14	14	# BR(hh_2 -> Chi_2 Chi_2 )
1.32711748E-19	2		14	16	# BR(hh_2 -> Chi_2 Chi_3 )
4.84085566E-09	2		14	1000022	# BR(hh_2 -> Chi_2 Chi_4 )
2.01250448E-09	2		14	1000023	# BR(hh_2 -> Chi_2 Chi_5 )
1.25792000E-08	2		14	1000025	# BR(hh_2 -> Chi_2 Chi_6 )
2.40132035E-20	2		16	16	# BR(hh_2 -> Chi_3 Chi_3 )
1.43176718E-08	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4 )
1.46879106E-10	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5 )
1.60585645E-08	2		16	1000025	# BR(hh_2 -> Chi_3 Chi_6 )
8.05932288E-07	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1 )
2.89886443E-04	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2 )
7.74488256E-01	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3 )
8.61042443E-08	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1 )
1.18988929E-30	2		-2	4	# BR(hh_2 -> Fu_1^* Fu_2 )
1.19058751E-30	2		-4	2	# BR(hh_2 -> Fu_2^* Fu_1 )
2.04484936E-02	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2 )
DECAY	1000012	3.60994449E-04	# hh_3		
#	BR	NDA	ID1	ID2	
1.09521692E-03	2		22	22	# BR(hh_3 -> VP VP )
2.54224520E-02	2		21	21	# BR(hh_3 -> VG VG )
1.48087854E-04	2		23	23	# BR(hh_3 -> VZ VZ )
3.89022474E-03	2		24	-24	# BR(hh_3 -> Vwm^* Vwm_virt )
9.89326381E-09	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1 )
2.20346286E-25	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3 )
4.41951438E-04	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2 )
1.19431374E-24	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3 )
2.20346286E-25	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1 )
1.19431374E-24	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2 )
1.27515175E-01	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3 )
5.68147463E-24	2		12	12	# BR(hh_3 -> Chi_1 Chi_1 )
2.13754031E-23	2		12	14	# BR(hh_3 -> Chi_1 Chi_2 )
6.24982851E-23	2		12	16	# BR(hh_3 -> Chi_1 Chi_3 )
1.06029561E-11	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4 )
2.62915940E-11	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5 )
2.72910488E-12	2		12	1000025	# BR(hh_3 -> Chi_1 Chi_6 )
3.80004823E-23	2		14	14	# BR(hh_3 -> Chi_2 Chi_2 )
9.23829361E-22	2		14	16	# BR(hh_3 -> Chi_2 Chi_3 )
4.18499471E-11	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4 )
1.51841973E-11	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5 )
3.27633646E-13	2		14	1000025	# BR(hh_3 -> Chi_2 Chi_6 )
3.22307290E-23	2		16	16	# BR(hh_3 -> Chi_3 Chi_3 )
7.97076057E-11	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4 )
7.92171731E-11	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5 )
2.84027550E-12	2		16	1000025	# BR(hh_3 -> Chi_3 Chi_6 )
8.68815848E-07	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1 )
3.12505091E-04	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2 )
8.35251462E-01	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3 )
2.49357119E-08	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1 )
5.92202104E-03	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2 )
DECAY	1000014	3.67211201E-03	# hh_4		
#	BR	NDA	ID1	ID2	
2.38583511E-03	2		22	22	# BR(hh_4 -> VP VP )
1.00628965E-01	2		21	21	# BR(hh_4 -> VG VG )
2.49018466E-02	2		23	23	# BR(hh_4 -> VZ VZ )
2.28128556E-01	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt )
6.10563175E-09	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1 )
7.16311086E-29	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2 )
4.59256094E-24	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3 )
7.16311086E-29	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1 )
2.72750927E-04	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2 )
2.06236928E-23	2		-13	15	# BR(hh_4 -> Cha_2^* Cha_3 )
4.59256094E-24	2		-15	11	# BR(hh_4 -> Cha_3^* Cha_1 )
2.06236928E-23	2		-15	13	# BR(hh_4 -> Cha_3^* Cha_2 )
7.87302861E-02	2		-15	15	# BR(hh_4 -> Cha_3^* Cha_3 )
1.04479335E-23	2		12	12	# BR(hh_4 -> Chi_1 Chi_1 )
1.84377068E-22	2		12	14	# BR(hh_4 -> Chi_1 Chi_2 )
4.22758838E-22	2		12	16	# BR(hh_4 -> Chi_1 Chi_3 )
2.26752738E-12	2		12	1000022	# BR(hh_4 -> Chi_1 Chi_4 )

4.39961126E-12	2		12	1000023	# BR(hh_4 -> Chi_1 Chi_5 )
8.43129393E-12	2		12	1000025	# BR(hh_4 -> Chi_1 Chi_6 )
1.06044064E-21	2		14	14	# BR(hh_4 -> Chi_2 Chi_2 )
1.85175873E-21	2		14	16	# BR(hh_4 -> Chi_2 Chi_3 )
6.03386744E-12	2		14	1000022	# BR(hh_4 -> Chi_2 Chi_4 )
3.14368448E-12	2		14	1000023	# BR(hh_4 -> Chi_2 Chi_5 )
3.49928306E-11	2		14	1000025	# BR(hh_4 -> Chi_2 Chi_6 )
1.82434353E-21	2		16	16	# BR(hh_4 -> Chi_3 Chi_3 )
1.57206106E-11	2		16	1000022	# BR(hh_4 -> Chi_3 Chi_4 )
1.01143062E-11	2		16	1000023	# BR(hh_4 -> Chi_3 Chi_5 )
2.28604094E-11	2		16	1000025	# BR(hh_4 -> Chi_3 Chi_6 )
1.86431587E-02	2	1000022		1000022	# BR(hh_4 -> Chi_4 Chi_4 )
1.21913548E-06	2	1000022		1000023	# BR(hh_4 -> Chi_4 Chi_5 )
8.82311221E-03	2	1000023		1000023	# BR(hh_4 -> Chi_5 Chi_5 )
5.36190050E-07	2		-1	1	# BR(hh_4 -> Fd_1^* Fd_1 )
1.92862657E-04	2		-3	3	# BR(hh_4 -> Fd_2^* Fd_2 )
5.16178107E-01	2		-5	5	# BR(hh_4 -> Fd_3^* Fd_3 )
8.88906939E-08	2		-2	2	# BR(hh_4 -> Fu_1^* Fu_1 )
1.24258383E-30	2		-2	4	# BR(hh_4 -> Fu_1^* Fu_2 )
1.23163970E-30	2		-4	2	# BR(hh_4 -> Fu_2^* Fu_1 )
2.11126695E-02	2		-4	4	# BR(hh_4 -> Fu_2^* Fu_2 )
DECAY	1000016	5.65678513E-04	#	hh_5	
#	BR	NDA	ID1	ID2	
7.14864518E-12	2		22	22	# BR(hh_5 -> VP VP )
3.68099145E-10	2		21	21	# BR(hh_5 -> VG VG )
2.48179567E-10	2		23	23	# BR(hh_5 -> VZ VZ )
1.89152205E-09	2		24	-24	# BR(hh_5 -> Vwm^* Vwm_virt )
2.06193160E-17	2		-11	11	# BR(hh_5 -> Cha_1^* Cha_1 )
9.18366272E-14	2		-11	15	# BR(hh_5 -> Cha_1^* Cha_3 )
9.21107277E-13	2		-13	13	# BR(hh_5 -> Cha_2^* Cha_2 )
4.00912473E-13	2		-13	15	# BR(hh_5 -> Cha_2^* Cha_3 )
9.18366272E-14	2		-15	11	# BR(hh_5 -> Cha_3^* Cha_1 )
4.00912473E-13	2		-15	13	# BR(hh_5 -> Cha_3^* Cha_2 )
2.83169575E-10	2		-15	15	# BR(hh_5 -> Cha_3^* Cha_3 )
5.08737647E-14	2		12	12	# BR(hh_5 -> Chi_1 Chi_1 )
4.17675252E-12	2		12	14	# BR(hh_5 -> Chi_1 Chi_2 )
9.53651555E-12	2		12	16	# BR(hh_5 -> Chi_1 Chi_3 )
4.18525779E-04	2		12	1000022	# BR(hh_5 -> Chi_1 Chi_4 )
4.70163072E-04	2		12	1000023	# BR(hh_5 -> Chi_1 Chi_5 )
2.41089641E-01	2		12	1000025	# BR(hh_5 -> Chi_1 Chi_6 )
1.54976701E-11	2		14	14	# BR(hh_5 -> Chi_2 Chi_2 )
3.73369659E-11	2		14	16	# BR(hh_5 -> Chi_2 Chi_3 )
1.00475059E-03	2		14	1000022	# BR(hh_5 -> Chi_2 Chi_4 )
1.12871570E-03	2		14	1000023	# BR(hh_5 -> Chi_2 Chi_5 )
5.78781442E-01	2		14	1000025	# BR(hh_5 -> Chi_2 Chi_6 )
1.27534251E-11	2		16	16	# BR(hh_5 -> Chi_3 Chi_3 )
3.06323885E-04	2		16	1000022	# BR(hh_5 -> Chi_3 Chi_4 )
3.44117835E-04	2		16	1000023	# BR(hh_5 -> Chi_3 Chi_5 )
1.76456315E-01	2		16	1000025	# BR(hh_5 -> Chi_3 Chi_6 )
9.72289070E-11	2	1000022		1000022	# BR(hh_5 -> Chi_4 Chi_4 )
1.13134107E-10	2	1000022		1000023	# BR(hh_5 -> Chi_4 Chi_5 )
3.29272308E-12	2	1000022		1000025	# BR(hh_5 -> Chi_4 Chi_6 )
1.08961959E-09	2	1000023		1000023	# BR(hh_5 -> Chi_5 Chi_5 )
8.13912400E-11	2	1000023		1000025	# BR(hh_5 -> Chi_5 Chi_6 )
1.81076627E-15	2		-1	1	# BR(hh_5 -> Fd_1^* Fd_1 )
6.51316088E-13	2		-3	3	# BR(hh_5 -> Fd_2^* Fd_2 )
1.74432363E-09	2		-5	5	# BR(hh_5 -> Fd_3^* Fd_3 )
2.60626923E-16	2		-2	2	# BR(hh_5 -> Fu_1^* Fu_1 )
6.19048247E-11	2		-4	4	# BR(hh_5 -> Fu_2^* Fu_2 )
DECAY	2000012	4.53565360E-03	#	hh_6	
#	BR	NDA	ID1	ID2	
2.04683586E-14	2		22	22	# BR(hh_6 -> VP VP )
1.03534582E-11	2		21	21	# BR(hh_6 -> VG VG )
2.20057865E-10	2		36	36	# BR(hh_6 -> Ah_2 Ah_2 )
9.85240925E-12	2		36	1000017	# BR(hh_6 -> Ah_2 Ah_3 )
4.55473554E-12	2		36	1000018	# BR(hh_6 -> Ah_2 Ah_4 )
4.33544286E-22	2		36	1000019	# BR(hh_6 -> Ah_2 Ah_5 )
1.64617078E-11	2	1000017		1000017	# BR(hh_6 -> Ah_3 Ah_3 )
4.13840472E-12	2	1000017		1000018	# BR(hh_6 -> Ah_3 Ah_4 )
2.46929114E-21	2	1000017		1000019	# BR(hh_6 -> Ah_3 Ah_5 )
1.43956720E-11	2	1000018		1000018	# BR(hh_6 -> Ah_4 Ah_4 )
3.32077790E-20	2	1000018		1000019	# BR(hh_6 -> Ah_4 Ah_5 )
3.67059546E-11	2	1000019		1000019	# BR(hh_6 -> Ah_5 Ah_5 )

1.23133276E-09	2	36	23	# BR(hh_6 -> Ah_2 VZ )
1.49662576E-09	2	1000017	23	# BR(hh_6 -> Ah_3 VZ )
1.30113436E-09	2	1000018	23	# BR(hh_6 -> Ah_4 VZ )
9.10773504E-21	2	1000019	23	# BR(hh_6 -> Ah_5 VZ )
1.02150753E-19	2	-11	11	# BR(hh_6 -> Cha_1^* Cha_1 )
8.40336667E-17	2	-11	13	# BR(hh_6 -> Cha_1^* Cha_2 )
4.82079156E-25	2	-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4 )
8.40336667E-17	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1 )
9.91944431E-15	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2 )
6.28266429E-15	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3 )
2.36448149E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4 )
6.28266429E-15	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2 )
1.31850297E-12	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3 )
6.38609234E-24	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4 )
4.82079156E-25	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1 )
2.36448149E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2 )
6.38609234E-24	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3 )
3.67147098E-15	2	12	12	# BR(hh_6 -> Chi_1 Chi_1 )
2.89912340E-13	2	12	14	# BR(hh_6 -> Chi_1 Chi_2 )
4.11923250E-13	2	12	16	# BR(hh_6 -> Chi_1 Chi_3 )
4.13945548E-05	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4 )
4.72744336E-05	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5 )
2.94790018E-02	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6 )
4.96967416E-03	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7 )
2.82518648E-04	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8 )
7.90057406E-13	2	14	14	# BR(hh_6 -> Chi_2 Chi_2 )
4.48681346E-13	2	14	16	# BR(hh_6 -> Chi_2 Chi_3 )
7.01980868E-05	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4 )
8.01693558E-05	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5 )
4.99913466E-02	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6 )
8.42771763E-03	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7 )
4.79103320E-04	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8 )
1.56462824E-11	2	16	16	# BR(hh_6 -> Chi_3 Chi_3 )
5.15038832E-04	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4 )
5.88197390E-04	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5 )
3.66783283E-01	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6 )
6.18336203E-02	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7 )
3.51515014E-03	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8 )
3.47407846E-11	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4 )
9.63560732E-11	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5 )
1.17861092E-10	2	1000022	1000025	# BR(hh_6 -> Chi_4 Chi_6 )
6.08392384E-11	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5 )
1.76926711E-10	2	1000023	1000025	# BR(hh_6 -> Chi_5 Chi_6 )
3.18824837E-10	2	1000025	1000025	# BR(hh_6 -> Chi_6 Chi_6 )
8.97076980E-18	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1 )
3.22670398E-15	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2 )
8.66014419E-12	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3 )
8.61817160E-19	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1 )
2.04728605E-13	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2 )
2.03398491E-13	2	25	25	# BR(hh_6 -> hh_1 hh_1 )
1.15843582E-11	2	25	35	# BR(hh_6 -> hh_1 hh_2 )
1.38263162E-11	2	25	1000012	# BR(hh_6 -> hh_1 hh_3 )
1.36778249E-09	2	25	1000014	# BR(hh_6 -> hh_1 hh_4 )
5.37639697E-19	2	25	1000016	# BR(hh_6 -> hh_1 hh_5 )
8.66015935E-13	2	35	35	# BR(hh_6 -> hh_2 hh_2 )
1.49150922E-11	2	35	1000012	# BR(hh_6 -> hh_2 hh_3 )
1.92199217E-09	2	35	1000014	# BR(hh_6 -> hh_2 hh_4 )
6.14164421E-19	2	35	1000016	# BR(hh_6 -> hh_2 hh_5 )
2.73638731E-14	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3 )
1.39808980E-09	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4 )
6.38272671E-19	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5 )
1.90643827E-09	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4 )
1.84524615E-18	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5 )
3.67059544E-11	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5 )
6.56480069E-23	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^* )
6.56480069E-23	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm )
4.79593488E-10	2	-24	24	# BR(hh_6 -> Vwm Vwm^* )
2.12743992E-10	2	23	23	# BR(hh_6 -> VZ VZ )
DECAY	2000014	1.87984467E-02	# hh_7	
#	BR	NDA	ID1	ID2
3.04436690E-15	2	22	22	# BR(hh_7 -> VP VP )
1.18648796E-12	2	21	21	# BR(hh_7 -> VG VG )
4.40012393E-12	2	36	36	# BR(hh_7 -> Ah_2 Ah_2 )



2.52324786E-13	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3 )
7.21190004E-15	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4 )
3.96393049E-22	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5 )
6.06998214E-23	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6 )
5.75591410E-13	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3 )
2.16973488E-14	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4 )
2.69031197E-21	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5 )
1.73119284E-21	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6 )
1.47933465E-13	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4 )
8.85448213E-22	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5 )
1.23669628E-23	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6 )
1.47116737E-12	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5 )
2.66437443E-10	2	36	23	# BR(hh_7 -> Ah_2 VZ )
5.49170512E-10	2	1000017	23	# BR(hh_7 -> Ah_3 VZ )
4.10883900E-11	2	1000018	23	# BR(hh_7 -> Ah_4 VZ )
1.11538947E-21	2	1000019	23	# BR(hh_7 -> Ah_5 VZ )
7.92333574E-23	2	2000018	23	# BR(hh_7 -> Ah_6 VZ )
1.33799587E-20	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1 )
4.81839107E-18	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2 )
2.44407818E-15	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3 )
2.81446870E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4 )
4.81839107E-18	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1 )
2.29823731E-16	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2 )
4.87215249E-25	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4 )
2.44407818E-15	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1 )
6.64135193E-14	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3 )
1.17779411E-24	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4 )
2.81446870E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1 )
4.87215249E-25	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2 )
1.17779411E-24	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3 )
4.12375587E-12	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4 )
1.50610552E-14	2	12	12	# BR(hh_7 -> Chi_1 Chi_1 )
8.45893208E-13	2	12	14	# BR(hh_7 -> Chi_1 Chi_2 )
2.58976942E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3 )
1.78716870E-04	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4 )
2.04598362E-04	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5 )
1.31088818E-01	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6 )
1.49244084E-01	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7 )
2.17450618E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8 )
8.48072901E-13	2	14	14	# BR(hh_7 -> Chi_2 Chi_2 )
1.06733726E-12	2	14	16	# BR(hh_7 -> Chi_2 Chi_3 )
7.93061465E-05	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4 )
9.07911358E-05	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5 )
5.81710556E-02	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6 )
6.62275093E-02	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7 )
9.64943631E-03	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8 )
7.28059516E-15	2	16	16	# BR(hh_7 -> Chi_3 Chi_3 )
2.52233477E-07	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4 )
2.88761522E-07	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5 )
1.85013246E-04	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6 )
2.10636826E-04	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7 )
3.06900660E-05	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8 )
9.95533164E-12	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4 )
1.79434452E-12	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5 )
2.19406967E-11	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6 )
1.64430270E-13	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7 )
9.53604142E-13	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8 )
2.43275410E-14	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5 )
1.86349258E-12	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6 )
1.48535033E-15	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7 )
1.60830409E-13	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8 )
2.35049497E-11	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6 )
4.14426264E-12	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7 )
2.22794501E-11	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8 )
4.51799415E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1 )
1.62508117E-16	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2 )
4.36291713E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3 )
3.03782087E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1 )
7.21660950E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2 )
2.30843777E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3 )
1.73118297E-13	2	25	25	# BR(hh_7 -> hh_1 hh_1 )
1.38499696E-13	2	25	35	# BR(hh_7 -> hh_1 hh_2 )
1.52725475E-11	2	25	1000012	# BR(hh_7 -> hh_1 hh_3 )

6.34736732E-10	2		25	1000014	# BR(hh_7 -> hh_1 hh_4 )
2.54620344E-19	2		25	1000016	# BR(hh_7 -> hh_1 hh_5 )
1.25824201E-21	2		25	2000012	# BR(hh_7 -> hh_1 hh_6 )
2.88146787E-13	2		35	35	# BR(hh_7 -> hh_2 hh_2 )
1.33491470E-12	2		35	1000012	# BR(hh_7 -> hh_2 hh_3 )
4.64716113E-11	2		35	1000014	# BR(hh_7 -> hh_2 hh_4 )
1.63155321E-20	2		35	1000016	# BR(hh_7 -> hh_2 hh_5 )
5.64469869E-22	2		35	2000012	# BR(hh_7 -> hh_2 hh_6 )
4.15332472E-12	2	1000012	1000012	1000012	# BR(hh_7 -> hh_3 hh_3 )
1.94526026E-10	2	1000012	1000014	1000014	# BR(hh_7 -> hh_3 hh_4 )
8.76492134E-20	2	1000012	1000016	1000016	# BR(hh_7 -> hh_3 hh_5 )
1.33847831E-21	2	1000012	2000012	2000012	# BR(hh_7 -> hh_3 hh_6 )
8.99434584E-11	2	1000014	1000014	1000014	# BR(hh_7 -> hh_4 hh_4 )
8.30079624E-20	2	1000014	1000016	1000016	# BR(hh_7 -> hh_4 hh_5 )
6.10824383E-22	2	1000014	2000012	2000012	# BR(hh_7 -> hh_4 hh_6 )
1.47116736E-12	2	1000016	1000016	1000016	# BR(hh_7 -> hh_5 hh_5 )
8.31237309E-13	2	-37	37	37	# BR(hh_7 -> Hpm_2^* Hpm_2 )
1.99050849E-24	2	37	24	24	# BR(hh_7 -> Hpm_2 VWm^* )
1.99050849E-24	2	-37	-24	-24	# BR(hh_7 -> Hpm_2^* VWm )
1.00693041E-24	2	1000011	24	24	# BR(hh_7 -> Hpm_3 VWm^* )
1.00693041E-24	2	-1000011	-24	-24	# BR(hh_7 -> Hpm_3^* VWm )
1.00616377E-11	2	-24	24	24	# BR(hh_7 -> VWm VWm^* )
4.80333677E-12	2	23	23	23	# BR(hh_7 -> VZ VZ )
DECAY 2000016	2.53227361E+01	#	hh_8		
#	BR	NDA	ID1	ID2	
1.16327565E-06	2		22	22	# BR(hh_8 -> VP VP )
2.09222850E-04	2		21	21	# BR(hh_8 -> VG VG )
1.42453821E-03	2		36	36	# BR(hh_8 -> Ah_2 Ah_2 )
2.94925990E-07	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3 )
2.91400165E-07	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4 )
9.94405160E-13	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5 )
4.43411028E-13	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6 )
2.92024477E-14	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7 )
1.93642167E-04	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3 )
4.93164414E-12	2	1000017	1000018	1000018	# BR(hh_8 -> Ah_3 Ah_4 )
3.15886213E-16	2	1000017	1000019	1000019	# BR(hh_8 -> Ah_3 Ah_5 )
1.68604618E-15	2	1000017	2000018	2000018	# BR(hh_8 -> Ah_3 Ah_6 )
7.92618527E-15	2	1000017	2000019	2000019	# BR(hh_8 -> Ah_3 Ah_7 )
2.01850370E-04	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4 )
1.98482749E-16	2	1000018	1000019	1000019	# BR(hh_8 -> Ah_4 Ah_5 )
4.27619137E-15	2	1000018	2000018	2000018	# BR(hh_8 -> Ah_4 Ah_6 )
7.63392521E-16	2	1000018	2000019	2000019	# BR(hh_8 -> Ah_4 Ah_7 )
1.07974460E-04	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5 )
8.18220596E-24	2	1000019	2000018	2000018	# BR(hh_8 -> Ah_5 Ah_6 )
8.14255343E-25	2	1000019	2000019	2000019	# BR(hh_8 -> Ah_5 Ah_7 )
8.61948952E-05	2	2000018	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6 )
1.49627044E-25	2	2000018	2000019	2000019	# BR(hh_8 -> Ah_6 Ah_7 )
1.97947713E-01	2	36	23	23	# BR(hh_8 -> Ah_2 VZ )
7.99978121E-05	2	1000017	23	23	# BR(hh_8 -> Ah_3 VZ )
7.98085813E-05	2	1000018	23	23	# BR(hh_8 -> Ah_4 VZ )
1.26665722E-12	2	1000019	23	23	# BR(hh_8 -> Ah_5 VZ )
2.18191184E-13	2	2000018	23	23	# BR(hh_8 -> Ah_6 VZ )
1.32693704E-14	2	2000019	23	23	# BR(hh_8 -> Ah_7 VZ )
8.54818775E-11	2	-11	11	11	# BR(hh_8 -> Cha_1^* Cha_1 )
1.75994147E-30	2	-11	13	13	# BR(hh_8 -> Cha_1^* Cha_2 )
1.00532477E-27	2	-11	15	15	# BR(hh_8 -> Cha_1^* Cha_3 )
6.11854136E-18	2	-11	-1000024	-1000024	# BR(hh_8 -> Cha_1^* Cha_4 )
1.75994147E-30	2	-13	11	11	# BR(hh_8 -> Cha_2^* Cha_1 )
3.81866445E-06	2	-13	13	13	# BR(hh_8 -> Cha_2^* Cha_2 )
4.41741676E-27	2	-13	15	15	# BR(hh_8 -> Cha_2^* Cha_3 )
6.43903699E-18	2	-13	-1000024	-1000024	# BR(hh_8 -> Cha_2^* Cha_4 )
1.00532477E-27	2	-15	11	11	# BR(hh_8 -> Cha_3^* Cha_1 )
4.41741676E-27	2	-15	13	13	# BR(hh_8 -> Cha_3^* Cha_2 )
1.10356842E-03	2	-15	15	15	# BR(hh_8 -> Cha_3^* Cha_3 )
1.11127608E-16	2	-15	-1000024	-1000024	# BR(hh_8 -> Cha_3^* Cha_4 )
6.11854136E-18	2	1000024	11	11	# BR(hh_8 -> Cha_4^* Cha_1 )
6.43903699E-18	2	1000024	13	13	# BR(hh_8 -> Cha_4^* Cha_2 )
1.11127608E-16	2	1000024	15	15	# BR(hh_8 -> Cha_4^* Cha_3 )
1.45024004E-02	2	1000024	-1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4 )
1.58766020E-28	2	12	12	12	# BR(hh_8 -> Chi_1 Chi_1 )
3.52986395E-29	2	12	14	14	# BR(hh_8 -> Chi_1 Chi_2 )
8.08549326E-29	2	12	16	16	# BR(hh_8 -> Chi_1 Chi_3 )
8.69597939E-17	2	12	1000022	1000022	# BR(hh_8 -> Chi_1 Chi_4 )

1.74890416E-16	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5 )
1.93010963E-17	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6 )
6.04290067E-18	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7 )
2.36254174E-17	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8 )
2.49862396E-19	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9 )
3.27517157E-28	2	14	14	# BR(hh_8 -> Chi_2 Chi_2 )
3.09407892E-27	2	14	16	# BR(hh_8 -> Chi_2 Chi_3 )
2.54353271E-16	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4 )
1.47955446E-16	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5 )
2.64794456E-15	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6 )
3.39657236E-16	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7 )
1.33616624E-15	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8 )
3.28361430E-20	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9 )
7.90903043E-28	2	16	16	# BR(hh_8 -> Chi_3 Chi_3 )
8.05403448E-16	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4 )
3.58185295E-16	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5 )
7.38596643E-15	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6 )
1.11932617E-15	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7 )
3.50384201E-15	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8 )
7.00516889E-19	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9 )
4.44487564E-04	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4 )
1.14897944E-06	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5 )
6.91825123E-04	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6 )
5.25306571E-05	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7 )
4.19333773E-05	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8 )
4.62542886E-04	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5 )
7.87213259E-04	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6 )
5.91791251E-05	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7 )
4.74077516E-05	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8 )
2.10651328E-01	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6 )
3.16972144E-02	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7 )
2.63489580E-02	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8 )
9.61593535E-02	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7 )
8.93079780E-02	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8 )
4.02338565E-03	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8 )
7.50692702E-09	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1 )
2.70017294E-06	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2 )
7.25008740E-03	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3 )
5.87132916E-12	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1 )
1.39479365E-06	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2 )
9.27790644E-02	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3 )
2.80044929E-04	2	25	25	# BR(hh_8 -> hh_1 hh_1 )
3.55335238E-06	2	25	35	# BR(hh_8 -> hh_1 hh_2 )
4.80662970E-04	2	25	1000012	# BR(hh_8 -> hh_1 hh_3 )
8.26481180E-04	2	25	1000014	# BR(hh_8 -> hh_1 hh_4 )
2.31457412E-13	2	25	1000016	# BR(hh_8 -> hh_1 hh_5 )
2.55395183E-15	2	25	2000012	# BR(hh_8 -> hh_1 hh_6 )
1.45716065E-14	2	25	2000014	# BR(hh_8 -> hh_1 hh_7 )
2.86214484E-04	2	35	35	# BR(hh_8 -> hh_2 hh_2 )
5.97328761E-04	2	35	1000012	# BR(hh_8 -> hh_2 hh_3 )
1.07690124E-03	2	35	1000014	# BR(hh_8 -> hh_2 hh_4 )
1.62308373E-13	2	35	1000016	# BR(hh_8 -> hh_2 hh_5 )
2.67657530E-14	2	35	2000012	# BR(hh_8 -> hh_2 hh_6 )
1.72039445E-15	2	35	2000014	# BR(hh_8 -> hh_2 hh_7 )
3.10134568E-02	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3 )
1.86461744E-01	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4 )
7.05289411E-11	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5 )
6.49964970E-13	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6 )
5.23717926E-14	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7 )
1.46667095E-03	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4 )
5.97263512E-12	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5 )
3.37927665E-13	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6 )
3.77756503E-14	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7 )
1.07974459E-04	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5 )
1.83022265E-22	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6 )
1.82812336E-23	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7 )
8.61948952E-05	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6 )
2.69848601E-25	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7 )
6.33757977E-05	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2 )
2.76315319E-27	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3 )
4.87832735E-27	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4 )
2.76315319E-27	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2 )
5.11363302E-05	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3 )

3.18850769E-27	2	-1000011	2000011	# BR(hh_8 -> Hpm_3^* Hpm_4 )	
4.87832735E-27	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2 )	
3.18850769E-27	2	-2000011	1000011	# BR(hh_8 -> Hpm_4^* Hpm_3 )	
4.38798275E-16	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^* )	
4.38798275E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm )	
7.39972693E-17	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^* )	
7.39972693E-17	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm )	
4.99823586E-16	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^* )	
4.99823586E-16	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm )	
2.98459712E-04	2	-24	24	# BR(hh_8 -> Vwm Vwm^* )	
1.47579336E-04	2	23	23	# BR(hh_8 -> VZ VZ )	
DECAY	36	5.42452364E-04	# Ah_2		
#	BR	NDA	ID1	ID2	
3.15473030E-04	2		22	22	# BR(Ah_2 -> VP VP )
2.93987308E-03	2		21	21	# BR(Ah_2 -> VG VG )
1.02067172E-08	2		-11	11	# BR(Ah_2 -> Cha_1^* Cha_1 )
1.16111677E-29	2		-11	13	# BR(Ah_2 -> Cha_1^* Cha_2 )
6.96474924E-26	2		-11	15	# BR(Ah_2 -> Cha_1^* Cha_3 )
1.16111677E-29	2		-13	11	# BR(Ah_2 -> Cha_2^* Cha_1 )
4.55955402E-04	2		-13	13	# BR(Ah_2 -> Cha_2^* Cha_2 )
3.23774016E-25	2		-13	15	# BR(Ah_2 -> Cha_2^* Cha_3 )
6.96474924E-26	2		-15	11	# BR(Ah_2 -> Cha_3^* Cha_1 )
3.23774016E-25	2		-15	13	# BR(Ah_2 -> Cha_3^* Cha_2 )
1.31668558E-01	2		-15	15	# BR(Ah_2 -> Cha_3^* Cha_3 )
1.35153619E-24	2		12	12	# BR(Ah_2 -> Chi_1 Chi_1 )
5.29929102E-24	2		12	14	# BR(Ah_2 -> Chi_1 Chi_2 )
1.19013849E-23	2		12	16	# BR(Ah_2 -> Chi_1 Chi_3 )
3.00023037E-12	2		12	1000022	# BR(Ah_2 -> Chi_1 Chi_4 )
5.26170736E-12	2		12	1000023	# BR(Ah_2 -> Chi_1 Chi_5 )
5.82852843E-14	2		12	1000025	# BR(Ah_2 -> Chi_1 Chi_6 )
2.55860657E-23	2		14	14	# BR(Ah_2 -> Chi_2 Chi_2 )
4.18410487E-22	2		14	16	# BR(Ah_2 -> Chi_2 Chi_3 )
1.18731139E-11	2		14	1000022	# BR(Ah_2 -> Chi_2 Chi_4 )
3.10630257E-12	2		14	1000023	# BR(Ah_2 -> Chi_2 Chi_5 )
7.48966950E-14	2		14	1000025	# BR(Ah_2 -> Chi_2 Chi_6 )
8.69327435E-23	2		16	16	# BR(Ah_2 -> Chi_3 Chi_3 )
2.28190485E-11	2		16	1000022	# BR(Ah_2 -> Chi_3 Chi_4 )
1.59574121E-11	2		16	1000023	# BR(Ah_2 -> Chi_3 Chi_5 )
3.41362092E-14	2		16	1000025	# BR(Ah_2 -> Chi_3 Chi_6 )
8.96342990E-07	2		-1	1	# BR(Ah_2 -> Fd_1^* Fd_1 )
3.22406450E-04	2		-3	3	# BR(Ah_2 -> Fd_2^* Fd_2 )
8.64296591E-01	2		-5	5	# BR(Ah_2 -> Fd_3^* Fd_3 )
9.95121851E-13	2		-2	2	# BR(Ah_2 -> Fu_1^* Fu_1 )
2.36381092E-07	2		-4	4	# BR(Ah_2 -> Fu_2^* Fu_2 )
DECAY	1000017	2.29582135E-07	# Ah_3		
#	BR	NDA	ID1	ID2	
4.53823096E-04	2		22	22	# BR(Ah_3 -> VP VP )
6.24987426E-04	2		21	21	# BR(Ah_3 -> VG VG )
1.02230178E-08	2		-11	11	# BR(Ah_3 -> Cha_1^* Cha_1 )
5.53493977E-24	2		-11	13	# BR(Ah_3 -> Cha_1^* Cha_2 )
2.15078569E-21	2		-11	15	# BR(Ah_3 -> Cha_1^* Cha_3 )
5.53493977E-24	2		-13	11	# BR(Ah_3 -> Cha_2^* Cha_1 )
4.56683914E-04	2		-13	13	# BR(Ah_3 -> Cha_2^* Cha_2 )
1.07616651E-22	2		-13	15	# BR(Ah_3 -> Cha_2^* Cha_3 )
2.15078569E-21	2		-15	11	# BR(Ah_3 -> Cha_3^* Cha_1 )
1.07616651E-22	2		-15	13	# BR(Ah_3 -> Cha_3^* Cha_2 )
1.31905779E-01	2		-15	15	# BR(Ah_3 -> Cha_3^* Cha_3 )
1.30782440E-21	2		12	12	# BR(Ah_3 -> Chi_1 Chi_1 )
3.54375540E-21	2		12	14	# BR(Ah_3 -> Chi_1 Chi_2 )
1.60928224E-19	2		12	16	# BR(Ah_3 -> Chi_1 Chi_3 )
1.80993708E-08	2		12	1000022	# BR(Ah_3 -> Chi_1 Chi_4 )
4.05534837E-10	2		12	1000023	# BR(Ah_3 -> Chi_1 Chi_5 )
2.27914997E-08	2		12	1000025	# BR(Ah_3 -> Chi_1 Chi_6 )
6.63653334E-22	2		14	14	# BR(Ah_3 -> Chi_2 Chi_2 )
1.81314285E-19	2		14	16	# BR(Ah_3 -> Chi_2 Chi_3 )
9.64228681E-10	2		14	1000022	# BR(Ah_3 -> Chi_2 Chi_4 )
3.21490744E-08	2		14	1000023	# BR(Ah_3 -> Chi_2 Chi_5 )
6.67239433E-08	2		14	1000025	# BR(Ah_3 -> Chi_2 Chi_6 )
4.36922402E-19	2		16	16	# BR(Ah_3 -> Chi_3 Chi_3 )
6.59562694E-09	2		16	1000022	# BR(Ah_3 -> Chi_3 Chi_4 )
9.19990238E-08	2		16	1000023	# BR(Ah_3 -> Chi_3 Chi_5 )
1.79755535E-07	2		16	1000025	# BR(Ah_3 -> Chi_3 Chi_6 )
8.97774491E-07	2		-1	1	# BR(Ah_3 -> Fd_1^* Fd_1 )

	3.22921336E-04	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2 )
	8.66099715E-01	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3 )
	5.67310148E-10	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1 )
	1.34762581E-04	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2 )
DECAY	1000018	2.30011270E-07	# Ah_4		
#	BR	NDA	ID1	ID2	
	4.58515436E-04	2	22	22	# BR(Ah_4 -> VP VP )
	5.50805361E-04	2	21	21	# BR(Ah_4 -> VG VG )
	1.02236363E-08	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1 )
	4.24525946E-25	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2 )
	5.72491718E-21	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3 )
	4.24525946E-25	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1 )
	4.56711551E-04	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2 )
	3.45503443E-20	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3 )
	5.72491718E-21	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1 )
	3.45503443E-20	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2 )
	1.31914340E-01	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3 )
	1.41515623E-22	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1 )
	2.86589788E-19	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2 )
	8.54076609E-19	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3 )
	1.78092142E-10	2	12	1000022	# BR(Ah_4 -> Chi_1 Chi_4 )
	1.41854178E-08	2	12	1000023	# BR(Ah_4 -> Chi_1 Chi_5 )
	8.79465903E-08	2	12	1000025	# BR(Ah_4 -> Chi_1 Chi_6 )
	1.13778849E-18	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2 )
	1.17128957E-18	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3 )
	2.15866673E-08	2	14	1000022	# BR(Ah_4 -> Chi_2 Chi_4 )
	7.85830416E-09	2	14	1000023	# BR(Ah_4 -> Chi_2 Chi_5 )
	7.54232760E-08	2	14	1000025	# BR(Ah_4 -> Chi_2 Chi_6 )
	1.86911818E-19	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3 )
	6.91772304E-08	2	16	1000022	# BR(Ah_4 -> Chi_3 Chi_4 )
	2.80118086E-10	2	16	1000023	# BR(Ah_4 -> Chi_3 Chi_5 )
	9.22911515E-08	2	16	1000025	# BR(Ah_4 -> Chi_3 Chi_6 )
	8.97828808E-07	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1 )
	3.22940873E-04	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2 )
	8.66161002E-01	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3 )
	5.65813163E-10	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1 )
	1.34407057E-04	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2 )
DECAY	1000019	5.65678513E-04	# Ah_5		
#	BR	NDA	ID1	ID2	
	4.73625202E-14	2	22	22	# BR(Ah_5 -> VP VP )
	9.46746791E-12	2	21	21	# BR(Ah_5 -> VG VG )
	5.18890151E-19	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1 )
	9.18366273E-14	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3 )
	2.31799450E-14	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2 )
	4.00912473E-13	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3 )
	9.18366273E-14	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1 )
	4.00912473E-13	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2 )
	7.14777288E-12	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3 )
	5.08737648E-14	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1 )
	4.17675252E-12	2	12	14	# BR(Ah_5 -> Chi_1 Chi_2 )
	9.53651556E-12	2	12	16	# BR(Ah_5 -> Chi_1 Chi_3 )
	4.18525783E-04	2	12	1000022	# BR(Ah_5 -> Chi_1 Chi_4 )
	4.70163077E-04	2	12	1000023	# BR(Ah_5 -> Chi_1 Chi_5 )
	2.41089641E-01	2	12	1000025	# BR(Ah_5 -> Chi_1 Chi_6 )
	1.54976701E-11	2	14	14	# BR(Ah_5 -> Chi_2 Chi_2 )
	3.73369659E-11	2	14	16	# BR(Ah_5 -> Chi_2 Chi_3 )
	1.00475058E-03	2	14	1000022	# BR(Ah_5 -> Chi_2 Chi_4 )
	1.12871570E-03	2	14	1000023	# BR(Ah_5 -> Chi_2 Chi_5 )
	5.78781442E-01	2	14	1000025	# BR(Ah_5 -> Chi_2 Chi_6 )
	1.27534252E-11	2	16	16	# BR(Ah_5 -> Chi_3 Chi_3 )
	3.06323892E-04	2	16	1000022	# BR(Ah_5 -> Chi_3 Chi_4 )
	3.44117830E-04	2	16	1000023	# BR(Ah_5 -> Chi_3 Chi_5 )
	1.76456315E-01	2	16	1000025	# BR(Ah_5 -> Chi_3 Chi_6 )
	3.65849529E-11	2	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4 )
	4.79608631E-10	2	1000022	1000023	# BR(Ah_5 -> Chi_4 Chi_5 )
	1.41640601E-10	2	1000022	1000025	# BR(Ah_5 -> Chi_4 Chi_6 )
	2.18389916E-09	2	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5 )
	1.58671041E-09	2	1000023	1000025	# BR(Ah_5 -> Chi_5 Chi_6 )
	4.55683779E-17	2	-1	1	# BR(Ah_5 -> Fd_1^* Fd_1 )
	1.63905309E-14	2	-3	3	# BR(Ah_5 -> Fd_2^* Fd_2 )
	4.39849518E-11	2	-5	5	# BR(Ah_5 -> Fd_3^* Fd_3 )
	2.59586325E-18	2	-2	2	# BR(Ah_5 -> Fu_1^* Fu_1 )
	6.16657434E-13	2	-4	4	# BR(Ah_5 -> Fu_2^* Fu_2 )

DECAY	2000018	4.53565360E-03	#	Ah_6		
#	BR	NDA	ID1	ID2		
6.70155471E-14	2		22	22	# BR(Ah_6 -> VP VP )	
2.07687663E-11	2		21	21	# BR(Ah_6 -> VG VG )	
1.03350313E-11	2		25	36	# BR(Ah_6 -> hh_1 Ah_2 )	
1.04861492E-11	2		25	1000017	# BR(Ah_6 -> hh_1 Ah_3 )	
7.01331307E-12	2		25	1000018	# BR(Ah_6 -> hh_1 Ah_4 )	
4.96632910E-21	2		25	1000019	# BR(Ah_6 -> hh_1 Ah_5 )	
4.89088083E-12	2		35	36	# BR(Ah_6 -> hh_2 Ah_2 )	
2.32828483E-12	2		35	1000017	# BR(Ah_6 -> hh_2 Ah_3 )	
3.43747841E-12	2		35	1000018	# BR(Ah_6 -> hh_2 Ah_4 )	
2.99885444E-21	2		35	1000019	# BR(Ah_6 -> hh_2 Ah_5 )	
7.84058789E-12	2	1000012		36	# BR(Ah_6 -> hh_3 Ah_2 )	
2.52452171E-11	2	1000012		1000017	# BR(Ah_6 -> hh_3 Ah_3 )	
2.26914024E-11	2	1000012		1000018	# BR(Ah_6 -> hh_3 Ah_4 )	
8.46850960E-21	2	1000012		1000019	# BR(Ah_6 -> hh_3 Ah_5 )	
2.62041944E-09	2	1000014		36	# BR(Ah_6 -> hh_4 Ah_2 )	
2.19832319E-09	2	1000014		1000017	# BR(Ah_6 -> hh_4 Ah_3 )	
1.88571727E-09	2	1000014		1000018	# BR(Ah_6 -> hh_4 Ah_4 )	
9.33414954E-24	2	1000014		1000019	# BR(Ah_6 -> hh_4 Ah_5 )	
9.83437524E-19	2	1000016		36	# BR(Ah_6 -> hh_5 Ah_2 )	
8.18251815E-19	2	1000016		1000017	# BR(Ah_6 -> hh_5 Ah_3 )	
7.49476331E-19	2	1000016		1000018	# BR(Ah_6 -> hh_5 Ah_4 )	
6.34351834E-20	2	-11		11	# BR(Ah_6 -> Cha_1^* Cha_1 )	
8.40336668E-17	2	-11		13	# BR(Ah_6 -> Cha_1^* Cha_2 )	
5.58807381E-24	2	-11	-1000024		# BR(Ah_6 -> Cha_1^* Cha_4 )	
8.40336668E-17	2	-13		11	# BR(Ah_6 -> Cha_2^* Cha_1 )	
5.67908389E-15	2	-13		13	# BR(Ah_6 -> Cha_2^* Cha_2 )	
6.28266430E-15	2	-13		15	# BR(Ah_6 -> Cha_2^* Cha_3 )	
2.36448150E-01	2	-13	-1000024		# BR(Ah_6 -> Cha_2^* Cha_4 )	
6.28266430E-15	2	-15		13	# BR(Ah_6 -> Cha_3^* Cha_2 )	
8.18905154E-13	2	-15		15	# BR(Ah_6 -> Cha_3^* Cha_3 )	
3.43084572E-24	2	-15	-1000024		# BR(Ah_6 -> Cha_3^* Cha_4 )	
5.58807381E-24	2	1000024		11	# BR(Ah_6 -> Cha_4^* Cha_1 )	
2.36448150E-01	2	1000024		13	# BR(Ah_6 -> Cha_4^* Cha_2 )	
3.43084572E-24	2	1000024		15	# BR(Ah_6 -> Cha_4^* Cha_3 )	
3.67147099E-15	2		12	12	# BR(Ah_6 -> Chi_1 Chi_1 )	
2.89912341E-13	2		12	14	# BR(Ah_6 -> Chi_1 Chi_2 )	
4.11923250E-13	2		12	16	# BR(Ah_6 -> Chi_1 Chi_3 )	
4.13945548E-05	2		12	1000022	# BR(Ah_6 -> Chi_1 Chi_4 )	
4.72744336E-05	2		12	1000023	# BR(Ah_6 -> Chi_1 Chi_5 )	
2.94790019E-02	2		12	1000025	# BR(Ah_6 -> Chi_1 Chi_6 )	
4.96967417E-03	2		12	1000039	# BR(Ah_6 -> Chi_1 Chi_7 )	
2.82518648E-04	2		12	1000045	# BR(Ah_6 -> Chi_1 Chi_8 )	
7.90057407E-13	2		14	14	# BR(Ah_6 -> Chi_2 Chi_2 )	
4.48681347E-13	2		14	16	# BR(Ah_6 -> Chi_2 Chi_3 )	
7.01980869E-05	2		14	1000022	# BR(Ah_6 -> Chi_2 Chi_4 )	
8.01693559E-05	2		14	1000023	# BR(Ah_6 -> Chi_2 Chi_5 )	
4.99913466E-02	2		14	1000025	# BR(Ah_6 -> Chi_2 Chi_6 )	
8.42771764E-03	2		14	1000039	# BR(Ah_6 -> Chi_2 Chi_7 )	
4.79103320E-04	2		14	1000045	# BR(Ah_6 -> Chi_2 Chi_8 )	
1.56462824E-11	2		16	16	# BR(Ah_6 -> Chi_3 Chi_3 )	
5.15038833E-04	2		16	1000022	# BR(Ah_6 -> Chi_3 Chi_4 )	
5.88197391E-04	2		16	1000023	# BR(Ah_6 -> Chi_3 Chi_5 )	
3.66783284E-01	2		16	1000025	# BR(Ah_6 -> Chi_3 Chi_6 )	
6.18336204E-02	2		16	1000039	# BR(Ah_6 -> Chi_3 Chi_7 )	
3.51515014E-03	2		16	1000045	# BR(Ah_6 -> Chi_3 Chi_8 )	
4.35703429E-11	2	1000022		1000022	# BR(Ah_6 -> Chi_4 Chi_4 )	
1.29030277E-10	2	1000022		1000023	# BR(Ah_6 -> Chi_4 Chi_5 )	
3.29496523E-11	2	1000022		1000025	# BR(Ah_6 -> Chi_4 Chi_6 )	
5.92697825E-11	2	1000023		1000023	# BR(Ah_6 -> Chi_5 Chi_5 )	
2.06081931E-11	2	1000023		1000025	# BR(Ah_6 -> Chi_5 Chi_6 )	
1.81375318E-10	2	1000025		1000025	# BR(Ah_6 -> Chi_6 Chi_6 )	
5.57080993E-18	2	-1		1	# BR(Ah_6 -> Fd_1^* Fd_1 )	
2.00376942E-15	2	-3		3	# BR(Ah_6 -> Fd_2^* Fd_2 )	
5.37988719E-12	2	-5		5	# BR(Ah_6 -> Fd_3^* Fd_3 )	
4.43152258E-19	2	-2		2	# BR(Ah_6 -> Fu_1^* Fu_1 )	
1.05275140E-13	2	-4		4	# BR(Ah_6 -> Fu_2^* Fu_2 )	
1.10279558E-09	2		25	23	# BR(Ah_6 -> hh_1 VZ )	
1.51133487E-09	2		35	23	# BR(Ah_6 -> hh_2 VZ )	
9.20365099E-10	2	1000012		23	# BR(Ah_6 -> hh_3 VZ )	
3.60424182E-10	2	1000014		23	# BR(Ah_6 -> hh_4 VZ )	
1.10764112E-19	2	1000016		23	# BR(Ah_6 -> hh_5 VZ )	

	1.84346787E-21	2	37	24	# BR(Ah_6 -> Hpm_2 Vwm^* )
	1.84346787E-21	2	-37	-24	# BR(Ah_6 -> Hpm_2^* Vwm )
DECAY	2000019	1.87984467E-02	# Ah_7		
#	BR	NDA	ID1	ID2	
	6.90757390E-15	2	22	22	# BR(Ah_7 -> VP VP )
	1.67207288E-12	2	21	21	# BR(Ah_7 -> VG VG )
	1.12924461E-13	2	25	36	# BR(Ah_7 -> hh_1 Ah_2 )
	1.16491342E-13	2	25	1000017	# BR(Ah_7 -> hh_1 Ah_3 )
	6.28044557E-15	2	25	1000018	# BR(Ah_7 -> hh_1 Ah_4 )
	2.32846913E-21	2	25	1000019	# BR(Ah_7 -> hh_1 Ah_5 )
	5.48024609E-22	2	25	2000018	# BR(Ah_7 -> hh_1 Ah_6 )
	2.42251613E-14	2	35	36	# BR(Ah_7 -> hh_2 Ah_2 )
	9.19019585E-14	2	35	1000017	# BR(Ah_7 -> hh_2 Ah_3 )
	8.57520266E-16	2	35	1000018	# BR(Ah_7 -> hh_2 Ah_4 )
	8.76821705E-23	2	35	1000019	# BR(Ah_7 -> hh_2 Ah_5 )
	3.02934762E-22	2	35	2000018	# BR(Ah_7 -> hh_2 Ah_6 )
	5.00585755E-12	2	1000012	36	# BR(Ah_7 -> hh_3 Ah_2 )
	1.34523678E-11	2	1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3 )
	1.01600527E-12	2	1000012	1000018	# BR(Ah_7 -> hh_3 Ah_4 )
	1.22039465E-21	2	1000012	1000019	# BR(Ah_7 -> hh_3 Ah_5 )
	6.32391916E-22	2	1000012	2000018	# BR(Ah_7 -> hh_3 Ah_6 )
	3.63388708E-10	2	1000014	36	# BR(Ah_7 -> hh_4 Ah_2 )
	6.16052029E-10	2	1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3 )
	4.57861326E-11	2	1000014	1000018	# BR(Ah_7 -> hh_4 Ah_4 )
	1.38861042E-22	2	1000014	1000019	# BR(Ah_7 -> hh_4 Ah_5 )
	1.83837620E-23	2	1000014	2000018	# BR(Ah_7 -> hh_4 Ah_6 )
	1.46048649E-19	2	1000016	36	# BR(Ah_7 -> hh_5 Ah_2 )
	2.50781399E-19	2	1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3 )
	1.96263355E-20	2	1000016	1000018	# BR(Ah_7 -> hh_5 Ah_4 )
	7.37976900E-22	2	2000012	36	# BR(Ah_7 -> hh_6 Ah_2 )
	2.78525260E-21	2	2000012	1000017	# BR(Ah_7 -> hh_6 Ah_3 )
	1.61659659E-23	2	2000012	1000018	# BR(Ah_7 -> hh_6 Ah_4 )
	9.91462999E-21	2	-11	11	# BR(Ah_7 -> Cha_1^* Cha_1 )
	4.81839107E-18	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2 )
	2.44407818E-15	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3 )
	2.81446870E-01	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4 )
	4.81839107E-18	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1 )
	1.99033093E-16	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2 )
	2.81381840E-24	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4 )
	2.44407818E-15	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1 )
	5.75189659E-14	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3 )
	3.25910292E-25	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4 )
	2.81446870E-01	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1 )
	2.81381840E-24	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2 )
	3.25910292E-25	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3 )
	2.66977681E-11	2	1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4 )
	1.50610552E-14	2	12	12	# BR(Ah_7 -> Chi_1 Chi_1 )
	8.45893208E-13	2	12	14	# BR(Ah_7 -> Chi_1 Chi_2 )
	2.58976942E-12	2	12	16	# BR(Ah_7 -> Chi_1 Chi_3 )
	1.78716870E-04	2	12	1000022	# BR(Ah_7 -> Chi_1 Chi_4 )
	2.04598362E-04	2	12	1000023	# BR(Ah_7 -> Chi_1 Chi_5 )
	1.31088818E-01	2	12	1000025	# BR(Ah_7 -> Chi_1 Chi_6 )
	1.49244084E-01	2	12	1000039	# BR(Ah_7 -> Chi_1 Chi_7 )
	2.17450618E-02	2	12	1000045	# BR(Ah_7 -> Chi_1 Chi_8 )
	8.48072901E-13	2	14	14	# BR(Ah_7 -> Chi_2 Chi_2 )
	1.06733726E-12	2	14	16	# BR(Ah_7 -> Chi_2 Chi_3 )
	7.93061465E-05	2	14	1000022	# BR(Ah_7 -> Chi_2 Chi_4 )
	9.07911358E-05	2	14	1000023	# BR(Ah_7 -> Chi_2 Chi_5 )
	5.81710556E-02	2	14	1000025	# BR(Ah_7 -> Chi_2 Chi_6 )
	6.62275093E-02	2	14	1000039	# BR(Ah_7 -> Chi_2 Chi_7 )
	9.64943631E-03	2	14	1000045	# BR(Ah_7 -> Chi_2 Chi_8 )
	7.28059516E-15	2	16	16	# BR(Ah_7 -> Chi_3 Chi_3 )
	2.52233477E-07	2	16	1000022	# BR(Ah_7 -> Chi_3 Chi_4 )
	2.88761523E-07	2	16	1000023	# BR(Ah_7 -> Chi_3 Chi_5 )
	1.85013246E-04	2	16	1000025	# BR(Ah_7 -> Chi_3 Chi_6 )
	2.10636826E-04	2	16	1000039	# BR(Ah_7 -> Chi_3 Chi_7 )
	3.06900660E-05	2	16	1000045	# BR(Ah_7 -> Chi_3 Chi_8 )
	9.52649652E-12	2	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4 )
	1.39041152E-12	2	1000022	1000023	# BR(Ah_7 -> Chi_4 Chi_5 )
	2.64176536E-13	2	1000022	1000025	# BR(Ah_7 -> Chi_4 Chi_6 )
	6.42346394E-12	2	1000022	1000039	# BR(Ah_7 -> Chi_4 Chi_7 )
	3.68964668E-12	2	1000022	1000045	# BR(Ah_7 -> Chi_4 Chi_8 )
	5.30811755E-16	2	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5 )

2.33964310E-15	2	1000023	1000025	# BR(Ah_7 -> Chi_5 Chi_6 )	
5.89268055E-13	2	1000023	1000039	# BR(Ah_7 -> Chi_5 Chi_7 )	
2.11094616E-13	2	1000023	1000045	# BR(Ah_7 -> Chi_5 Chi_8 )	
1.87391906E-11	2	1000025	1000025	# BR(Ah_7 -> Chi_6 Chi_6 )	
1.36582116E-11	2	1000025	1000039	# BR(Ah_7 -> Chi_6 Chi_7 )	
6.91694219E-13	2	1000025	1000045	# BR(Ah_7 -> Chi_6 Chi_8 )	
3.91269504E-19	2	-1	1	# BR(Ah_7 -> Fd_1^* Fd_1 )	
1.40736059E-16	2	-3	3	# BR(Ah_7 -> Fd_2^* Fd_2 )	
3.77884617E-13	2	-5	5	# BR(Ah_7 -> Fd_3^* Fd_3 )	
2.37263804E-20	2	-2	2	# BR(Ah_7 -> Fu_1^* Fu_1 )	
5.63644592E-15	2	-4	4	# BR(Ah_7 -> Fu_2^* Fu_2 )	
3.53306895E-10	2	-6	6	# BR(Ah_7 -> Fu_3^* Fu_3 )	
5.91656186E-10	2	25	23	# BR(Ah_7 -> hh_1 VZ )	
3.90344111E-11	2	35	23	# BR(Ah_7 -> hh_2 VZ )	
1.65120055E-10	2	1000012	23	# BR(Ah_7 -> hh_3 VZ )	
2.63148282E-11	2	1000014	23	# BR(Ah_7 -> hh_4 VZ )	
6.85373401E-21	2	1000016	23	# BR(Ah_7 -> hh_5 VZ )	
4.03200996E-23	2	2000012	23	# BR(Ah_7 -> hh_6 VZ )	
7.15719787E-23	2	37	24	# BR(Ah_7 -> Hpm_2 VWm^* )	
7.15719787E-23	2	-37	-24	# BR(Ah_7 -> Hpm_2^* VWm )	
3.21364041E-23	2	1000011	24	# BR(Ah_7 -> Hpm_3 VWm^* )	
3.21364041E-23	2	-1000011	-24	# BR(Ah_7 -> Hpm_3^* VWm )	
DECAY	2000020	2.63810395E+01	# Ah_8		
#	BR	NDA	ID1	ID2	
1.48409349E-06	2		22	22	# BR(Ah_8 -> VP VP )
2.88758103E-04	2		21	21	# BR(Ah_8 -> VG VG )
1.56279596E-04	2		25	36	# BR(Ah_8 -> hh_1 Ah_2 )
4.75263433E-04	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3 )
4.02167784E-07	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4 )
2.93606285E-15	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5 )
6.13971242E-17	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6 )
7.64019875E-15	2		25	2000019	# BR(Ah_8 -> hh_1 Ah_7 )
1.86563432E-04	2		35	36	# BR(Ah_8 -> hh_2 Ah_2 )
1.81038242E-06	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3 )
4.93940032E-04	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4 )
1.40297086E-14	2		35	1000019	# BR(Ah_8 -> hh_2 Ah_5 )
4.25313861E-15	2		35	2000018	# BR(Ah_8 -> hh_2 Ah_6 )
1.05218161E-15	2		35	2000019	# BR(Ah_8 -> hh_2 Ah_7 )
1.83147929E-02	2		1000012	36	# BR(Ah_8 -> hh_3 Ah_2 )
2.23188397E-05	2		1000012	1000017	# BR(Ah_8 -> hh_3 Ah_3 )
2.61226183E-05	2		1000012	1000018	# BR(Ah_8 -> hh_3 Ah_4 )
3.19620550E-13	2		1000012	1000019	# BR(Ah_8 -> hh_3 Ah_5 )
3.08951266E-13	2		1000012	2000018	# BR(Ah_8 -> hh_3 Ah_6 )
4.28929041E-14	2		1000012	2000019	# BR(Ah_8 -> hh_3 Ah_7 )
1.84351397E-01	2		1000014	36	# BR(Ah_8 -> hh_4 Ah_2 )
7.72380958E-05	2		1000014	1000017	# BR(Ah_8 -> hh_4 Ah_3 )
7.72827979E-05	2		1000014	1000018	# BR(Ah_8 -> hh_4 Ah_4 )
1.41959108E-12	2		1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5 )
3.21235032E-13	2		1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6 )
3.76916085E-14	2		1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7 )
7.26645860E-11	2		1000016	36	# BR(Ah_8 -> hh_5 Ah_2 )
1.87942500E-14	2		1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3 )
1.01897912E-15	2		1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4 )
6.37063813E-22	2		1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5 )
1.65952588E-22	2		1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6 )
1.83880976E-23	2		1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7 )
6.42048871E-13	2		2000012	36	# BR(Ah_8 -> hh_6 Ah_2 )
4.90204481E-15	2		2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3 )
9.75547185E-15	2		2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4 )
1.09911637E-23	2		2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5 )
2.47773236E-24	2		2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6 )
2.54556459E-25	2		2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7 )
2.62254481E-14	2		2000014	36	# BR(Ah_8 -> hh_7 Ah_2 )
1.02507596E-14	2		2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3 )
9.50632231E-16	2		2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4 )
8.28130929E-25	2		2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5 )
1.62726394E-25	2		2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6 )
8.21604651E-11	2		-11	11	# BR(Ah_8 -> Cha_1^* Cha_1 )
1.80698079E-30	2		-11	13	# BR(Ah_8 -> Cha_1^* Cha_2 )
1.02850448E-27	2		-11	15	# BR(Ah_8 -> Cha_1^* Cha_3 )
9.24502109E-17	2		-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4 )
1.80698079E-30	2		-13	11	# BR(Ah_8 -> Cha_2^* Cha_1 )
3.67028982E-06	2		-13	13	# BR(Ah_8 -> Cha_2^* Cha_2 )



4.50348573E-27	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3 )
4.55507362E-16	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4 )
1.02850448E-27	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1 )
4.50348573E-27	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2 )
1.06070562E-03	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3 )
3.93907000E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4 )
9.24502109E-17	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1 )
4.55507362E-16	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2 )
3.93907000E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3 )
1.88176823E-02	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4 )
1.63757051E-28	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1 )
2.99579383E-29	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2 )
6.68674169E-29	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3 )
9.09572987E-17	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4 )
1.85591863E-16	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5 )
1.39813479E-19	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6 )
2.22824130E-18	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7 )
1.12895191E-17	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8 )
5.00836857E-19	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9 )
1.66499818E-28	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2 )
4.89531006E-27	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3 )
4.32032948E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4 )
6.86369758E-17	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5 )
2.96256936E-15	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6 )
1.69378503E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7 )
4.59567999E-18	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8 )
4.89873490E-20	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9 )
1.58964955E-28	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3 )
5.01328701E-16	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4 )
7.55266171E-16	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5 )
9.63145849E-15	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6 )
5.32716313E-15	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7 )
3.69472805E-19	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8 )
1.24657380E-18	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9 )
4.65615540E-04	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4 )
9.89321638E-07	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5 )
5.88286696E-04	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6 )
1.26214445E-05	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7 )
8.76767446E-05	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8 )
4.88766648E-04	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5 )
6.68701147E-04	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6 )
1.43332078E-05	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7 )
9.92982182E-05	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8 )
2.22361054E-01	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6 )
8.30024053E-03	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7 )
5.63998089E-02	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8 )
3.54525949E-03	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7 )
6.05356075E-02	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8 )
1.06803653E-01	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8 )
7.21524397E-09	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1 )
2.59525725E-06	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2 )
6.96856563E-03	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3 )
5.92059839E-12	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1 )
1.40649935E-06	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2 )
1.06229279E-01	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3 )
8.70398358E-04	2	25	23	# BR(Ah_8 -> hh_1 VZ )
1.13512410E-03	2	35	23	# BR(Ah_8 -> hh_2 VZ )
1.97937483E-01	2	1000012	23	# BR(Ah_8 -> hh_3 VZ )
2.12751564E-03	2	1000014	23	# BR(Ah_8 -> hh_4 VZ )
3.92262396E-12	2	1000016	23	# BR(Ah_8 -> hh_5 VZ )
2.25664087E-13	2	2000012	23	# BR(Ah_8 -> hh_6 VZ )
1.22495405E-14	2	2000014	23	# BR(Ah_8 -> hh_7 VZ )
1.92261097E-27	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3 )
3.98095894E-27	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4 )
1.92261097E-27	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2 )
9.72879948E-28	2	-1000011	2000011	# BR(Ah_8 -> Hpm_3^* Hpm_4 )
3.98095894E-27	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2 )
9.72879948E-28	2	-2000011	1000011	# BR(Ah_8 -> Hpm_4^* Hpm_3 )
2.16194762E-16	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^* )
2.16194762E-16	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm )
1.74927973E-16	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^* )
1.74927973E-16	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm )
6.40398039E-16	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^* )

6.40398039E-16		2	-200011	-24	# BR(Ah_8 -> Hpm_4^* Vwm )
DECAY	37	5.37203906E-05	# Hpm_2		
#	BR	NDA	ID1	ID2	
1.04452468E-11	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1 )
7.28227056E-11	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2 )
1.22664189E-10	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3 )
2.50757940E-11	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1 )
1.74819523E-10	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2 )
2.20700446E-10	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3 )
7.64499647E-12	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1 )
5.33862301E-11	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2 )
4.47305836E-11	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3 )
4.96182749E-21	2		1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1 )
1.05960622E-20	2		1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2 )
1.27706609E-03	2		1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3 )
2.78144304E-22	2		1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1 )
1.04102295E-20	2		1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2 )
1.46277929E-03	2		1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3 )
9.85162868E-23	2		1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1 )
2.82033801E-22	2		1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2 )
9.97260154E-01	2		1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3 )
2.21632310E-16	2		-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1 )
3.62182887E-15	2		-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2 )
2.24209995E-15	2		-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3 )
4.25678075E-13	2		-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1 )
8.01381433E-12	2		-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2 )
3.38412077E-13	2		-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3 )
DECAY	1000011	4.71105587E-04	# Hpm_3		
#	BR	NDA	ID1	ID2	
3.23050080E-20	2		37	36	# BR(Hpm_3 -> Hpm_2 Ah_2 )
6.08509445E-20	2		37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3 )
2.13469572E-19	2		37	1000018	# BR(Hpm_3 -> Hpm_2 Ah_4 )
2.14167190E-10	2		37	1000019	# BR(Hpm_3 -> Hpm_2 Ah_5 )
1.63243108E-08	2		36	-24	# BR(Hpm_3 -> Ah_2 Vwm )
1.86881370E-08	2		1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm )
1.62311394E-08	2		1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm )
1.05897838E-19	2		1000019	-24	# BR(Hpm_3 -> Ah_5 Vwm )
6.30019747E-13	2		12	11	# BR(Hpm_3 -> Chi_1 Cha_1 )
5.00968219E-12	2		12	13	# BR(Hpm_3 -> Chi_1 Cha_2 )
8.71520414E-12	2		12	15	# BR(Hpm_3 -> Chi_1 Cha_3 )
4.71634338E-02	2		12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4 )
1.06840549E-12	2		14	11	# BR(Hpm_3 -> Chi_2 Cha_1 )
1.89238750E-11	2		14	13	# BR(Hpm_3 -> Chi_2 Cha_2 )
1.54854305E-11	2		14	15	# BR(Hpm_3 -> Chi_2 Cha_3 )
7.99811194E-02	2		14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4 )
7.83882139E-12	2		16	11	# BR(Hpm_3 -> Chi_3 Cha_1 )
2.23788288E-11	2		16	13	# BR(Hpm_3 -> Chi_3 Cha_2 )
9.67080949E-11	2		16	15	# BR(Hpm_3 -> Chi_3 Cha_3 )
5.86816311E-01	2		16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4 )
6.65984486E-22	2		1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1 )
3.34339665E-04	2		1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2 )
8.09616184E-23	2		1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3 )
6.33757833E-11	2		1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4 )
7.54285922E-23	2		1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1 )
3.80944650E-04	2		1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2 )
5.71279539E-24	2		1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3 )
1.53056293E-10	2		1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4 )
1.59494994E-23	2		1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1 )
2.32451735E-01	2		1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2 )
1.06478832E-22	2		1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3 )
3.44744716E-09	2		1000025	-1000024	# BR(Hpm_3 -> Chi_6 Cha_4 )
1.48051201E-26	2		1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1 )
4.29662505E-02	2		1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2 )
4.64299509E-24	2		1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3 )
4.05727490E-25	2		1000045	11	# BR(Hpm_3 -> Chi_8 Cha_1 )
9.90572414E-03	2		1000045	13	# BR(Hpm_3 -> Chi_8 Cha_2 )
4.89394440E-24	2		1000045	15	# BR(Hpm_3 -> Chi_8 Cha_3 )
2.81993105E-17	2		-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1 )
4.64191760E-16	2		-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2 )
2.87672508E-16	2		-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3 )
5.19358925E-14	2		-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1 )
9.78159976E-13	2		-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2 )
4.33307374E-14	2		-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3 )

1.29064655E-12	2	-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1 )
6.10375839E-11	2	-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2 )
3.64418813E-08	2	-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3 )
8.93941065E-20	2	37	25	# BR(Hpm_3 -> Hpm_2 hh_1 )
1.70162583E-20	2	37	35	# BR(Hpm_3 -> Hpm_2 hh_2 )
1.21283410E-19	2	37	1000012	# BR(Hpm_3 -> Hpm_2 hh_3 )
3.03072941E-19	2	37	1000014	# BR(Hpm_3 -> Hpm_2 hh_4 )
2.14167190E-10	2	37	1000016	# BR(Hpm_3 -> Hpm_2 hh_5 )
1.36518896E-08	2	25	-24	# BR(Hpm_3 -> hh_1 Vwm )
1.88781263E-08	2	35	-24	# BR(Hpm_3 -> hh_2 Vwm )
1.22108780E-08	2	1000012	-24	# BR(Hpm_3 -> hh_3 Vwm )
4.57073063E-09	2	1000014	-24	# BR(Hpm_3 -> hh_4 Vwm )
1.10050337E-18	2	1000016	-24	# BR(Hpm_3 -> hh_5 Vwm )
2.43675262E-13	2	-24	23	# BR(Hpm_3 -> Vwm VZ )
DECAY 2000011	1.86486605E-03	# Hpm_4		
# BR	NDA	ID1	ID2	
1.19757926E-20	2	37	36	# BR(Hpm_4 -> Hpm_2 Ah_2 )
3.41357817E-20	2	37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3 )
7.02389849E-21	2	37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4 )
1.64763324E-11	2	37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5 )
1.98560872E-21	2	1000011	36	# BR(Hpm_4 -> Hpm_3 Ah_2 )
1.75347186E-20	2	1000011	1000017	# BR(Hpm_4 -> Hpm_3 Ah_3 )
9.90047155E-24	2	1000011	1000018	# BR(Hpm_4 -> Hpm_3 Ah_4 )
3.03384753E-09	2	36	-24	# BR(Hpm_4 -> Ah_2 Vwm )
5.86326706E-09	2	1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm )
4.37826915E-10	2	1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm )
1.05459456E-20	2	1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm )
7.08669908E-22	2	2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm )
2.95034372E-12	2	12	11	# BR(Hpm_4 -> Chi_1 Cha_1 )
1.84778058E-11	2	12	13	# BR(Hpm_4 -> Chi_1 Cha_2 )
3.25295940E-11	2	12	15	# BR(Hpm_4 -> Chi_1 Cha_3 )
5.35202058E-01	2	12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4 )
3.27458643E-15	2	14	11	# BR(Hpm_4 -> Chi_2 Cha_1 )
8.19966999E-12	2	14	13	# BR(Hpm_4 -> Chi_2 Cha_2 )
1.45812202E-11	2	14	15	# BR(Hpm_4 -> Chi_2 Cha_3 )
2.37497517E-01	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4 )
3.06388835E-12	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1 )
2.69562743E-14	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2 )
1.00453972E-13	2	16	15	# BR(Hpm_4 -> Chi_3 Cha_3 )
7.55361685E-04	2	16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4 )
1.40708413E-04	2	1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1 )
5.57096273E-23	2	1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2 )
6.45724729E-24	2	1000022	15	# BR(Hpm_4 -> Chi_4 Cha_3 )
8.76197766E-11	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4 )
1.60668476E-04	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1 )
1.07806326E-22	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2 )
1.17112412E-24	2	1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3 )
8.87318439E-12	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4 )
1.00395027E-01	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1 )
3.96822566E-24	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2 )
6.66269241E-24	2	1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3 )
8.28984200E-10	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4 )
8.78759828E-02	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1 )
1.65968252E-26	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2 )
4.67074848E-25	2	1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3 )
7.68452384E-11	2	1000039	-1000024	# BR(Hpm_4 -> Chi_7 Cha_4 )
3.79726547E-02	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1 )
2.03415342E-24	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2 )
4.18701747E-24	2	1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3 )
2.02410945E-18	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1 )
3.46007084E-17	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2 )
2.14506311E-17	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3 )
2.87955930E-15	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1 )
5.43985161E-14	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2 )
3.19782460E-15	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3 )
1.19843247E-13	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1 )
5.66765803E-12	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2 )
3.38458456E-09	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3 )
3.03843407E-20	2	37	25	# BR(Hpm_4 -> Hpm_2 hh_1 )
3.08937071E-22	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2 )
1.52537991E-20	2	37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3 )
1.72854284E-20	2	37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4 )
1.64763324E-11	2	37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5 )

5.95063077E-21	2	1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1 )
3.78220973E-21	2	1000011	35	# BR(Hpm_4 -> Hpm_3 hh_2 )
7.27426055E-21	2	1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3 )
1.28205283E-21	2	1000011	1000014	# BR(Hpm_4 -> Hpm_3 hh_4 )
6.33794803E-09	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm )
4.22241383E-10	2	35	-24	# BR(Hpm_4 -> hh_2 Vwm )
1.90011121E-09	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm )
2.52706243E-10	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm )
5.32004992E-20	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm )
6.59208873E-24	2	2000012	-24	# BR(Hpm_4 -> hh_6 Vwm )
9.93726318E-29	2	1000011	23	# BR(Hpm_4 -> Hpm_3 VZ )
7.76323584E-14	2	-24	23	# BR(Hpm_4 -> Vwm VZ )
DECAY 1000013	2.41543617E+01	# Hpm_5		
# BR	NDA	ID1	ID2	
9.87774527E-13	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2 )
1.72099696E-17	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3 )
5.72186724E-15	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4 )
1.42422363E-04	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5 )
1.27242728E-24	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6 )
1.08355702E-25	2	37	2000019	# BR(Hpm_5 -> Hpm_2 Ah_7 )
4.07963670E-13	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2 )
4.37028793E-15	2	1000011	1000017	# BR(Hpm_5 -> Hpm_3 Ah_3 )
7.98144992E-15	2	1000011	1000018	# BR(Hpm_5 -> Hpm_3 Ah_4 )
3.75204653E-24	2	1000011	1000019	# BR(Hpm_5 -> Hpm_3 Ah_5 )
1.12733663E-04	2	1000011	2000018	# BR(Hpm_5 -> Hpm_3 Ah_6 )
3.96399836E-26	2	1000011	2000019	# BR(Hpm_5 -> Hpm_3 Ah_7 )
2.57389017E-14	2	2000011	36	# BR(Hpm_5 -> Hpm_4 Ah_2 )
1.04010832E-14	2	2000011	1000017	# BR(Hpm_5 -> Hpm_4 Ah_3 )
9.74877110E-16	2	2000011	1000018	# BR(Hpm_5 -> Hpm_4 Ah_4 )
4.61774421E-25	2	2000011	1000019	# BR(Hpm_5 -> Hpm_4 Ah_5 )
5.74551449E-26	2	2000011	2000018	# BR(Hpm_5 -> Hpm_4 Ah_6 )
2.02445546E-01	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm )
8.20096670E-05	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm )
8.18146757E-05	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm )
1.25538176E-12	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm )
2.30387625E-13	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm )
1.88528866E-14	2	2000019	-24	# BR(Hpm_5 -> Ah_7 Vwm )
6.22853846E-11	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1 )
2.65626788E-07	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2 )
2.81197669E-04	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3 )
9.70014494E-18	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4 )
2.76393260E-11	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1 )
4.50457614E-07	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2 )
6.75068376E-04	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3 )
1.64212672E-15	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4 )
8.79069733E-14	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1 )
3.30497844E-06	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2 )
2.05811848E-04	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3 )
4.77850764E-15	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4 )
1.11252825E-15	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1 )
2.34201259E-15	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2 )
1.67004917E-17	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3 )
5.21111488E-04	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4 )
6.77133738E-17	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1 )
2.43274113E-15	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2 )
1.07886193E-16	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3 )
5.91120065E-04	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4 )
1.58013271E-17	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1 )
3.92140082E-17	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2 )
2.57350983E-15	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3 )
3.42791660E-01	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4 )
2.48403250E-16	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1 )
1.77368518E-15	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2 )
3.42342249E-15	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3 )
7.37234546E-02	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4 )
1.83223602E-16	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1 )
1.24133411E-15	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2 )
2.31930623E-15	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3 )
5.67495898E-02	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4 )
6.77476207E-09	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1 )
1.30262035E-07	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2 )
8.07925332E-08	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3 )
7.08783689E-08	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1 )

3.74693494E-06	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2 )
1.16843399E-05	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3 )
3.58503788E-06	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1 )
1.69548399E-04	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2 )
1.07459456E-01	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3 )
1.99687605E-15	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1 )
6.31043606E-17	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2 )
1.20176086E-12	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3 )
1.35409604E-13	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4 )
1.42422363E-04	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5 )
1.36153584E-24	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6 )
1.05464250E-25	2	37	2000014	# BR(Hpm_5 -> Hpm_2 hh_7 )
3.93045675E-16	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1 )
1.76092723E-14	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2 )
5.91634214E-13	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3 )
1.37905990E-14	2	1000011	1000014	# BR(Hpm_5 -> Hpm_3 hh_4 )
1.49570634E-23	2	1000011	1000016	# BR(Hpm_5 -> Hpm_3 hh_5 )
1.12733663E-04	2	1000011	2000012	# BR(Hpm_5 -> Hpm_3 hh_6 )
3.79503553E-26	2	1000011	2000014	# BR(Hpm_5 -> Hpm_3 hh_7 )
1.34474691E-14	2	2000011	25	# BR(Hpm_5 -> Hpm_4 hh_1 )
1.96928892E-15	2	2000011	35	# BR(Hpm_5 -> Hpm_4 hh_2 )
7.78782497E-14	2	2000011	1000012	# BR(Hpm_5 -> Hpm_4 hh_3 )
1.85416832E-15	2	2000011	1000014	# BR(Hpm_5 -> Hpm_4 hh_4 )
1.60736478E-24	2	2000011	1000016	# BR(Hpm_5 -> Hpm_4 hh_5 )
4.82748524E-26	2	2000011	2000012	# BR(Hpm_5 -> Hpm_4 hh_6 )
9.20363126E-04	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm )
1.20028150E-03	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm )
2.09297609E-01	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm )
2.27071471E-03	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm )
4.09911356E-12	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm )
2.49702216E-13	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm )
1.88563673E-14	2	2000014	-24	# BR(Hpm_5 -> hh_7 Vwm )
2.40276869E-21	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ )
3.06653338E-27	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ )
4.34441283E-09	2	-24	23	# BR(Hpm_5 -> Vwm VZ )
DECAY	2000013	2.80990088E-01	# Hpm_6	
#	BR	NDA	ID1	ID2
1.02428071E-07	2	37	36	# BR(Hpm_6 -> Hpm_2 Ah_2 )
7.51053820E-10	2	37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3 )
7.98201852E-10	2	37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4 )
9.62027541E-17	2	37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5 )
3.15143908E-16	2	37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6 )
1.91812012E-16	2	37	2000019	# BR(Hpm_6 -> Hpm_2 Ah_7 )
2.35585640E-25	2	1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2 )
3.49687040E-27	2	1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3 )
9.98752619E-28	2	1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4 )
2.82507296E-16	2	1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5 )
4.31665649E-17	2	1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6 )
1.45731351E-26	2	2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2 )
2.43145298E-27	2	2000011	1000017	# BR(Hpm_6 -> Hpm_4 Ah_3 )
1.39027619E-27	2	2000011	1000018	# BR(Hpm_6 -> Hpm_4 Ah_4 )
1.21312158E-16	2	2000011	1000019	# BR(Hpm_6 -> Hpm_4 Ah_5 )
1.63109639E-17	2	2000011	2000019	# BR(Hpm_6 -> Hpm_4 Ah_7 )
5.64932732E-14	2	1000013	36	# BR(Hpm_6 -> Hpm_5 Ah_2 )
1.01910948E-14	2	1000013	1000017	# BR(Hpm_6 -> Hpm_5 Ah_3 )
1.47786718E-13	2	1000013	1000018	# BR(Hpm_6 -> Hpm_5 Ah_4 )
1.12125885E-13	2	36	-24	# BR(Hpm_6 -> Ah_2 Vwm )
1.38447435E-17	2	1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm )
1.20014820E-15	2	1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm )
6.36454632E-05	2	1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm )
1.83938814E-25	2	2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm )
2.21766107E-26	2	2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm )
7.60774419E-15	2	2000020	-24	# BR(Hpm_6 -> Ah_8 Vwm )
6.50602679E-16	2	12	11	# BR(Hpm_6 -> Chi_1 Cha_1 )
2.84159434E-15	2	12	13	# BR(Hpm_6 -> Chi_1 Cha_2 )
6.96269494E-15	2	12	15	# BR(Hpm_6 -> Chi_1 Cha_3 )
2.64757857E-02	2	12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4 )
1.56189516E-15	2	14	11	# BR(Hpm_6 -> Chi_2 Cha_1 )
6.82169638E-15	2	14	13	# BR(Hpm_6 -> Chi_2 Cha_2 )
1.14655221E-13	2	14	15	# BR(Hpm_6 -> Chi_2 Cha_3 )
6.35601487E-02	2	14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4 )
4.76183654E-16	2	16	11	# BR(Hpm_6 -> Chi_3 Cha_1 )
2.08129399E-15	2	16	13	# BR(Hpm_6 -> Chi_3 Cha_2 )

2.95267391E-13	2	16	15	# BR(Hpm_6 -> Chi_3 Cha_3 )
1.93779358E-02	2	16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4 )
6.13894055E-28	2	1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1 )
7.62103132E-28	2	1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2 )
2.21711783E-05	2	1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3 )
3.24194370E-16	2	1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4 )
1.40922670E-28	2	1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1 )
2.15315024E-27	2	1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2 )
2.54733951E-05	2	1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3 )
1.36155691E-15	2	1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4 )
1.28875886E-27	2	1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1 )
5.87746199E-27	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2 )
1.71002307E-02	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3 )
1.73169413E-13	2	1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4 )
1.09797384E-25	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1 )
4.88469652E-25	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2 )
8.70616524E-02	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3 )
3.41529587E-14	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4 )
9.98556351E-26	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1 )
4.42692705E-25	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2 )
5.35460683E-02	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3 )
2.89446557E-14	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4 )
1.34167916E-29	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1 )
2.41306838E-28	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2 )
7.32605071E-01	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3 )
3.26248067E-21	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1 )
6.27327512E-20	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2 )
3.89091741E-20	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3 )
3.19741160E-20	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1 )
1.76415905E-18	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2 )
5.62703773E-18	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3 )
1.64459301E-18	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1 )
7.77784194E-17	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2 )
4.95034930E-14	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3 )
2.25041830E-09	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1 )
1.66550347E-09	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2 )
1.55900884E-07	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3 )
3.55658904E-05	2	37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4 )
1.34752052E-14	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5 )
5.00098252E-16	2	37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6 )
2.03971092E-16	2	37	2000014	# BR(Hpm_6 -> Hpm_2 hh_7 )
4.19310293E-28	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1 )
2.84528492E-26	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2 )
3.11061051E-25	2	1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3 )
7.06913426E-26	2	1000011	1000014	# BR(Hpm_6 -> Hpm_3 hh_4 )
2.82507296E-16	2	1000011	1000016	# BR(Hpm_6 -> Hpm_3 hh_5 )
4.31665648E-17	2	1000011	2000012	# BR(Hpm_6 -> Hpm_3 hh_6 )
8.07905924E-27	2	2000011	25	# BR(Hpm_6 -> Hpm_4 hh_1 )
6.83927872E-27	2	2000011	35	# BR(Hpm_6 -> Hpm_4 hh_2 )
3.66430698E-26	2	2000011	1000012	# BR(Hpm_6 -> Hpm_4 hh_3 )
3.80862569E-26	2	2000011	1000014	# BR(Hpm_6 -> Hpm_4 hh_4 )
1.21312158E-16	2	2000011	1000016	# BR(Hpm_6 -> Hpm_4 hh_5 )
1.63109639E-17	2	2000011	2000014	# BR(Hpm_6 -> Hpm_4 hh_7 )
9.02726518E-15	2	1000013	25	# BR(Hpm_6 -> Hpm_5 hh_1 )
1.18746696E-13	2	1000013	35	# BR(Hpm_6 -> Hpm_5 hh_2 )
8.34055597E-14	2	1000013	1000012	# BR(Hpm_6 -> Hpm_5 hh_3 )
1.17526715E-15	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm )
4.13132808E-15	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm )
1.13256030E-13	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm )
1.19519180E-14	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm )
6.36454632E-05	2	1000016	-24	# BR(Hpm_6 -> hh_5 Vwm )
2.15998662E-25	2	2000012	-24	# BR(Hpm_6 -> hh_6 Vwm )
2.26567067E-26	2	2000014	-24	# BR(Hpm_6 -> hh_7 Vwm )
9.30659841E-15	2	2000016	-24	# BR(Hpm_6 -> hh_8 Vwm )
6.23421654E-05	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ )
2.67354290E-27	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ )
6.97444439E-28	2	2000011	23	# BR(Hpm_6 -> Hpm_4 VZ )
1.46840933E-14	2	1000013	23	# BR(Hpm_6 -> Hpm_5 VZ )
1.15671829E-20	2	-24	23	# BR(Hpm_6 -> Vwm VZ )
DECAY	1000015	2.21148140E-01	# Hpm_7	
#	BR	NDA	ID1	ID2
8.83401440E-29	2	37	36	# BR(Hpm_7 -> Hpm_2 Ah_2 )
1.27525306E-28	2	37	1000017	# BR(Hpm_7 -> Hpm_2 Ah_3 )

1.34119790E-28	2	37	1000018	# BR(Hpm_7 -> Hpm_2 Ah_4 )
9.76606311E-21	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5 )
5.39214579E-17	2	37	2000018	# BR(Hpm_7 -> Hpm_2 Ah_6 )
5.17042769E-06	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2 )
2.06682228E-09	2	1000011	1000017	# BR(Hpm_7 -> Hpm_3 Ah_3 )
2.06774945E-09	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4 )
1.50241821E-16	2	1000011	1000019	# BR(Hpm_7 -> Hpm_3 Ah_5 )
5.92198223E-18	2	1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6 )
5.67554829E-18	2	1000011	2000019	# BR(Hpm_7 -> Hpm_3 Ah_7 )
6.73127259E-28	2	2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2 )
1.03393505E-29	2	2000011	1000017	# BR(Hpm_7 -> Hpm_4 Ah_3 )
8.39935651E-30	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4 )
2.90502147E-18	2	2000011	2000018	# BR(Hpm_7 -> Hpm_4 Ah_6 )
3.11114509E-21	2	2000011	2000019	# BR(Hpm_7 -> Hpm_4 Ah_7 )
6.95526310E-19	2	1000013	36	# BR(Hpm_7 -> Hpm_5 Ah_2 )
3.71592125E-19	2	1000013	1000017	# BR(Hpm_7 -> Hpm_5 Ah_3 )
3.12315244E-19	2	1000013	1000018	# BR(Hpm_7 -> Hpm_5 Ah_4 )
3.20101375E-17	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm )
2.45964619E-17	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm )
2.09668237E-17	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm )
1.03373136E-28	2	1000019	-24	# BR(Hpm_7 -> Ah_5 Vwm )
9.83089155E-06	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm )
1.15106577E-27	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm )
1.09801054E-19	2	2000020	-24	# BR(Hpm_7 -> Ah_8 Vwm )
7.68377162E-19	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1 )
1.04465433E-15	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2 )
3.64219743E-19	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3 )
3.17354313E-05	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4 )
1.30303628E-18	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1 )
1.30392491E-13	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2 )
6.18574017E-19	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3 )
5.38178651E-05	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4 )
9.56029312E-18	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1 )
3.51710932E-13	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2 )
4.51641249E-18	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3 )
3.94858203E-04	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4 )
2.92346187E-22	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1 )
2.80010727E-05	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2 )
2.13029551E-30	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3 )
1.87666825E-16	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4 )
3.35317900E-22	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1 )
3.21171111E-05	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2 )
2.35783178E-30	2	1000023	15	# BR(Hpm_7 -> Chi_5 Cha_3 )
1.89150632E-16	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4 )
2.19137503E-19	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1 )
2.09911845E-02	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2 )
7.04793178E-30	2	1000025	15	# BR(Hpm_7 -> Chi_6 Cha_3 )
2.90366086E-18	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4 )
4.36983519E-19	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1 )
4.20908012E-02	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2 )
6.23603070E-29	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3 )
4.11696171E-19	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4 )
4.74041670E-20	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1 )
4.76034460E-03	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2 )
4.59504579E-29	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3 )
1.12821433E-18	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4 )
9.72626141E-18	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1 )
9.31567596E-01	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2 )
2.59415767E-28	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3 )
3.18908690E-26	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1 )
6.04398297E-25	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2 )
3.74854943E-25	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3 )
6.14904632E-24	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1 )
1.26034538E-22	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2 )
5.44065765E-23	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3 )
3.17925573E-22	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1 )
1.50354335E-20	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2 )
9.00245936E-18	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3 )
9.72085585E-29	2	37	25	# BR(Hpm_7 -> Hpm_2 hh_1 )
1.17867055E-28	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2 )
1.12197218E-28	2	37	1000012	# BR(Hpm_7 -> Hpm_2 hh_3 )
6.34510406E-30	2	37	1000014	# BR(Hpm_7 -> Hpm_2 hh_4 )
9.76606311E-21	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5 )

5.39214579E-17	2	37	2000012	# BR(Hpm_7 -> Hpm_2 hh_6 )
7.61006303E-09	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1 )
1.07047435E-08	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2 )
2.74261932E-06	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3 )
1.23426289E-05	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4 )
5.79479303E-15	2	1000011	1000016	# BR(Hpm_7 -> Hpm_3 hh_5 )
1.85152560E-17	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6 )
6.75925912E-18	2	1000011	2000014	# BR(Hpm_7 -> Hpm_3 hh_7 )
5.72886291E-30	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1 )
3.36942487E-30	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2 )
2.91966584E-28	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3 )
1.75947104E-27	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4 )
2.90502147E-18	2	2000011	2000012	# BR(Hpm_7 -> Hpm_4 hh_6 )
3.11114509E-21	2	2000011	2000014	# BR(Hpm_7 -> Hpm_4 hh_7 )
2.37775819E-19	2	1000013	25	# BR(Hpm_7 -> Hpm_5 hh_1 )
4.75330085E-19	2	1000013	35	# BR(Hpm_7 -> Hpm_5 hh_2 )
1.53585327E-18	2	1000013	1000012	# BR(Hpm_7 -> Hpm_5 hh_3 )
1.67065580E-17	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm )
2.53603786E-17	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm )
2.93228749E-17	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm )
8.19694393E-18	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm )
2.86569231E-27	2	1000016	-24	# BR(Hpm_7 -> hh_5 Vwm )
9.83089155E-06	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm )
1.08656676E-27	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm )
1.34060858E-19	2	2000016	-24	# BR(Hpm_7 -> hh_8 Vwm )
9.60446305E-06	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ )
1.15707659E-27	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ )
2.10874184E-19	2	1000013	23	# BR(Hpm_7 -> Hpm_5 VZ )
5.00008232E-22	2	-24	23	# BR(Hpm_7 -> Vwm VZ )
DECAY 2000015	2.20929661E-01	# Hpm_8		
# BR	NDA	ID1	ID2	
4.32309663E-26	2	37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5 )
1.00881382E-21	2	37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7 )
5.40369310E-23	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2 )
2.15941380E-26	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3 )
2.16091887E-26	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4 )
3.64434518E-26	2	1000011	2000018	# BR(Hpm_8 -> Hpm_3 Ah_6 )
4.70601730E-22	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7 )
9.76406566E-11	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2 )
3.89429086E-14	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3 )
3.89577717E-14	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4 )
2.81203388E-21	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5 )
9.92079727E-22	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6 )
5.60545354E-24	2	2000011	2000019	# BR(Hpm_8 -> Hpm_4 Ah_7 )
3.12685793E-24	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2 )
2.53007919E-24	2	1000013	1000017	# BR(Hpm_8 -> Hpm_5 Ah_3 )
1.82137009E-25	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4 )
1.32199980E-22	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm )
1.44157408E-22	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm )
1.04929226E-23	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm )
1.02782980E-22	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm )
1.83001361E-10	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm )
5.48708308E-25	2	2000020	-24	# BR(Hpm_8 -> Ah_8 Vwm )
1.04242462E-15	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1 )
7.81829579E-22	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2 )
8.41095785E-23	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3 )
7.44727579E-09	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4 )
1.30511185E-13	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1 )
3.46938959E-22	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2 )
3.73358487E-23	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3 )
3.30474682E-09	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4 )
3.52054700E-13	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1 )
1.10355327E-24	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2 )
1.23190166E-25	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3 )
1.05103510E-11	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4 )
2.80282083E-05	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1 )
2.92641134E-22	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2 )
2.02175818E-21	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4 )
3.21480504E-05	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1 )
3.35658136E-22	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2 )
1.19283341E-22	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4 )
2.10094468E-02	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1 )
2.19380312E-19	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2 )



1.80846713E-23	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4 )
4.18950760E-02	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1 )
4.39893871E-19	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2 )
2.00984242E-24	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4 )
4.54479711E-03	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1 )
4.97506962E-20	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2 )
3.95565026E-24	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4 )
9.32490492E-01	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1 )
9.73588966E-18	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2 )
2.84500324E-30	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2 )
1.76450900E-30	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3 )
2.72289100E-29	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1 )
5.61237886E-28	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2 )
2.56044127E-28	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3 )
1.40779845E-27	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1 )
6.65780404E-26	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2 )
3.98717420E-23	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3 )
4.32309662E-26	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5 )
1.00881382E-21	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7 )
7.95445203E-26	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1 )
1.11881391E-25	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2 )
2.86635682E-23	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3 )
1.28994433E-22	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4 )
3.64351375E-26	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6 )
4.70601700E-22	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7 )
1.43398769E-13	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1 )
2.01691341E-13	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2 )
5.16455158E-11	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3 )
2.31725564E-10	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4 )
1.08487841E-19	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5 )
1.60535195E-21	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6 )
8.14872437E-24	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7 )
3.38592414E-24	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1 )
3.31120114E-25	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2 )
6.07899627E-24	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3 )
1.61736047E-22	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm )
1.19911715E-23	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm )
9.83313421E-23	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm )
8.24732470E-24	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm )
1.02782804E-22	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm )
1.83001361E-10	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm )
6.68610149E-25	2	2000016	-24	# BR(Hpm_8 -> hh_8 Vwm )
1.00396038E-22	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ )
1.78353637E-10	2	2000011	23	# BR(Hpm_8 -> Hpm_4 VZ )
1.02954555E-24	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ )
2.25924314E-27	2	-24	23	# BR(Hpm_8 -> Vwm VZ )