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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 25.09.2019, 13:05
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 2.24883008E+00 # TanBeta
Block EXTPAR # Input parameters
  65 4.93170102E+02 # vR1Input
  66 4.93170102E+02 # vR2Input
  67 4.93170102E+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 8.00951967E+05 # mHd2
  22 6.68199669E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 9.68044542E+01 # vd
  103 2.17696769E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 3.49673541E-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 6.63173953E-04 # 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 3.43644675E-02 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 7.02934712E-06 # 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 1.48570892E-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      2.52570520E-02 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      3.93355758E-01 # Real(lam(1),dp)
  2      3.93355758E-01 # Real(lam(2),dp)
  3      3.93355758E-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      6.56509285E-06 # Real(Yu(1,1),dp)
  1 2      1.51850279E-06 # Real(Yu(1,2),dp)
  1 3      2.30791789E-08 # Real(Yu(1,3),dp)
  2 1     -7.39948419E-04 # Real(Yu(2,1),dp)
  2 2      3.19703613E-03 # Real(Yu(2,2),dp)
  2 3      1.35263603E-04 # Real(Yu(2,3),dp)
  3 1      5.48375252E-03 # Real(Yu(3,1),dp)
  3 2     -3.77114163E-02 # Real(Yu(3,2),dp)
  3 3      9.21330290E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      7.95827066E-02 # 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      8.11743592E-02 # 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      8.27660119E-02 # 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      4.18040352E+02 # Real(Tlam(1) ,dp)
  2      4.18040352E+02 # Real(Tlam(2) ,dp)
  3      4.18040352E+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     -2.94426553E+02 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1    -5.14836178E-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     -5.14836178E-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     -5.14836178E-01 # Real(Tk(3,3,3),dp)
Block MSQ2 # (SUSY Scale)
  1 1      1.00000000E+06 # Real(mq2(1,1),dp)
  1 2      0.00000000E+00 # Real(mq2(1,2),dp)
  1 3      0.00000000E+00 # Real(mq2(1,3),dp)
  2 1      0.00000000E+00 # Real(mq2(2,1),dp)
  2 2      1.00000000E+06 # Real(mq2(2,2),dp)
  2 3      0.00000000E+00 # Real(mq2(2,3),dp)
  3 1      0.00000000E+00 # Real(mq2(3,1),dp)
  3 2      0.00000000E+00 # Real(mq2(3,2),dp)
  3 3      2.05438424E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      5.21851577E+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      1.94645189E+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      3.08301295E+04 # Real(ml2(3,3),dp)
Block MSD2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(md2(1,1),dp)
1 2      0.00000000E+00 # Real(md2(1,2),dp)
1 3      0.00000000E+00 # Real(md2(1,3),dp)
2 1      0.00000000E+00 # Real(md2(2,1),dp)
2 2      1.00000000E+06 # Real(md2(2,2),dp)
2 3      0.00000000E+00 # Real(md2(2,3),dp)
3 1      0.00000000E+00 # Real(md2(3,1),dp)
3 2      0.00000000E+00 # Real(md2(3,2),dp)
3 3      1.00000000E+06 # Real(md2(3,3),dp)
Block MSU2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(mu2(1,1),dp)
1 2      0.00000000E+00 # Real(mu2(1,2),dp)
1 3      0.00000000E+00 # Real(mu2(1,3),dp)
2 1      0.00000000E+00 # Real(mu2(2,1),dp)
2 2      1.00000000E+06 # Real(mu2(2,2),dp)
2 3      0.00000000E+00 # Real(mu2(2,3),dp)
3 1      0.00000000E+00 # Real(mu2(3,1),dp)
3 2      0.00000000E+00 # Real(mu2(3,2),dp)
3 3      2.05438424E+06 # Real(mu2(3,3),dp)
Block MSE2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(me2(1,1),dp)
1 2      0.00000000E+00 # Real(me2(1,2),dp)
1 3      0.00000000E+00 # Real(me2(1,3),dp)
2 1      0.00000000E+00 # Real(me2(2,1),dp)
2 2      1.00000000E+06 # Real(me2(2,2),dp)
2 3      0.00000000E+00 # Real(me2(2,3),dp)
3 1      0.00000000E+00 # Real(me2(3,1),dp)
3 2      0.00000000E+00 # Real(me2(3,2),dp)
3 3      1.00000000E+06 # Real(me2(3,3),dp)
Block mv2 # (SUSY Scale)
1 1      1.27860050E+04 # 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      1.27483455E+04 # 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      1.27094464E+04 # 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      4.93170102E+02 # vR(1)
2      4.93170102E+02 # vR(2)
3      4.93170102E+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      1.00019365E+03 # Sd_1
1000003      1.00020073E+03 # Sd_2
1000005      1.00020120E+03 # Sd_3
2000001      1.00113926E+03 # Sd_4
2000003      1.00113972E+03 # Sd_5
2000005      1.43411653E+03 # Sd_6
1000002      9.99060839E+02 # Su_1
1000004      9.99073371E+02 # Su_2
1000006      9.99597483E+02 # Su_3
2000002      9.99601689E+02 # Su_4
2000004      1.41488416E+03 # Su_5
2000006      1.46439532E+03 # Su_6
      25      1.23193201E+02 # hh_1
      35      1.25980751E+02 # hh_2
1000012      1.26551466E+02 # hh_3
1000014      1.39948311E+02 # hh_4
1000016      2.12711475E+02 # hh_5

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2000012      4.60611996E+02 # hh_6
2000014      7.37658829E+02 # hh_7
2000016      1.08804043E+03 # hh_8
   36      7.72569518E+01 # Ah_2
1000017      1.26196282E+02 # Ah_3
1000018      1.26419448E+02 # Ah_4
1000019      2.12711475E+02 # Ah_5
2000018      4.60611996E+02 # Ah_6
2000019      7.37658829E+02 # Ah_7
2000020      1.08545893E+03 # Ah_8
   37      2.21364149E+02 # Hpm_2
1000011      4.63760455E+02 # Hpm_3
2000011      7.37702872E+02 # Hpm_4
1000013      1.00366031E+03 # Hpm_5
2000013      1.00369438E+03 # Hpm_6
1000015      1.00369444E+03 # Hpm_7
2000015      1.08320133E+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      7.79572595E-12 # Chi_1
   14      2.62786623E-11 # Chi_2
   16      7.23354431E-11 # Chi_3
1000022      5.59271919E+01 # Chi_4
1000023      5.72065680E+01 # Chi_5
1000025      7.67227268E+01 # Chi_6
1000039      4.11388481E+02 # Chi_7
1000045      4.36414450E+02 # Chi_8
1000055      8.89200205E+02 # Chi_9
1000065      1.77175621E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      4.10334312E+02 # Cha_4
1000037      1.77182841E+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      4.41944369E-03 # 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      -9.99990234E-01 # Real(ZD(1,6),dp)
 2 1      -1.45674510E-13 # Real(ZD(2,1),dp)
 2 2      2.23602693E-02 # Real(ZD(2,2),dp)
 2 3      0.00000000E+00 # Real(ZD(2,3),dp)
 2 4      -1.23527074E-10 # Real(ZD(2,4),dp)
 2 5      9.99749978E-01 # Real(ZD(2,5),dp)
 2 6      0.00000000E+00 # Real(ZD(2,6),dp)
 3 1      1.17987862E-03 # Real(ZD(3,1),dp)
 3 2      2.78484055E-12 # Real(ZD(3,2),dp)
 3 3      0.00000000E+00 # Real(ZD(3,3),dp)
 3 4      9.99999304E-01 # Real(ZD(3,4),dp)
 3 5      1.23495766E-10 # Real(ZD(3,5),dp)
 3 6      0.00000000E+00 # Real(ZD(3,6),dp)
 4 1      -9.99999304E-01 # Real(ZD(4,1),dp)
 4 2      5.36354214E-14 # Real(ZD(4,2),dp)
 4 3      0.00000000E+00 # Real(ZD(4,3),dp)
 4 4      1.17987862E-03 # Real(ZD(4,4),dp)
 4 5      -1.12704089E-15 # Real(ZD(4,5),dp)
 4 6      0.00000000E+00 # Real(ZD(4,6),dp)
 5 1      -5.36204318E-14 # Real(ZD(5,1),dp)
 5 2      -9.99749978E-01 # Real(ZD(5,2),dp)
 5 3      -0.00000000E+00 # Real(ZD(5,3),dp)
 5 4      2.28070042E-14 # Real(ZD(5,4),dp)
 5 5      2.23602693E-02 # Real(ZD(5,5),dp)
 5 6      -0.00000000E+00 # Real(ZD(5,6),dp)
 6 1      0.00000000E+00 # Real(ZD(6,1),dp)

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6 2      0.00000000E+00 # Real(ZD(6,2),dp)
6 3      9.99990234E-01 # Real(ZD(6,3),dp)
6 4      0.00000000E+00 # Real(ZD(6,4),dp)
6 5      0.00000000E+00 # Real(ZD(6,5),dp)
6 6      4.41944369E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -9.92869405E-01 # Real(ZU(1,1),dp)
1 2     -1.18842591E-01 # Real(ZU(1,2),dp)
1 3      1.80031868E-05 # Real(ZU(1,3),dp)
1 4     -1.75928955E-04 # Real(ZU(1,4),dp)
1 5      9.31406215E-03 # Real(ZU(1,5),dp)
1 6     -2.40249470E-05 # Real(ZU(1,6),dp)
2 1      1.17585189E-01 # Real(ZU(2,1),dp)
2 2     -9.89211717E-01 # Real(ZU(2,2),dp)
2 3     -7.08564188E-04 # Real(ZU(2,3),dp)
2 4     -1.96350801E-05 # Real(ZU(2,4),dp)
2 5     -8.73642011E-02 # Real(ZU(2,5),dp)
2 6      9.46918172E-04 # Real(ZU(2,6),dp)
3 1      1.72457877E-04 # Real(ZU(3,1),dp)
3 2      3.99281742E-05 # Real(ZU(3,2),dp)
3 3      9.87006499E-09 # Real(ZU(3,3),dp)
3 4     -9.99999984E-01 # Real(ZU(3,4),dp)
3 5      4.76320815E-06 # Real(ZU(3,5),dp)
3 6     -1.40265098E-08 # Real(ZU(3,6),dp)
4 1      1.95961633E-02 # Real(ZU(4,1),dp)
4 2     -8.56459885E-02 # Real(ZU(4,2),dp)
4 3     -5.87887511E-05 # Real(ZU(4,3),dp)
4 4      4.70461143E-06 # Real(ZU(4,4),dp)
4 5      9.96132895E-01 # Real(ZU(4,5),dp)
4 6      8.35880729E-05 # Real(ZU(4,6),dp)
5 1      2.37322785E-05 # Real(ZU(5,1),dp)
5 2     -1.63200910E-04 # Real(ZU(5,2),dp)
5 3     -7.09847832E-01 # Real(ZU(5,3),dp)
5 4      4.62823098E-10 # Real(ZU(5,4),dp)
5 5      2.71253813E-06 # Real(ZU(5,5),dp)
5 6     -7.04355044E-01 # Real(ZU(5,6),dp)
6 1     -1.69218442E-04 # Real(ZU(6,1),dp)
6 2      1.16370811E-03 # Real(ZU(6,2),dp)
6 3     -7.04354705E-01 # Real(ZU(6,3),dp)
6 4      3.83692650E-10 # Real(ZU(6,4),dp)
6 5      2.24876607E-06 # Real(ZU(6,5),dp)
6 6      7.09847214E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1      3.74637448E-01 # ZH(1,1)
1 2      8.85405898E-01 # ZH(1,2)
1 3     -2.35681592E-01 # ZH(1,3)
1 4     -1.30799508E-01 # ZH(1,4)
1 5     -5.52164246E-02 # ZH(1,5)
1 6      5.54609615E-07 # ZH(1,6)
1 7      1.67968300E-06 # ZH(1,7)
1 8      3.67802137E-06 # ZH(1,8)
2 1      3.79525063E-02 # ZH(2,1)
2 2      8.74422129E-02 # ZH(2,2)
2 3      7.68020724E-01 # ZH(2,3)
2 4     -6.06966037E-01 # ZH(2,4)
2 5     -1.80692735E-01 # ZH(2,5)
2 6      2.97385352E-07 # ZH(2,6)
2 7     -3.41248315E-07 # ZH(2,7)
2 8      9.24055806E-08 # ZH(2,8)
3 1      3.47000123E-02 # ZH(3,1)
3 2      7.94181961E-02 # ZH(3,2)
3 3      2.35584568E-01 # ZH(3,3)
3 4      5.49035478E-01 # ZH(3,4)
3 5     -7.97213030E-01 # ZH(3,5)
3 6      1.28695002E-07 # ZH(3,6)
3 7      6.25636701E-07 # ZH(3,7)
3 8     -9.72843977E-07 # ZH(3,8)
4 1      1.62846939E-01 # ZH(4,1)
4 2      1.94340283E-01 # ZH(4,2)
4 3      5.45320896E-01 # ZH(4,3)
4 4      5.57957385E-01 # ZH(4,4)
4 5      5.71857854E-01 # ZH(4,5)
4 6      3.14598860E-07 # ZH(4,6)

```

4	7	9.45610718E-07	# ZH(4,7)
4	8	2.14800601E-06	# ZH(4,8)
5	1	-1.73617313E-06	# ZH(5,1)
5	2	-3.58758804E-06	# ZH(5,2)
5	3	-1.44529923E-07	# ZH(5,3)
5	4	-1.25434436E-07	# ZH(5,4)
5	5	-1.78236669E-06	# ZH(5,5)
5	6	-2.75859755E-12	# ZH(5,6)
5	7	-8.84957719E-12	# ZH(5,7)
5	8	1.00000000E+00	# ZH(5,8)
6	1	-8.77011365E-07	# ZH(6,1)
6	2	-1.65301189E-06	# ZH(6,2)
6	3	-1.22381771E-09	# ZH(6,3)
6	4	-8.54655566E-07	# ZH(6,4)
6	5	-7.02367721E-09	# ZH(6,5)
6	6	-1.88460369E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	1.27670905E-12	# ZH(6,8)
7	1	-4.34468720E-07	# ZH(7,1)
7	2	-5.17375054E-07	# ZH(7,2)
7	3	-2.92287417E-07	# ZH(7,3)
7	4	1.41381945E-08	# ZH(7,4)
7	5	1.43423441E-08	# ZH(7,5)
7	6	1.00000000E+00	# ZH(7,6)
7	7	6.60047727E-13	# ZH(7,7)
7	8	1.33248447E-13	# ZH(7,8)
8	1	9.11308495E-01	# ZH(8,1)
8	2	-4.05382362E-01	# ZH(8,2)
8	3	-4.15136996E-02	# ZH(8,3)
8	4	-4.15610236E-02	# ZH(8,4)
8	5	-4.16084309E-02	# ZH(8,5)
8	6	1.75250742E-07	# ZH(8,6)
8	7	9.32626344E-08	# ZH(8,7)
8	8	4.24697767E-08	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	-4.06799243E-01	# ZA(1,1)
1	2	9.13491484E-01	# ZA(1,2)
1	3	-4.02193312E-03	# ZA(1,3)
1	4	-3.98601458E-03	# ZA(1,4)
1	5	-3.95217569E-03	# ZA(1,5)
1	6	-6.22021309E-07	# ZA(1,6)
1	7	-1.66504444E-06	# ZA(1,7)
1	8	-2.22053598E-06	# ZA(1,8)
2	1	8.34104569E-02	# ZA(2,1)
2	2	4.46700182E-02	# ZA(2,2)
2	3	5.78872354E-01	# ZA(2,3)
2	4	5.74736192E-01	# ZA(2,4)
2	5	5.70642088E-01	# ZA(2,5)
2	6	1.45888893E-07	# ZA(2,6)
2	7	3.97967106E-07	# ZA(2,7)
2	8	5.79851591E-07	# ZA(2,8)
3	1	3.01279098E-04	# ZA(3,1)
3	2	1.26451787E-04	# ZA(3,2)
3	3	-7.85697480E-01	# ZA(3,3)
3	4	5.81347962E-01	# ZA(3,4)
3	5	2.11456639E-01	# ZA(3,5)
3	6	-2.45258051E-07	# ZA(3,6)
3	7	5.14171023E-07	# ZA(3,7)
3	8	3.59894483E-07	# ZA(3,8)
4	1	-3.00472509E-04	# ZA(4,1)
4	2	-1.27183684E-04	# ZA(4,2)
4	3	2.11175044E-01	# ZA(4,3)
4	4	5.73348548E-01	# ZA(4,4)
4	5	-7.91628977E-01	# ZA(4,5)
4	6	6.59968805E-08	# ZA(4,6)
4	7	5.07783524E-07	# ZA(4,7)
4	8	-1.35129254E-06	# ZA(4,8)
5	1	-9.77311652E-07	# ZA(5,1)
5	2	1.99115490E-06	# ZA(5,2)
5	3	2.25042682E-07	# ZA(5,3)
5	4	2.24929327E-07	# ZA(5,4)
5	5	-1.48398538E-06	# ZA(5,5)
5	6	-1.38167439E-12	# ZA(5,6)

5	7	-4.04896973E-12	# ZA(5,7)
5	8	1.00000000E+00	# ZA(5,8)
6	1	-7.78834256E-07	# ZA(6,1)
6	2	1.47286491E-06	# ZA(6,2)
6	3	6.37779640E-08	# ZA(6,3)
6	4	-8.21321733E-07	# ZA(6,4)
6	5	6.36597581E-08	# ZA(6,5)
6	6	-1.59303645E-12	# ZA(6,6)
6	7	1.00000000E+00	# ZA(6,7)
6	8	6.19960482E-13	# ZA(6,8)
7	1	-4.10807003E-07	# ZA(7,1)
7	2	4.96966878E-07	# ZA(7,2)
7	3	-2.84852536E-07	# ZA(7,3)
7	4	2.71398463E-08	# ZA(7,4)
7	5	2.71136554E-08	# ZA(7,5)
7	6	1.00000000E+00	# ZA(7,6)
7	7	5.79998998E-13	# ZA(7,7)
7	8	8.89045781E-14	# ZA(7,8)
8	1	9.09701539E-01	# ZA(8,1)
8	2	4.04398152E-01	# ZA(8,2)
8	3	-5.45453187E-02	# ZA(8,3)
8	4	-5.44831315E-02	# ZA(8,4)
8	5	-5.44209584E-02	# ZA(8,5)
8	6	1.60156119E-07	# ZA(8,6)
8	7	7.50779073E-08	# ZA(8,7)
8	8	2.76125237E-08	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	-4.06170363E-01	# ZP(1,1)
1	2	9.13797372E-01	# ZP(1,2)
1	3	-6.29002838E-07	# ZP(1,3)
1	4	-1.67899665E-06	# ZP(1,4)
1	5	-2.28165335E-06	# ZP(1,5)
1	6	2.85796236E-16	# ZP(1,6)
1	7	3.81556883E-13	# ZP(1,7)
1	8	-2.65920765E-11	# ZP(1,8)
2	1	9.61655596E-07	# ZP(2,1)
2	2	-2.06944757E-06	# ZP(2,2)
2	3	1.55054276E-12	# ZP(2,3)
2	4	4.95868375E-12	# ZP(2,4)
2	5	-9.99999312E-01	# ZP(2,5)
2	6	6.31024135E-20	# ZP(2,6)
2	7	2.98595386E-16	# ZP(2,7)
2	8	1.17268130E-03	# ZP(2,8)
3	1	-7.62138327E-07	# ZP(3,1)
3	2	1.49862396E-06	# ZP(3,2)
3	3	-1.69460231E-12	# ZP(3,3)
3	4	9.99999993E-01	# ZP(3,4)
3	5	1.12443435E-12	# ZP(3,5)
3	6	-2.28683540E-18	# ZP(3,6)
3	7	1.19819883E-04	# ZP(3,7)
3	8	-8.79949583E-15	# ZP(3,8)
4	1	4.07148819E-07	# ZP(4,1)
4	2	-5.07367463E-07	# ZP(4,2)
4	3	-1.00000000E+00	# ZP(4,3)
4	4	-6.24103668E-13	# ZP(4,4)
4	5	-1.09025439E-13	# ZP(4,5)
4	6	-9.58757539E-07	# ZP(4,6)
4	7	-2.97286288E-16	# ZP(4,7)
4	8	9.28764441E-15	# ZP(4,8)
5	1	8.46146611E-08	# ZP(5,1)
5	2	4.05672122E-08	# ZP(5,2)
5	3	2.30280629E-14	# ZP(5,3)
5	4	1.11367950E-14	# ZP(5,4)
5	5	1.17268130E-03	# ZP(5,5)
5	6	8.79693941E-16	# ZP(5,6)
5	7	3.10210013E-13	# ZP(5,7)
5	8	9.99999312E-01	# ZP(5,8)
6	1	6.50205085E-10	# ZP(6,1)
6	2	6.84345323E-11	# ZP(6,2)
6	3	3.92222408E-15	# ZP(6,3)
6	4	-1.19819883E-04	# ZP(6,4)
6	5	-1.54813860E-16	# ZP(6,5)
6	6	-4.08044707E-09	# ZP(6,6)

6	7	9.99999993E-01	# ZP(6,7)
6	8	-3.10266477E-13	# ZP(6,8)
7	1	1.81977608E-12	# ZP(7,1)
7	2	1.48577783E-13	# ZP(7,2)
7	3	-9.58757539E-07	# ZP(7,3)
7	4	-4.88915859E-13	# ZP(7,4)
7	5	-8.71709086E-19	# ZP(7,5)
7	6	1.00000000E+00	# ZP(7,6)
7	7	4.08044689E-09	# ZP(7,7)
7	8	-8.79832532E-16	# ZP(7,8)
8	1	9.13797372E-01	# ZP(8,1)
8	2	4.06170363E-01	# ZP(8,2)
8	3	1.65973894E-07	# ZP(8,3)
8	4	8.77434343E-08	# ZP(8,4)
8	5	3.81000656E-08	# ZP(8,5)
8	6	-1.56390152E-12	# ZP(8,6)
8	7	-6.11438372E-10	# ZP(8,7)
8	8	-9.38425981E-08	# 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	4.31807423E-07	# Real(UV(4,1), dp)
4	2	-6.22104303E-07	# Real(UV(4,2), dp)
4	3	-3.18546544E-08	# Real(UV(4,3), dp)
4	4	3.27456531E-04	# Real(UV(4,4), dp)
4	5	-2.54016244E-04	# Real(UV(4,5), dp)
4	6	-2.16173286E-03	# Real(UV(4,6), dp)
4	7	-7.02414550E-03	# Real(UV(4,7), dp)
4	8	8.08134344E-01	# Real(UV(4,8), dp)
4	9	-5.51893970E-01	# Real(UV(4,9), dp)
4	10	-2.05615526E-01	# Real(UV(4,10), dp)
5	1	-1.06018933E-07	# Real(UV(5,1), dp)
5	2	-6.24892425E-07	# Real(UV(5,2), dp)
5	3	1.06284809E-07	# Real(UV(5,3), dp)
5	4	-3.39598351E-04	# Real(UV(5,4), dp)
5	5	2.63257322E-04	# Real(UV(5,5), dp)
5	6	2.21438973E-03	# Real(UV(5,6), dp)
5	7	7.26362375E-03	# Real(UV(5,7), dp)
5	8	-2.16632695E-01	# Real(UV(5,8), dp)
5	9	-6.03264430E-01	# Real(UV(5,9), dp)
5	10	7.67518374E-01	# Real(UV(5,10), dp)
6	1	1.87449915E-08	# Real(UV(6,1), dp)
6	2	1.72782220E-08	# Real(UV(6,2), dp)
6	3	3.33374890E-08	# Real(UV(6,3), dp)
6	4	-1.13178246E-02	# Real(UV(6,4), dp)

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6 5      8.68491422E-03 # Real(UV(6,5),dp)
6 6      6.01281279E-02 # Real(UV(6,6),dp)
6 7      2.31610490E-01 # Real(UV(6,7),dp)
6 8     -5.29871104E-01 # Real(UV(6,8),dp)
6 9     -5.58832585E-01 # Real(UV(6,9),dp)
6 10    -5.91168693E-01 # Real(UV(6,10),dp)
7 1     -1.36952335E-07 # Real(UV(7,1),dp)
7 2     -2.79796574E-07 # Real(UV(7,2),dp)
7 3     -7.48719898E-08 # Real(UV(7,3),dp)
7 4      8.09426198E-02 # Real(UV(7,4),dp)
7 5     -5.29169591E-02 # Real(UV(7,5),dp)
7 6      7.11701161E-01 # Real(UV(7,6),dp)
7 7     -6.85207646E-01 # Real(UV(7,7),dp)
7 8     -6.95922945E-02 # Real(UV(7,8),dp)
7 9     -6.98086591E-02 # Real(UV(7,9),dp)
7 10    -7.00263648E-02 # 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      2.37238888E-08 # Real(UV(9,1),dp)
9 2      6.71525769E-08 # Real(UV(9,2),dp)
9 3      1.05356944E-07 # Real(UV(9,3),dp)
9 4     -9.96591210E-01 # Real(UV(9,4),dp)
9 5     -7.17904903E-03 # Real(UV(9,5),dp)
9 6      4.94090003E-02 # Real(UV(9,6),dp)
9 7     -6.56663083E-02 # Real(UV(9,7),dp)
9 8     -6.07057123E-04 # Real(UV(9,8),dp)
9 9     -6.07895856E-04 # Real(UV(9,9),dp)
9 10    -6.08736682E-04 # Real(UV(9,10),dp)
10 1     -2.59451746E-08 # Real(UV(10,1),dp)
10 2     -7.06370746E-08 # Real(UV(10,2),dp)
10 3     -1.01523383E-07 # Real(UV(10,3),dp)
10 4      2.64135887E-03 # Real(UV(10,4),dp)
10 5     -9.98457890E-01 # Real(UV(10,5),dp)
10 6     -2.88654154E-02 # Real(UV(10,6),dp)
10 7      4.73429768E-02 # Real(UV(10,7),dp)
10 8      3.14099018E-04 # Real(UV(10,8),dp)
10 9      3.14354407E-04 # Real(UV(10,9),dp)
10 10     3.14610069E-04 # Real(UV(10,10),dp)
Block IMUVMIX # ( )
1 1     -8.22363356E-01 # Aimag(UV(1,1))
1 2     -2.56025767E-01 # Aimag(UV(1,2))
1 3      5.08103649E-01 # Aimag(UV(1,3))
1 4      6.69332782E-09 # Aimag(UV(1,4))
1 5     -6.20076092E-09 # Aimag(UV(1,5))
1 6     -2.07570026E-07 # Aimag(UV(1,6))
1 7     -7.86922147E-10 # Aimag(UV(1,7))
1 8      2.27804831E-07 # Aimag(UV(1,8))
1 9      5.58927201E-08 # Aimag(UV(1,9))
1 10    -2.83564574E-07 # Aimag(UV(1,10))
2 1      5.68907970E-01 # Aimag(UV(2,1))
2 2     -3.57635162E-01 # Aimag(UV(2,2))
2 3      7.40567898E-01 # Aimag(UV(2,3))
2 4      7.02842030E-08 # Aimag(UV(2,4))
2 5     -6.59246607E-08 # Aimag(UV(2,5))
2 6      2.50263637E-08 # Aimag(UV(2,6))
2 7     -1.29835521E-08 # Aimag(UV(2,7))
2 8     -2.92306923E-07 # Aimag(UV(2,8))
2 9      4.06652882E-07 # Aimag(UV(2,9))
2 10    -7.79180175E-08 # Aimag(UV(2,10))
3 1      7.88873316E-03 # Aimag(UV(3,1))
3 2     -8.98080118E-01 # Aimag(UV(3,2))
3 3     -4.39761151E-01 # Aimag(UV(3,3))
3 4     -1.27041068E-07 # Aimag(UV(3,4))
3 5      1.19233341E-07 # Aimag(UV(3,5))
3 6     -3.57824769E-07 # Aimag(UV(3,6))

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3 7 2.53914949E-08 # Aimag(UV(3,7))
3 8 -3.79260943E-07 # Aimag(UV(3,8))
3 9 6.02111415E-07 # Aimag(UV(3,9))
3 10 -3.02301168E-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 1.24038705E-07 # Aimag(UV(8,1))
8 2 2.47684822E-07 # Aimag(UV(8,2))
8 3 3.95416065E-08 # Aimag(UV(8,3))
8 4 1.09069035E-02 # Aimag(UV(8,4))
8 5 -1.24313321E-02 # Aimag(UV(8,5))
8 6 -6.97554319E-01 # Aimag(UV(8,6))
8 7 -6.85705143E-01 # Aimag(UV(8,7))
8 8 -1.19925879E-01 # Aimag(UV(8,8))
8 9 -1.19655750E-01 # Aimag(UV(8,9))
8 10 -1.19386831E-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      2.14396381E-06 # Real(ZER(1,2),dp)
  1 3      6.22093887E-09 # Real(ZER(1,3),dp)
  1 4     -4.41962552E-08 # Real(ZER(1,4),dp)
  1 5      1.85510730E-07 # Real(ZER(1,5),dp)
  2 1      2.14396388E-06 # Real(ZER(2,1),dp)
  2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
  2 3     -1.63676776E-08 # Real(ZER(2,3),dp)
  2 4      1.15016023E-07 # Real(ZER(2,4),dp)
  2 5     -3.74786853E-07 # Real(ZER(2,5),dp)
  3 1     -6.22092509E-09 # Real(ZER(3,1),dp)
  3 2     -1.63677383E-08 # Real(ZER(3,2),dp)
  3 3      1.00000000E+00 # Real(ZER(3,3),dp)
  3 4     -1.46672653E-07 # Real(ZER(3,4),dp)
  3 5      8.15712689E-08 # Real(ZER(3,5),dp)
  4 1      1.87155678E-07 # Real(ZER(4,1),dp)
  4 2      3.79159728E-07 # Real(ZER(4,2),dp)
  4 3      8.74759476E-08 # Real(ZER(4,3),dp)
  4 4      4.07187187E-02 # Real(ZER(4,4),dp)
  4 5     -9.99170649E-01 # Real(ZER(4,5),dp)
  5 1      3.66056272E-08 # Real(ZER(5,1),dp)
  5 2      9.96598698E-08 # Real(ZER(5,2),dp)
  5 3      1.43229534E-07 # Real(ZER(5,3),dp)
  5 4      9.99170649E-01 # Real(ZER(5,4),dp)
  5 5      4.07187187E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
  1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
  1 2      3.50462088E-14 # Real(ZEL(1,2),dp)
  1 3      2.69334384E-15 # Real(ZEL(1,3),dp)
  1 4     -1.28250224E-13 # Real(ZEL(1,4),dp)
  1 5      2.02264911E-12 # Real(ZEL(1,5),dp)
  2 1      3.50463673E-14 # Real(ZEL(2,1),dp)
  2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
  2 3     -1.48730569E-12 # Real(ZEL(2,3),dp)
  2 4      7.08445472E-11 # Real(ZEL(2,4),dp)
  2 5     -1.11298907E-09 # Real(ZEL(2,5),dp)
  3 1     -2.69339173E-15 # Real(ZEL(3,1),dp)
  3 2     -1.48734678E-12 # Real(ZEL(3,2),dp)
  3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
  3 4     -1.53277602E-09 # Real(ZEL(3,4),dp)
  3 5      2.41206983E-08 # Real(ZEL(3,5),dp)
  4 1      2.02669764E-12 # Real(ZEL(4,1),dp)
  4 2      1.11523511E-09 # Real(ZEL(4,2),dp)
  4 3      2.41692027E-08 # Real(ZEL(4,3),dp)
  4 4      6.69044490E-02 # Real(ZEL(4,4),dp)
  4 5     -9.97759387E-01 # Real(ZEL(4,5),dp)
  5 1     -7.36135906E-15 # Real(ZEL(5,1),dp)
  5 2     -3.77810844E-12 # Real(ZEL(5,2),dp)
  5 3     -8.44403717E-11 # Real(ZEL(5,3),dp)
  5 4      9.97759387E-01 # Real(ZEL(5,4),dp)
  5 5      6.69044490E-02 # Real(ZEL(5,5),dp)
Block UDLMIX # ( )
  1 1      1.00000000E+00 # Real(ZDL(1,1),dp)
  1 2      0.00000000E+00 # Real(ZDL(1,2),dp)
  1 3      0.00000000E+00 # Real(ZDL(1,3),dp)
  2 1      0.00000000E+00 # Real(ZDL(2,1),dp)
  2 2      1.00000000E+00 # Real(ZDL(2,2),dp)
  2 3      0.00000000E+00 # Real(ZDL(2,3),dp)
  3 1      0.00000000E+00 # Real(ZDL(3,1),dp)
  3 2      0.00000000E+00 # Real(ZDL(3,2),dp)
  3 3      1.00000000E+00 # Real(ZDL(3,3),dp)
Block UDRMIX # ( )
  1 1      1.00000000E+00 # Real(ZDR(1,1),dp)
  1 2      0.00000000E+00 # Real(ZDR(1,2),dp)
  1 3      0.00000000E+00 # Real(ZDR(1,3),dp)
  2 1      0.00000000E+00 # Real(ZDR(2,1),dp)
  2 2      1.00000000E+00 # Real(ZDR(2,2),dp)
  2 3      0.00000000E+00 # Real(ZDR(2,3),dp)
  3 1      0.00000000E+00 # Real(ZDR(3,1),dp)
  3 2      0.00000000E+00 # Real(ZDR(3,2),dp)
  3 3      1.00000000E+00 # Real(ZDR(3,3),dp)

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Block UULMIX # ( )
 1 1 9.74272160E-01 # Real(ZUL(1,1),dp)
 1 2 2.25348678E-01 # Real(ZUL(1,2),dp)
 1 3 3.42499367E-03 # Real(ZUL(1,3),dp)
 2 1 -2.25296231E-01 # Real(ZUL(2,1),dp)
 2 2 9.73419462E-01 # Real(ZUL(2,2),dp)
 2 3 4.11844653E-02 # Real(ZUL(2,3),dp)
 3 1 5.94690932E-03 # Real(ZUL(3,1),dp)
 3 2 -4.08965161E-02 # Real(ZUL(3,2),dp)
 3 3 9.99145690E-01 # Real(ZUL(3,3),dp)
Block UURMIX # ( )
 1 1 1.00000000E+00 # Real(ZUR(1,1),dp)
 1 2 -5.42101086E-20 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 5.42101086E-20 # Real(ZUR(2,1),dp)
 2 2 1.00000000E+00 # Real(ZUR(2,2),dp)
 2 3 0.00000000E+00 # Real(ZUR(2,3),dp)
 3 1 0.00000000E+00 # Real(ZUR(3,1),dp)
 3 2 0.00000000E+00 # Real(ZUR(3,2),dp)
 3 3 1.00000000E+00 # Real(ZUR(3,3),dp)
DECAY 25 2.74607561E-03 # hh_1
# BR NDA ID1 ID2
3.02356151E-03 2 22 22 # BR(hh_1 -> VP VP )
1.19191555E-01 2 21 21 # BR(hh_1 -> VG VG )
2.31500194E-02 2 23 23 # BR(hh_1 -> VZ VZ )
2.25125071E-01 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
6.18951682E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
1.12979367E-30 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
2.90390228E-26 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
1.12979367E-30 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
2.76498202E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
1.51332770E-25 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
2.90390228E-26 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
1.51332770E-25 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
7.98086335E-02 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
4.48952459E-24 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
1.46258593E-24 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
4.73625060E-24 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
3.22405752E-12 2 12 1000022 # BR(hh_1 -> Chi_1 Chi_4 )
6.00868648E-12 2 12 1000023 # BR(hh_1 -> Chi_1 Chi_5 )
1.84278075E-14 2 12 1000025 # BR(hh_1 -> Chi_1 Chi_6 )
7.60798396E-23 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
1.23742908E-23 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
1.38773368E-11 2 14 1000022 # BR(hh_1 -> Chi_2 Chi_4 )
3.88873565E-12 2 14 1000023 # BR(hh_1 -> Chi_2 Chi_5 )
3.08703454E-13 2 14 1000025 # BR(hh_1 -> Chi_2 Chi_6 )
4.29878459E-22 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
2.38341836E-11 2 16 1000022 # BR(hh_1 -> Chi_3 Chi_4 )
1.69987805E-11 2 16 1000023 # BR(hh_1 -> Chi_3 Chi_5 )
9.50192303E-13 2 16 1000025 # BR(hh_1 -> Chi_3 Chi_6 )
3.19041811E-02 2 1000022 1000022 # BR(hh_1 -> Chi_4 Chi_4 )
3.11108074E-05 2 1000022 1000023 # BR(hh_1 -> Chi_4 Chi_5 )
4.89907724E-03 2 1000023 1000023 # BR(hh_1 -> Chi_5 Chi_5 )
5.06511010E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
1.82187344E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
4.87454607E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
1.05062313E-07 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
4.20161309E-30 2 -2 4 # BR(hh_1 -> Fu_1^* Fu_2 )
4.20332417E-30 2 -4 2 # BR(hh_1 -> Fu_2^* Fu_1 )
2.49528800E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 1.05020513E-03 # hh_2
# BR NDA ID1 ID2
8.41772298E-05 2 22 22 # BR(hh_2 -> VP VP )
3.26665029E-03 2 21 21 # BR(hh_2 -> VG VG )
8.83912712E-04 2 23 23 # BR(hh_2 -> VZ VZ )
7.95296729E-03 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
1.69852172E-10 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
3.67165398E-30 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
1.55140581E-26 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
3.67165398E-30 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
7.58764064E-06 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
6.06969202E-26 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
1.55140581E-26 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )

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6.06969202E-26	2		-15	13	# BR(hh_2 -> Cha_3^* Cha_2)
2.19022116E-03	2		-15	15	# BR(hh_2 -> Cha_3^* Cha_3)
1.89688590E-26	2		12	12	# BR(hh_2 -> Chi_1 Chi_1)
5.70485884E-26	2		12	14	# BR(hh_2 -> Chi_1 Chi_2)
2.48595329E-24	2		12	16	# BR(hh_2 -> Chi_1 Chi_3)
4.73368962E-13	2		12	1000022	# BR(hh_2 -> Chi_1 Chi_4)
2.58646143E-13	2		12	1000023	# BR(hh_2 -> Chi_1 Chi_5)
1.11919981E-12	2		12	1000025	# BR(hh_2 -> Chi_1 Chi_6)
4.59411152E-24	2		14	14	# BR(hh_2 -> Chi_2 Chi_2)
5.25854251E-25	2		14	16	# BR(hh_2 -> Chi_2 Chi_3)
5.05871399E-14	2		14	1000022	# BR(hh_2 -> Chi_2 Chi_4)
2.77116098E-12	2		14	1000023	# BR(hh_2 -> Chi_2 Chi_5)
6.48893325E-12	2		14	1000025	# BR(hh_2 -> Chi_2 Chi_6)
1.94774590E-26	2		16	16	# BR(hh_2 -> Chi_3 Chi_3)
1.63187735E-13	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
7.62685996E-12	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
9.94989239E-12	2		16	1000025	# BR(hh_2 -> Chi_3 Chi_6)
2.74208158E-01	2	1000022		1000022	# BR(hh_2 -> Chi_4 Chi_4)
4.98046013E-01	2	1000022		1000023	# BR(hh_2 -> Chi_4 Chi_5)
1.99325482E-01	2	1000023		1000023	# BR(hh_2 -> Chi_5 Chi_5)
1.38996303E-08	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
4.99956903E-06	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
1.33790272E-02	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
2.74006095E-09	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
6.50787290E-04	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
DECAY	1000012	9.22031376E-04	#	hh_3	
#	BR	NDA	ID1	ID2	
8.05064893E-05	2		22	22	# BR(hh_3 -> VP VP)
3.11403223E-03	2		21	21	# BR(hh_3 -> VG VG)
8.99141394E-04	2		23	23	# BR(hh_3 -> VZ VZ)
7.97894895E-03	2		24	-24	# BR(hh_3 -> Vwm^* Vwm_virt)
1.62457910E-10	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
4.92895713E-29	2		-11	13	# BR(hh_3 -> Cha_1^* Cha_2)
2.13238477E-26	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3)
4.92895713E-29	2		-13	11	# BR(hh_3 -> Cha_2^* Cha_1)
7.25732425E-06	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
2.93021940E-26	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
2.13238477E-26	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1)
2.93021940E-26	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
2.09489565E-03	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
1.14727226E-25	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
4.50210662E-24	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
1.88950400E-23	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
1.34602911E-13	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
1.74885162E-12	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
4.22932249E-12	2		12	1000025	# BR(hh_3 -> Chi_1 Chi_6)
1.07166027E-23	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
1.26914715E-23	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
5.29888391E-13	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
4.61688953E-14	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
2.10342142E-12	2		14	1000025	# BR(hh_3 -> Chi_2 Chi_6)
2.70996011E-24	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
1.72449353E-12	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
4.00550391E-13	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)
9.10738581E-12	2		16	1000025	# BR(hh_3 -> Chi_3 Chi_6)
2.96604958E-01	2	1000022		1000022	# BR(hh_3 -> Chi_4 Chi_4)
4.73964654E-01	2	1000022		1000023	# BR(hh_3 -> Chi_4 Chi_5)
2.01839551E-01	2	1000023		1000023	# BR(hh_3 -> Chi_5 Chi_5)
1.32945305E-08	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1)
4.78192023E-06	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2)
1.27970301E-02	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3)
2.58612434E-09	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1)
6.14227482E-04	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2)
DECAY	1000014	5.27887792E-03	#	hh_4	
#	BR	NDA	ID1	ID2	
1.15391693E-04	2		22	22	# BR(hh_4 -> VP VP)
4.36487792E-03	2		21	21	# BR(hh_4 -> VG VG)
5.89222484E-03	2		23	23	# BR(hh_4 -> VZ VZ)
4.47675592E-02	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt)
6.91107117E-10	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
1.45488637E-30	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
9.15853835E-27	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
1.45488637E-30	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)

3.08731798E-05	2	-13	13	# BR(hh_4 -> Cha_2^* Cha_2)
4.06725894E-26	2	-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
9.15853835E-27	2	-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
4.06725894E-26	2	-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
8.91375289E-03	2	-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
3.99003294E-26	2	12	12	# BR(hh_4 -> Chi_1 Chi_1)
5.54338177E-25	2	12	14	# BR(hh_4 -> Chi_1 Chi_2)
1.64891471E-24	2	12	16	# BR(hh_4 -> Chi_1 Chi_3)
4.55812027E-15	2	12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
1.27310548E-14	2	12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
9.40631687E-15	2	12	1000025	# BR(hh_4 -> Chi_1 Chi_6)
6.17674252E-24	2	14	14	# BR(hh_4 -> Chi_2 Chi_2)
2.01001356E-23	2	14	16	# BR(hh_4 -> Chi_2 Chi_3)
2.31277090E-14	2	14	1000022	# BR(hh_4 -> Chi_2 Chi_4)
7.65440880E-15	2	14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
1.27464889E-14	2	14	1000025	# BR(hh_4 -> Chi_2 Chi_6)
3.34577211E-23	2	16	16	# BR(hh_4 -> Chi_3 Chi_3)
3.41625188E-14	2	16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
4.11673303E-14	2	16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
1.59543622E-14	2	16	1000025	# BR(hh_4 -> Chi_3 Chi_6)
4.46524799E-01	2	1000022	1000022	# BR(hh_4 -> Chi_4 Chi_4)
3.73053723E-08	2	1000022	1000023	# BR(hh_4 -> Chi_4 Chi_5)
1.31403781E-05	2	1000022	1000025	# BR(hh_4 -> Chi_4 Chi_6)
4.34157058E-01	2	1000023	1000023	# BR(hh_4 -> Chi_5 Chi_5)
1.29111689E-05	2	1000023	1000025	# BR(hh_4 -> Chi_5 Chi_6)
5.65558467E-08	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
2.03426185E-05	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
5.44765124E-02	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
2.99115963E-09	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
7.10459380E-04	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
DECAY #	1000016	1.53366970E-04	# hh_5	
#	BR	NDA	ID1	ID2
9.59647698E-13	2	22	22	# BR(hh_5 -> VP VP)
2.25813808E-10	2	21	21	# BR(hh_5 -> VG VG)
3.80474896E-09	2	36	36	# BR(hh_5 -> Ah_2 Ah_2)
4.04735561E-12	2	36	1000017	# BR(hh_5 -> Ah_2 Ah_3)
4.28621886E-11	2	36	1000018	# BR(hh_5 -> Ah_2 Ah_4)
1.69841954E-09	2	36	23	# BR(hh_5 -> Ah_2 VZ)
4.10965410E-18	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
2.86550991E-13	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
1.83587078E-13	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
1.18885461E-12	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
2.86550991E-13	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
1.18885461E-12	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
6.05802929E-11	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
2.99692102E-13	2	12	12	# BR(hh_5 -> Chi_1 Chi_1)
2.17255858E-11	2	12	14	# BR(hh_5 -> Chi_1 Chi_2)
5.99558155E-11	2	12	16	# BR(hh_5 -> Chi_1 Chi_3)
2.50145219E-04	2	12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
2.66980965E-04	2	12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
2.57652179E-01	2	12	1000025	# BR(hh_5 -> Chi_1 Chi_6)
7.13114375E-11	2	14	14	# BR(hh_5 -> Chi_2 Chi_2)
2.05727309E-10	2	14	16	# BR(hh_5 -> Chi_2 Chi_3)
5.31394861E-04	2	14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
5.67159796E-04	2	14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
5.47342231E-01	2	14	1000025	# BR(hh_5 -> Chi_2 Chi_6)
8.22186948E-11	2	16	16	# BR(hh_5 -> Chi_3 Chi_3)
1.87379163E-04	2	16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
1.99990516E-04	2	16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
1.93002491E-01	2	16	1000025	# BR(hh_5 -> Chi_3 Chi_6)
9.99054668E-12	2	1000022	1000022	# BR(hh_5 -> Chi_4 Chi_4)
3.27682555E-11	2	1000022	1000023	# BR(hh_5 -> Chi_4 Chi_5)
1.37741223E-12	2	1000022	1000025	# BR(hh_5 -> Chi_4 Chi_6)
2.75306915E-10	2	1000023	1000023	# BR(hh_5 -> Chi_5 Chi_5)
1.51776975E-10	2	1000023	1000025	# BR(hh_5 -> Chi_5 Chi_6)
3.82093169E-09	2	1000025	1000025	# BR(hh_5 -> Chi_6 Chi_6)
3.36308167E-16	2	-1	1	# BR(hh_5 -> Fd_1^* Fd_1)
1.20966971E-13	2	-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
3.24475230E-10	2	-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
5.33276075E-17	2	-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
1.26677265E-11	2	-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
2.73247734E-08	2	-24	24	# BR(hh_5 -> VVw VVw^*)
1.07186087E-08	2	23	23	# BR(hh_5 -> VZ VZ)

DECAY	2000012	1.94516563E-03	#	hh_6	
#	BR	NDA	ID1	ID2	
1.15528868E-13	2		22	22	# BR(hh_6 -> VP VP)
7.34113878E-11	2		21	21	# BR(hh_6 -> VG VG)
1.28569841E-10	2		36	36	# BR(hh_6 -> Ah_2 Ah_2)
1.36543842E-11	2		36	1000017	# BR(hh_6 -> Ah_2 Ah_3)
1.22118407E-11	2		36	1000018	# BR(hh_6 -> Ah_2 Ah_4)
3.61528928E-21	2		36	1000019	# BR(hh_6 -> Ah_2 Ah_5)
2.35839744E-12	2	1000017		1000017	# BR(hh_6 -> Ah_3 Ah_3)
3.66515633E-13	2	1000017		1000018	# BR(hh_6 -> Ah_3 Ah_4)
9.09353048E-21	2	1000017		1000019	# BR(hh_6 -> Ah_3 Ah_5)
2.32634045E-12	2	1000018		1000018	# BR(hh_6 -> Ah_4 Ah_4)
2.61673567E-20	2	1000018		1000019	# BR(hh_6 -> Ah_4 Ah_5)
3.92707538E-11	2	1000019		1000019	# BR(hh_6 -> Ah_5 Ah_5)
2.17009247E-09	2		36	23	# BR(hh_6 -> Ah_2 VZ)
3.04513080E-09	2	1000017		23	# BR(hh_6 -> Ah_3 VZ)
2.96824912E-09	2	1000018		23	# BR(hh_6 -> Ah_4 VZ)
1.22328158E-20	2	1000019		23	# BR(hh_6 -> Ah_5 VZ)
1.79039651E-19	2		-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
1.69310633E-16	2		-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
1.76760598E-25	2		-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
1.69310633E-16	2		-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
1.69381366E-14	2		-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
2.49087397E-15	2		-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
1.95099720E-01	2		-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
2.49087397E-15	2		-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
2.31124396E-12	2		-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
3.13233599E-24	2		-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
1.76760598E-25	2	1000024		11	# BR(hh_6 -> Cha_4^* Cha_1)
1.95099720E-01	2	1000024		13	# BR(hh_6 -> Cha_4^* Cha_2)
3.13233599E-24	2	1000024		15	# BR(hh_6 -> Cha_4^* Cha_3)
1.29914491E-14	2		12	12	# BR(hh_6 -> Chi_1 Chi_1)
9.32327084E-13	2		12	14	# BR(hh_6 -> Chi_1 Chi_2)
1.58681117E-12	2		12	16	# BR(hh_6 -> Chi_1 Chi_3)
1.21477391E-05	2		12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
1.30368293E-05	2		12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
1.39519503E-02	2		12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
2.57578626E-02	2		12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
2.36934899E-04	2		12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
2.83941860E-12	2		14	14	# BR(hh_6 -> Chi_2 Chi_2)
7.01498623E-13	2		14	16	# BR(hh_6 -> Chi_2 Chi_3)
2.37032842E-05	2		14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
2.54381222E-05	2		14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
2.72237529E-02	2		14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
5.02600475E-02	2		14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
4.62319388E-04	2		14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
5.85445665E-11	2		16	16	# BR(hh_6 -> Chi_3 Chi_3)
1.49471456E-04	2		16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
1.60411238E-04	2		16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
1.71671315E-01	2		16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
3.16936776E-01	2		16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
2.91535769E-03	2		16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
3.34812814E-12	2	1000022		1000022	# BR(hh_6 -> Chi_4 Chi_4)
8.88576663E-12	2	1000022		1000023	# BR(hh_6 -> Chi_4 Chi_5)
2.96548939E-11	2	1000022		1000025	# BR(hh_6 -> Chi_4 Chi_6)
6.55988145E-12	2	1000023		1000023	# BR(hh_6 -> Chi_5 Chi_5)
5.98627052E-11	2	1000023		1000025	# BR(hh_6 -> Chi_5 Chi_6)
5.60668274E-10	2	1000025		1000025	# BR(hh_6 -> Chi_6 Chi_6)
1.46514759E-17	2		-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
5.27000172E-15	2		-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
1.41481613E-11	2		-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
1.93294058E-18	2		-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
4.59185798E-13	2		-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
1.31735871E-08	2		-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
4.43374293E-10	2		25	25	# BR(hh_6 -> hh_1 hh_1)
2.59207373E-09	2		25	35	# BR(hh_6 -> hh_1 hh_2)
2.89642348E-09	2		25	1000012	# BR(hh_6 -> hh_1 hh_3)
3.41116117E-09	2		25	1000014	# BR(hh_6 -> hh_1 hh_4)
5.21130185E-20	2		25	1000016	# BR(hh_6 -> hh_1 hh_5)
6.59524533E-11	2		35	35	# BR(hh_6 -> hh_2 hh_2)
5.70576298E-15	2		35	1000012	# BR(hh_6 -> hh_2 hh_3)
6.04805298E-11	2		35	1000014	# BR(hh_6 -> hh_2 hh_4)
3.66663752E-20	2		35	1000016	# BR(hh_6 -> hh_2 hh_5)

3.40151390E-11	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3)
3.46045398E-10	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4)
2.71697402E-20	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5)
1.03159438E-09	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4)
1.00976036E-19	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5)
3.92707538E-11	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5)
1.71130864E-11	2	-37	37	# BR(hh_6 -> Hpm_2^* Hpm_2)
2.13574055E-21	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
2.13574055E-21	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
6.36359341E-10	2	-24	24	# BR(hh_6 -> Vwm Vwm^*)
3.03181685E-10	2	23	23	# BR(hh_6 -> VZ VZ)
DECAY 2000014	2.89329788E-02	# hh_7		
# BR	NDA	ID1	ID2	
1.43404387E-15	2	22	22	# BR(hh_7 -> VP VP)
7.75706740E-13	2	21	21	# BR(hh_7 -> VG VG)
1.91382346E-12	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
7.54468618E-13	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)
5.22112539E-14	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
2.63333716E-22	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)
3.53081568E-23	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
2.72325068E-14	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)
6.16274257E-16	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)
1.18772903E-21	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)
6.71419958E-22	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6)
1.03390567E-14	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)
1.71539050E-22	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)
7.32375127E-25	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)
3.72950433E-13	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)
7.61288366E-11	2	36	23	# BR(hh_7 -> Ah_2 VZ)
2.45106281E-10	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
1.77675873E-11	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
1.44771722E-22	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
2.48783124E-23	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
9.85560884E-21	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
5.64446066E-19	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
2.64700991E-16	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
2.34924383E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
5.64446066E-19	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
2.11337701E-16	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
1.44768770E-26	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
2.64700991E-16	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
6.10744787E-14	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)
8.11698152E-25	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
2.34924383E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
1.44768770E-26	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
8.11698152E-25	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)
1.44311681E-14	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)
7.06014821E-13	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)
2.64528794E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)
1.37414548E-05	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)
1.47597317E-05	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)
1.60424488E-02	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)
3.31837033E-01	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
1.06234823E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
7.73600562E-13	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)
1.24539681E-12	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)
6.57641558E-06	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
7.06374477E-06	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
7.67763034E-03	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
1.58811295E-01	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
5.08420948E-03	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
4.86356476E-16	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)
1.26450274E-09	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
1.35820534E-09	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
1.47624246E-06	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
3.05359815E-05	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
9.77583652E-07	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
2.53767753E-13	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
5.18329533E-14	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)
2.18746457E-12	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)
3.25483226E-12	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)
3.50581802E-12	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)
1.54845575E-16	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)

2.46197367E-13	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)	
2.08811656E-13	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)	
4.08799375E-13	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)	
1.25828468E-11	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6)	
3.04047557E-14	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7)	
5.12449260E-11	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8)	
3.87143257E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)	
1.39251883E-16	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)	
3.73887591E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)	
2.03873755E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)	
4.84321835E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)	
2.88649207E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)	
7.77031804E-12	2	25	25	# BR(hh_7 -> hh_1 hh_1)	
2.16251211E-10	2	25	35	# BR(hh_7 -> hh_1 hh_2)	
2.05989004E-11	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)	
7.88373684E-11	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)	
4.29516265E-23	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)	
9.08705296E-25	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)	
4.02671984E-12	2	35	35	# BR(hh_7 -> hh_2 hh_2)	
3.29974884E-12	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)	
2.01133073E-11	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)	
3.63585542E-21	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)	
2.68007597E-22	2	35	2000012	# BR(hh_7 -> hh_2 hh_6)	
2.46315272E-13	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)	
3.94792601E-12	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)	
2.73429753E-22	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)	
1.69279372E-22	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)	
1.95743346E-11	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)	
2.27555206E-21	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)	
5.00768103E-22	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)	
3.72950433E-13	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)	
2.21036350E-13	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)	
1.70255856E-23	2	37	24	# BR(hh_7 -> Hpm_2 VWm^*)	
1.70255856E-23	2	-37	-24	# BR(hh_7 -> Hpm_2^* VWm)	
4.64092503E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 VWm^*)	
4.64092503E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* VWm)	
4.05935874E-12	2	-24	24	# BR(hh_7 -> VWm VWm^*)	
1.99604220E-12	2	23	23	# BR(hh_7 -> VZ VZ)	
DECAY	2000016	2.20825453E+01	# hh_8		
#	BR	NDA	ID1	ID2	
1.88004812E-06	2		22	22	# BR(hh_8 -> VP VP)
7.60875860E-04	2		21	21	# BR(hh_8 -> VG VG)
2.71380871E-06	2		36	36	# BR(hh_8 -> Ah_2 Ah_2)
1.33092858E-09	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
1.28653457E-09	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
8.00819484E-13	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
2.60950263E-13	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
7.09625172E-15	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
9.35235512E-06	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
8.44416342E-15	2	1000017	1000018	1000018	# BR(hh_8 -> Ah_3 Ah_4)
2.90582545E-16	2	1000017	1000019	1000019	# BR(hh_8 -> Ah_3 Ah_5)
9.15708453E-15	2	1000017	2000018	2000018	# BR(hh_8 -> Ah_3 Ah_6)
1.54296865E-14	2	1000017	2000019	2000019	# BR(hh_8 -> Ah_3 Ah_7)
9.76118574E-06	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
5.30268819E-15	2	1000018	1000019	1000019	# BR(hh_8 -> Ah_4 Ah_5)
9.69826061E-15	2	1000018	2000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
1.14324787E-15	2	1000018	2000019	2000019	# BR(hh_8 -> Ah_4 Ah_7)
2.44641652E-04	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
3.83107341E-25	2	1000019	2000018	2000018	# BR(hh_8 -> Ah_5 Ah_6)
2.57619680E-26	2	1000019	2000019	2000019	# BR(hh_8 -> Ah_5 Ah_7)
1.41433070E-04	2	2000018	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
1.68152909E-01	2	36	23	23	# BR(hh_8 -> Ah_2 VZ)
1.96328359E-06	2	1000017	23	23	# BR(hh_8 -> Ah_3 VZ)
1.95771464E-06	2	1000018	23	23	# BR(hh_8 -> Ah_4 VZ)
2.87322353E-14	2	1000019	23	23	# BR(hh_8 -> Ah_5 VZ)
3.95686370E-15	2	2000018	23	23	# BR(hh_8 -> Ah_6 VZ)
1.52601774E-17	2	2000019	23	23	# BR(hh_8 -> Ah_7 VZ)
4.02241490E-11	2	-11	11	11	# BR(hh_8 -> Cha_1^* Cha_1)
2.57497462E-28	2	-11	15	15	# BR(hh_8 -> Cha_1^* Cha_3)
5.36920847E-18	2	-11	-1000024	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)
1.79690171E-06	2	-13	13	13	# BR(hh_8 -> Cha_2^* Cha_2)
1.08777103E-27	2	-13	15	15	# BR(hh_8 -> Cha_2^* Cha_3)
3.70463006E-17	2	-13	-1000024	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)

2.57497462E-28	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
1.08777103E-27	2	-15	13	# BR(hh_8 -> Cha_3^* Cha_2)
5.19296329E-04	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
3.63610503E-16	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
5.36920847E-18	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
3.70463006E-17	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
3.63610503E-16	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
1.69431403E-03	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
9.06804480E-28	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
9.61262466E-29	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
2.81021102E-28	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
8.83834869E-16	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
1.86294982E-15	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
2.52753359E-19	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
1.33922063E-16	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
3.63278477E-17	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
7.50253517E-16	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
2.01729372E-27	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
1.93280245E-26	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
3.80962559E-15	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
1.23618246E-15	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
4.84610740E-16	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
1.17567914E-16	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
1.42256002E-15	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
8.92189241E-17	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
5.26891478E-27	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
6.67381996E-15	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
5.24936969E-15	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)
1.56914755E-15	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
5.64708134E-16	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
4.60674988E-15	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
1.16859779E-15	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
1.99938558E-05	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
5.28272270E-08	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
5.48530134E-05	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
2.13943221E-04	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
3.12770449E-05	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
1.10206307E-08	2	1000022	1000055	# BR(hh_8 -> Chi_4 Chi_9)
2.08917278E-05	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
5.87449131E-05	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
2.28658241E-04	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
3.35015262E-05	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
1.19958783E-08	2	1000023	1000055	# BR(hh_8 -> Chi_5 Chi_9)
2.82626632E-02	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
2.29233646E-01	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
3.47203676E-02	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
1.49102286E-05	2	1000025	1000055	# BR(hh_8 -> Chi_6 Chi_9)
7.37973412E-03	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
8.79352356E-03	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
1.23013290E-04	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
3.29169082E-09	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
1.18399097E-06	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
3.17909412E-03	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
2.41887627E-11	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
5.74628336E-06	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
4.04978864E-01	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
1.72370921E-02	2	25	25	# BR(hh_8 -> hh_1 hh_1)
2.17803375E-04	2	25	35	# BR(hh_8 -> hh_1 hh_2)
1.54504907E-04	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
8.94472122E-02	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
1.18799757E-14	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
2.26159932E-15	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
1.63367483E-18	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
8.84274566E-06	2	35	35	# BR(hh_8 -> hh_2 hh_2)
7.76683409E-07	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
8.60490908E-04	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
3.43175946E-17	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
7.73105853E-15	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
1.51243340E-14	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
1.10397671E-05	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
7.07373297E-04	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
3.73566536E-15	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
1.03601201E-14	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)

1.61060595E-15	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
1.83961270E-03	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
1.57871300E-12	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
2.69418031E-13	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
1.58598139E-14	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
2.44641652E-04	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
1.51450294E-24	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
5.68827845E-26	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
1.41433070E-04	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
1.47057042E-04	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
4.85845409E-27	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3)
7.62181430E-28	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4)
4.85845409E-27	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2)
8.40309557E-05	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)
7.62181430E-28	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2)
4.28631548E-16	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
4.28631548E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
4.06699909E-16	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
4.06699909E-16	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
2.78802437E-16	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
2.78802437E-16	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
1.62132389E-17	2	1000013	24	# BR(hh_8 -> Hpm_5 Vwm^*)
1.62132389E-17	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* Vwm)
6.77657636E-22	2	2000013	24	# BR(hh_8 -> Hpm_6 Vwm^*)
6.77657636E-22	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* Vwm)
4.39145197E-27	2	1000015	24	# BR(hh_8 -> Hpm_7 Vwm^*)
4.39145197E-27	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* Vwm)
3.35412983E-07	2	-24	24	# BR(hh_8 -> Vwm Vwm^*)
1.66759715E-07	2	23	23	# BR(hh_8 -> VZ VZ)

DECAY 36 4.89455953E-05 # Ah_2

#	BR	NDA	ID1	ID2	
2.10799403E-04	2		22	22	# BR(Ah_2 -> VP VP)
6.46665085E-03	2		21	21	# BR(Ah_2 -> VG VG)
1.07950605E-08	2		-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
3.70121227E-27	2		-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
4.82237452E-04	2		-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
1.61012734E-26	2		-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
3.70121227E-27	2		-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
1.61012734E-26	2		-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
1.39219657E-01	2		-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
4.35725654E-24	2		12	12	# BR(Ah_2 -> Chi_1 Chi_1)
1.53897868E-24	2		12	14	# BR(Ah_2 -> Chi_1 Chi_2)
4.75729629E-24	2		12	16	# BR(Ah_2 -> Chi_1 Chi_3)
3.77278043E-12	2		12	1000022	# BR(Ah_2 -> Chi_1 Chi_4)
7.08726183E-12	2		12	1000023	# BR(Ah_2 -> Chi_1 Chi_5)
5.05996909E-17	2		12	1000025	# BR(Ah_2 -> Chi_1 Chi_6)
1.99852678E-25	2		14	14	# BR(Ah_2 -> Chi_2 Chi_2)
3.87556388E-22	2		14	16	# BR(Ah_2 -> Chi_2 Chi_3)
1.67398317E-11	2		14	1000022	# BR(Ah_2 -> Chi_2 Chi_4)
4.56868583E-12	2		14	1000023	# BR(Ah_2 -> Chi_2 Chi_5)
1.62436857E-17	2		14	1000025	# BR(Ah_2 -> Chi_2 Chi_6)
2.04941106E-23	2		16	16	# BR(Ah_2 -> Chi_3 Chi_3)
2.79994917E-11	2		16	1000022	# BR(Ah_2 -> Chi_3 Chi_4)
2.07381283E-11	2		16	1000023	# BR(Ah_2 -> Chi_3 Chi_5)
4.40467738E-17	2		16	1000025	# BR(Ah_2 -> Chi_3 Chi_6)
8.83399649E-07	2		-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
3.17750805E-04	2		-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
8.51067125E-01	2		-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
9.40901363E-09	2		-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
2.23487628E-03	2		-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)

DECAY 1000017 5.35539970E-03 # Ah_3

#	BR	NDA	ID1	ID2	
1.63682661E-10	2		22	22	# BR(Ah_3 -> VP VP)
2.44202321E-09	2		21	21	# BR(Ah_3 -> VG VG)
2.10258130E-15	2		-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
2.49502118E-29	2		-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)
7.68331180E-27	2		-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
2.49502118E-29	2		-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
9.39268310E-11	2		-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
1.89594547E-27	2		-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
7.68331180E-27	2		-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
1.89594547E-27	2		-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
2.71341299E-08	2		-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)

7.90169619E-27	2		12	12	# BR(Ah_3 -> Chi_1 Chi_1)
1.23196180E-27	2		12	14	# BR(Ah_3 -> Chi_1 Chi_2)
9.12552808E-25	2		12	16	# BR(Ah_3 -> Chi_1 Chi_3)
1.81201446E-13	2		12	1000022	# BR(Ah_3 -> Chi_1 Chi_4)
4.83216857E-15	2		12	1000023	# BR(Ah_3 -> Chi_1 Chi_5)
2.58958726E-13	2		12	1000025	# BR(Ah_3 -> Chi_1 Chi_6)
5.24586575E-26	2		14	14	# BR(Ah_3 -> Chi_2 Chi_2)
5.38732859E-25	2		14	16	# BR(Ah_3 -> Chi_2 Chi_3)
3.06879955E-14	2		14	1000022	# BR(Ah_3 -> Chi_2 Chi_4)
3.49897184E-13	2		14	1000023	# BR(Ah_3 -> Chi_2 Chi_5)
1.12653280E-12	2		14	1000025	# BR(Ah_3 -> Chi_2 Chi_6)
2.37095849E-24	2		16	16	# BR(Ah_3 -> Chi_3 Chi_3)
3.49307348E-14	2		16	1000022	# BR(Ah_3 -> Chi_3 Chi_4)
8.75270495E-13	2		16	1000023	# BR(Ah_3 -> Chi_3 Chi_5)
2.03220106E-12	2		16	1000025	# BR(Ah_3 -> Chi_3 Chi_6)
2.87228642E-01	2	1000022	1000022	1000022	# BR(Ah_3 -> Chi_4 Chi_4)
4.74356989E-01	2	1000022	1000022	1000023	# BR(Ah_3 -> Chi_4 Chi_5)
2.38414173E-01	2	1000023	1000023	1000023	# BR(Ah_3 -> Chi_5 Chi_5)
1.72061989E-13	2		-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
6.18891289E-11	2		-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
1.66046694E-07	2		-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
1.12562180E-15	2		-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
2.67391467E-10	2		-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)
DECAY	1000018	4.45856521E-03	#	Ah_4	
#	BR	NDA	ID1	ID2	
1.97049015E-10	2		22	22	# BR(Ah_4 -> VP VP)
3.15838996E-09	2		21	21	# BR(Ah_4 -> VG VG)
2.51645044E-15	2		-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
2.05434550E-30	2		-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
1.48620524E-26	2		-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
2.05434550E-30	2		-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
1.12415257E-10	2		-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
9.82162969E-26	2		-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
1.48620524E-26	2		-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
9.82162969E-26	2		-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
3.24752192E-08	2		-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
3.39625968E-29	2		12	12	# BR(Ah_4 -> Chi_1 Chi_1)
1.19647155E-24	2		12	14	# BR(Ah_4 -> Chi_1 Chi_2)
4.65354084E-24	2		12	16	# BR(Ah_4 -> Chi_1 Chi_3)
4.11121854E-15	2		12	1000022	# BR(Ah_4 -> Chi_1 Chi_4)
1.84237004E-13	2		12	1000023	# BR(Ah_4 -> Chi_1 Chi_5)
8.48272131E-13	2		12	1000025	# BR(Ah_4 -> Chi_1 Chi_6)
4.82893273E-24	2		14	14	# BR(Ah_4 -> Chi_2 Chi_2)
3.94088056E-24	2		14	16	# BR(Ah_4 -> Chi_2 Chi_3)
3.29846105E-13	2		14	1000022	# BR(Ah_4 -> Chi_2 Chi_4)
6.72581703E-14	2		14	1000023	# BR(Ah_4 -> Chi_2 Chi_5)
5.65121347E-13	2		14	1000025	# BR(Ah_4 -> Chi_2 Chi_6)
4.81408453E-25	2		16	16	# BR(Ah_4 -> Chi_3 Chi_3)
8.42503614E-13	2		16	1000022	# BR(Ah_4 -> Chi_3 Chi_4)
1.37813039E-15	2		16	1000023	# BR(Ah_4 -> Chi_3 Chi_5)
1.85743183E-12	2		16	1000025	# BR(Ah_4 -> Chi_3 Chi_6)
2.63352700E-01	2	1000022	1000022	1000022	# BR(Ah_4 -> Chi_4 Chi_4)
5.27627273E-01	2	1000022	1000022	1000023	# BR(Ah_4 -> Chi_4 Chi_5)
2.09019792E-01	2	1000023	1000023	1000023	# BR(Ah_4 -> Chi_5 Chi_5)
2.05930429E-13	2		-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
7.40712977E-11	2		-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
1.98731750E-07	2		-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
1.37015423E-15	2		-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
3.25480213E-10	2		-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)
DECAY	1000019	1.53366963E-04	#	Ah_5	
#	BR	NDA	ID1	ID2	
4.12284271E-13	2		22	22	# BR(Ah_5 -> VP VP)
1.95787736E-10	2		21	21	# BR(Ah_5 -> VG VG)
3.07141197E-09	2		25	36	# BR(Ah_5 -> hh_1 Ah_2)
2.73992172E-11	2		35	36	# BR(Ah_5 -> hh_2 Ah_2)
2.38799363E-11	2		1000012	36	# BR(Ah_5 -> hh_3 Ah_2)
1.30222305E-18	2		-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
2.86551003E-13	2		-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
5.81731588E-14	2		-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
1.18885467E-12	2		-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
2.86551003E-13	2		-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
1.18885467E-12	2		-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
1.81603930E-11	2		-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)

2.99692115E-13	2		12	12	# BR(Ah_5 -> Chi_1 Chi_1)
2.17255868E-11	2		12	14	# BR(Ah_5 -> Chi_1 Chi_2)
5.99558182E-11	2		12	16	# BR(Ah_5 -> Chi_1 Chi_3)
2.50145231E-04	2		12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
2.66980978E-04	2		12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
2.57652190E-01	2		12	1000025	# BR(Ah_5 -> Chi_1 Chi_6)
7.13114407E-11	2		14	14	# BR(Ah_5 -> Chi_2 Chi_2)
2.05727318E-10	2		14	16	# BR(Ah_5 -> Chi_2 Chi_3)
5.31394883E-04	2		14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
5.67159822E-04	2		14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
5.47342255E-01	2		14	1000025	# BR(Ah_5 -> Chi_2 Chi_6)
8.22186985E-11	2		16	16	# BR(Ah_5 -> Chi_3 Chi_3)
1.87379173E-04	2		16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
1.99990524E-04	2		16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
1.93002500E-01	2		16	1000025	# BR(Ah_5 -> Chi_3 Chi_6)
6.81912862E-12	2	1000022	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4)
4.70144100E-11	2	1000022	1000023	1000023	# BR(Ah_5 -> Chi_4 Chi_5)
2.74980617E-11	2	1000022	1000025	1000025	# BR(Ah_5 -> Chi_4 Chi_6)
1.96956224E-10	2	1000023	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5)
3.25903211E-10	2	1000023	1000025	1000025	# BR(Ah_5 -> Chi_5 Chi_6)
8.59122385E-11	2	1000025	1000025	1000025	# BR(Ah_5 -> Chi_6 Chi_6)
1.06565720E-16	2	-1	1	1	# BR(Ah_5 -> Fd_1^* Fd_1)
3.83307158E-14	2	-3	3	3	# BR(Ah_5 -> Fd_2^* Fd_2)
1.02898844E-10	2	-5	5	5	# BR(Ah_5 -> Fd_3^* Fd_3)
1.64269554E-17	2	-2	2	2	# BR(Ah_5 -> Fu_1^* Fu_1)
3.90235102E-12	2	-4	4	4	# BR(Ah_5 -> Fu_2^* Fu_2)
DECAY	2000018	1.94516564E-03	# Ah_6		
#	BR	NDA	ID1	ID2	
2.06893599E-13	2		22	22	# BR(Ah_6 -> VP VP)
1.10456257E-10	2		21	21	# BR(Ah_6 -> VG VG)
2.49693922E-09	2		25	36	# BR(Ah_6 -> hh_1 Ah_2)
3.12059603E-09	2		25	1000017	# BR(Ah_6 -> hh_1 Ah_3)
3.03806460E-09	2		25	1000018	# BR(Ah_6 -> hh_1 Ah_4)
2.73965407E-22	2		25	1000019	# BR(Ah_6 -> hh_1 Ah_5)
5.10389634E-11	2		35	36	# BR(Ah_6 -> hh_2 Ah_2)
2.34059162E-11	2		35	1000017	# BR(Ah_6 -> hh_2 Ah_3)
2.31450777E-11	2		35	1000018	# BR(Ah_6 -> hh_2 Ah_4)
1.33814030E-20	2		35	1000019	# BR(Ah_6 -> hh_2 Ah_5)
6.04848467E-12	2	1000012	36	36	# BR(Ah_6 -> hh_3 Ah_2)
3.15265779E-11	2	1000012	1000017	1000017	# BR(Ah_6 -> hh_3 Ah_3)
3.15269998E-11	2	1000012	1000018	1000018	# BR(Ah_6 -> hh_3 Ah_4)
4.67386197E-21	2	1000012	1000019	1000019	# BR(Ah_6 -> hh_3 Ah_5)
1.41330461E-10	2	1000014	36	36	# BR(Ah_6 -> hh_4 Ah_2)
2.09260017E-10	2	1000014	1000017	1000017	# BR(Ah_6 -> hh_4 Ah_3)
2.03915910E-10	2	1000014	1000018	1000018	# BR(Ah_6 -> hh_4 Ah_4)
1.45474860E-20	2	1000014	1000019	1000019	# BR(Ah_6 -> hh_4 Ah_5)
2.96629570E-20	2	1000016	36	36	# BR(Ah_6 -> hh_5 Ah_2)
4.09744934E-20	2	1000016	1000017	1000017	# BR(Ah_6 -> hh_5 Ah_3)
5.75347155E-20	2	1000016	1000018	1000018	# BR(Ah_6 -> hh_5 Ah_4)
1.41198105E-19	2	-11	11	11	# BR(Ah_6 -> Cha_1^* Cha_1)
1.69310632E-16	2	-11	13	13	# BR(Ah_6 -> Cha_1^* Cha_2)
3.92786161E-25	2	-11	-1000024	-1000024	# BR(Ah_6 -> Cha_1^* Cha_4)
1.69310632E-16	2	-13	11	11	# BR(Ah_6 -> Cha_2^* Cha_1)
1.29205815E-14	2	-13	13	13	# BR(Ah_6 -> Cha_2^* Cha_2)
2.49087396E-15	2	-13	15	15	# BR(Ah_6 -> Cha_2^* Cha_3)
1.95099719E-01	2	-13	-1000024	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4)
2.49087396E-15	2	-15	13	13	# BR(Ah_6 -> Cha_3^* Cha_2)
1.82285146E-12	2	-15	15	15	# BR(Ah_6 -> Cha_3^* Cha_3)
9.59003347E-25	2	-15	-1000024	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4)
3.92786161E-25	2	1000024	11	11	# BR(Ah_6 -> Cha_4^* Cha_1)
1.95099719E-01	2	1000024	13	13	# BR(Ah_6 -> Cha_4^* Cha_2)
9.59003347E-25	2	1000024	15	15	# BR(Ah_6 -> Cha_4^* Cha_3)
1.29914490E-14	2		12	12	# BR(Ah_6 -> Chi_1 Chi_1)
9.32327079E-13	2		12	14	# BR(Ah_6 -> Chi_1 Chi_2)
1.58681116E-12	2		12	16	# BR(Ah_6 -> Chi_1 Chi_3)
1.21477390E-05	2		12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
1.30368292E-05	2		12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
1.39519503E-02	2		12	1000025	# BR(Ah_6 -> Chi_1 Chi_6)
2.57578625E-02	2		12	1000039	# BR(Ah_6 -> Chi_1 Chi_7)
2.36934897E-04	2		12	1000045	# BR(Ah_6 -> Chi_1 Chi_8)
2.83941858E-12	2		14	14	# BR(Ah_6 -> Chi_2 Chi_2)
7.01498618E-13	2		14	16	# BR(Ah_6 -> Chi_2 Chi_3)
2.37032840E-05	2		14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)

2.54381220E-05	2		14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
2.72237527E-02	2		14	1000025	# BR(Ah_6 -> Chi_2 Chi_6)
5.02600472E-02	2		14	1000039	# BR(Ah_6 -> Chi_2 Chi_7)
4.62319385E-04	2		14	1000045	# BR(Ah_6 -> Chi_2 Chi_8)
5.85445661E-11	2		16	16	# BR(Ah_6 -> Chi_3 Chi_3)
1.49471455E-04	2		16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)
1.60411237E-04	2		16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
1.71671314E-01	2		16	1000025	# BR(Ah_6 -> Chi_3 Chi_6)
3.16936774E-01	2		16	1000039	# BR(Ah_6 -> Chi_3 Chi_7)
2.91535768E-03	2		16	1000045	# BR(Ah_6 -> Chi_3 Chi_8)
3.01004661E-12	2	1000022		1000022	# BR(Ah_6 -> Chi_4 Chi_4)
1.05337589E-11	2	1000022		1000023	# BR(Ah_6 -> Chi_4 Chi_5)
2.51638458E-14	2	1000022		1000025	# BR(Ah_6 -> Chi_4 Chi_6)
3.38116226E-12	2	1000023		1000023	# BR(Ah_6 -> Chi_5 Chi_5)
3.01891204E-13	2	1000023		1000025	# BR(Ah_6 -> Chi_5 Chi_6)
8.21008647E-11	2	1000025		1000025	# BR(Ah_6 -> Chi_6 Chi_6)
1.15547624E-17	2	-1		1	# BR(Ah_6 -> Fd_1^* Fd_1)
4.15614220E-15	2	-3		3	# BR(Ah_6 -> Fd_2^* Fd_2)
1.11593816E-11	2	-5		5	# BR(Ah_6 -> Fd_3^* Fd_3)
1.53459005E-18	2	-2		2	# BR(Ah_6 -> Fu_1^* Fu_1)
3.64557381E-13	2	-4		4	# BR(Ah_6 -> Fu_2^* Fu_2)
2.21251234E-08	2	-6		6	# BR(Ah_6 -> Fu_3^* Fu_3)
8.20152703E-11	2	25		23	# BR(Ah_6 -> hh_1 VZ)
2.87833294E-09	2	35		23	# BR(Ah_6 -> hh_2 VZ)
2.66832702E-09	2	1000012		23	# BR(Ah_6 -> hh_3 VZ)
3.06050016E-09	2	1000014		23	# BR(Ah_6 -> hh_4 VZ)
1.63973685E-20	2	1000016		23	# BR(Ah_6 -> hh_5 VZ)
1.84900321E-21	2	37		24	# BR(Ah_6 -> Hpm_2 VWm^*)
1.84900321E-21	2	-37		-24	# BR(Ah_6 -> Hpm_2^* VWm)
DECAY 2000019	2.89329788E-02	# Ah_7			
# BR	NDA	ID1	ID2		
1.90167961E-15	2	22	22	# BR(Ah_7 -> VP VP)	
1.02865301E-12	2	21	21	# BR(Ah_7 -> VG VG)	
8.22082587E-11	2	25	36	# BR(Ah_7 -> hh_1 Ah_2)	
2.36426938E-10	2	25	1000017	# BR(Ah_7 -> hh_1 Ah_3)	
1.71120543E-11	2	25	1000018	# BR(Ah_7 -> hh_1 Ah_4)	
1.43845758E-22	2	25	1000019	# BR(Ah_7 -> hh_1 Ah_5)	
4.66381831E-23	2	25	2000018	# BR(Ah_7 -> hh_1 Ah_6)	
4.11614424E-14	2	35	36	# BR(Ah_7 -> hh_2 Ah_2)	
2.76095559E-12	2	35	1000017	# BR(Ah_7 -> hh_2 Ah_3)	
1.92192410E-13	2	35	1000018	# BR(Ah_7 -> hh_2 Ah_4)	
9.63571809E-22	2	35	1000019	# BR(Ah_7 -> hh_2 Ah_5)	
1.75536641E-22	2	35	2000018	# BR(Ah_7 -> hh_2 Ah_6)	
3.52709289E-13	2	1000012	36	# BR(Ah_7 -> hh_3 Ah_2)	
2.01045705E-12	2	1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3)	
1.73018065E-13	2	1000012	1000018	# BR(Ah_7 -> hh_3 Ah_4)	
4.81836240E-23	2	1000012	1000019	# BR(Ah_7 -> hh_3 Ah_5)	
1.17202169E-22	2	1000012	2000018	# BR(Ah_7 -> hh_3 Ah_6)	
4.16450937E-12	2	1000014	36	# BR(Ah_7 -> hh_4 Ah_2)	
1.37049498E-11	2	1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3)	
9.92057535E-13	2	1000014	1000018	# BR(Ah_7 -> hh_4 Ah_4)	
4.46361509E-22	2	1000014	1000019	# BR(Ah_7 -> hh_4 Ah_5)	
2.91990733E-22	2	1000014	2000018	# BR(Ah_7 -> hh_4 Ah_6)	
1.20213701E-21	2	1000016	36	# BR(Ah_7 -> hh_5 Ah_2)	
3.88878029E-21	2	1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3)	
3.67055296E-22	2	1000016	1000018	# BR(Ah_7 -> hh_5 Ah_4)	
8.49032537E-23	2	2000012	36	# BR(Ah_7 -> hh_6 Ah_2)	
7.99453397E-22	2	2000012	1000017	# BR(Ah_7 -> hh_6 Ah_3)	
4.33531399E-25	2	2000012	1000018	# BR(Ah_7 -> hh_6 Ah_4)	
8.40469639E-21	2	-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)	
5.64446066E-19	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)	
2.64700991E-16	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)	
2.34924383E-01	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)	
5.64446066E-19	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)	
1.88945112E-16	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)	
4.70498274E-25	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)	
2.64700991E-16	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)	
5.46045075E-14	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)	
2.18825436E-26	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)	
2.34924383E-01	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1)	
4.70498274E-25	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2)	
2.18825436E-26	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3)	
1.44311681E-14	2		12	# BR(Ah_7 -> Chi_1 Chi_1)	

7.06014821E-13	2		12	14	# BR(Ah_7 -> Chi_1 Chi_2)
2.64528794E-12	2		12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.37414548E-05	2		12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
1.47597317E-05	2		12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
1.60424488E-02	2		12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
3.31837033E-01	2		12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
1.06234823E-02	2		12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
7.73600562E-13	2		14	14	# BR(Ah_7 -> Chi_2 Chi_2)
1.24539681E-12	2		14	16	# BR(Ah_7 -> Chi_2 Chi_3)
6.57641558E-06	2		14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
7.06374477E-06	2		14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
7.67763034E-03	2		14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
1.58811295E-01	2		14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
5.08420948E-03	2		14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
4.86356476E-16	2		16	16	# BR(Ah_7 -> Chi_3 Chi_3)
1.26450275E-09	2		16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
1.35820535E-09	2		16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
1.47624246E-06	2		16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
3.05359815E-05	2		16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
9.77583653E-07	2		16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
1.68261617E-13	2	1000022	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4)
2.63691432E-14	2	1000022	1000023	1000023	# BR(Ah_7 -> Chi_4 Chi_5)
1.34042566E-13	2	1000022	1000025	1000025	# BR(Ah_7 -> Chi_4 Chi_6)
2.96335505E-12	2	1000022	1000039	1000039	# BR(Ah_7 -> Chi_4 Chi_7)
2.19486342E-12	2	1000022	1000045	1000045	# BR(Ah_7 -> Chi_4 Chi_8)
1.94114704E-15	2	1000023	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5)
2.39651710E-14	2	1000023	1000025	1000025	# BR(Ah_7 -> Chi_5 Chi_6)
3.80886256E-13	2	1000023	1000039	1000039	# BR(Ah_7 -> Chi_5 Chi_7)
1.47007591E-13	2	1000023	1000045	1000045	# BR(Ah_7 -> Chi_5 Chi_8)
3.96390031E-12	2	1000025	1000025	1000025	# BR(Ah_7 -> Chi_6 Chi_6)
5.91968367E-11	2	1000025	1000039	1000039	# BR(Ah_7 -> Chi_6 Chi_7)
1.41904312E-13	2	1000025	1000045	1000045	# BR(Ah_7 -> Chi_6 Chi_8)
3.46122911E-19	2	-1		1	# BR(Ah_7 -> Fd_1^* Fd_1)
1.24497240E-16	2	-3		3	# BR(Ah_7 -> Fd_2^* Fd_2)
3.34287388E-13	2	-5		5	# BR(Ah_7 -> Fd_3^* Fd_3)
1.88107123E-20	2	-2		2	# BR(Ah_7 -> Fu_1^* Fu_1)
4.46867799E-15	2	-4		4	# BR(Ah_7 -> Fu_2^* Fu_2)
3.27603897E-10	2	-6		6	# BR(Ah_7 -> Fu_3^* Fu_3)
6.32199204E-12	2	25		23	# BR(Ah_7 -> hh_1 VZ)
2.31421979E-10	2	35		23	# BR(Ah_7 -> hh_2 VZ)
2.28791063E-11	2	1000012		23	# BR(Ah_7 -> hh_3 VZ)
9.09905158E-11	2	1000014		23	# BR(Ah_7 -> hh_4 VZ)
1.02394655E-22	2	1000016		23	# BR(Ah_7 -> hh_5 VZ)
1.33920588E-23	2	2000012		23	# BR(Ah_7 -> hh_6 VZ)
4.88516804E-24	2	37		24	# BR(Ah_7 -> Hpm_2 VWm^*)
4.88516804E-24	2	-37		-24	# BR(Ah_7 -> Hpm_2^* VWm)
2.88898596E-24	2	1000011		24	# BR(Ah_7 -> Hpm_3 VWm^*)
2.88898596E-24	2	-1000011		-24	# BR(Ah_7 -> Hpm_3^* VWm)
DECAY	2000020	2.31823871E+01	# Ah_8		
#	BR	NDA	ID1	ID2	
2.68770725E-06	2		22	22	# BR(Ah_8 -> VP VP)
9.17247567E-04	2		21	21	# BR(Ah_8 -> VG VG)
1.81070233E-01	2		25	36	# BR(Ah_8 -> hh_1 Ah_2)
7.69071273E-07	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
9.36788712E-07	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
4.16848874E-15	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
6.92825530E-16	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
6.48056744E-17	2		25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
1.70496018E-03	2		35	36	# BR(Ah_8 -> hh_2 Ah_2)
4.16456935E-05	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
1.77150736E-08	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
2.72395948E-17	2		35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
5.12097261E-15	2		35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
1.26989371E-14	2		35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
1.39311189E-03	2	1000012		36	# BR(Ah_8 -> hh_3 Ah_2)
1.21928602E-07	2	1000012		1000017	# BR(Ah_8 -> hh_3 Ah_3)
4.33567859E-05	2	1000012		1000018	# BR(Ah_8 -> hh_3 Ah_4)
6.57373024E-16	2	1000012		1000019	# BR(Ah_8 -> hh_3 Ah_5)
6.65421720E-15	2	1000012		2000018	# BR(Ah_8 -> hh_3 Ah_6)
1.32752116E-15	2	1000012		2000019	# BR(Ah_8 -> hh_3 Ah_7)
9.76613164E-04	2	1000014		36	# BR(Ah_8 -> hh_4 Ah_2)
9.10033603E-10	2	1000014		1000017	# BR(Ah_8 -> hh_4 Ah_3)
1.43944225E-09	2	1000014		1000018	# BR(Ah_8 -> hh_4 Ah_4)

4.88965267E-13	2	1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5)
2.08155257E-13	2	1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6)
1.46508509E-14	2	1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7)
2.37292016E-12	2	1000016	36	# BR(Ah_8 -> hh_5 Ah_2)
1.00513127E-16	2	1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3)
2.81194949E-15	2	1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4)
3.02804834E-24	2	1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5)
1.07189087E-24	2	1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6)
4.30748895E-26	2	1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7)
3.09746758E-13	2	2000012	36	# BR(Ah_8 -> hh_6 Ah_2)
7.42511087E-15	2	2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3)
7.98472968E-15	2	2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4)
5.00829531E-25	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5)
1.23882522E-25	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6)
7.68704332E-15	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2)
1.39196495E-14	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3)
1.03307290E-15	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4)
3.11912858E-26	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
3.80901975E-11	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
2.60638696E-28	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
2.42389389E-16	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
1.70157344E-06	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
1.07750659E-27	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
8.61902487E-16	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
2.60638696E-28	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
1.07750659E-27	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
4.91752111E-04	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
6.87933842E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
2.42389389E-16	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
8.61902487E-16	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
6.87933842E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
8.06459779E-03	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
8.42598347E-28	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
8.30462207E-29	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
2.40749610E-28	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
8.08149019E-16	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
1.70573151E-15	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
1.65151766E-18	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
7.79837102E-17	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
1.49193329E-17	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
6.60442193E-16	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
1.84866242E-27	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
1.83631012E-26	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
3.60216783E-15	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
1.07387740E-15	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
6.71592057E-17	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
2.12707619E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
9.61900194E-18	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
5.69775586E-17	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
4.61679669E-27	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
5.85621352E-15	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
5.07192927E-15	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
3.76019829E-16	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
8.61992696E-15	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
7.02084008E-20	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
9.06900947E-16	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
3.77973693E-05	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
8.01100447E-08	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
8.04177735E-05	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
3.01213328E-05	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
1.68179104E-04	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
4.30155586E-08	2	1000022	1000055	# BR(Ah_8 -> Chi_4 Chi_9)
3.95492232E-05	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
8.59442462E-05	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
3.22874848E-05	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
1.79791608E-04	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
4.54835467E-08	2	1000023	1000055	# BR(Ah_8 -> Chi_5 Chi_9)
4.65326582E-02	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)
3.38550670E-02	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)
1.80899052E-01	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
3.75761473E-05	2	1000025	1000055	# BR(Ah_8 -> Chi_6 Chi_9)
2.51734039E-03	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
3.79406076E-03	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)

2.88987002E-02	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
3.11706135E-09	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
1.12117846E-06	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
3.01049435E-03	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
2.28750285E-11	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
5.43419717E-06	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
4.16081901E-01	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
5.21243139E-03	2	25	23	# BR(Ah_8 -> hh_1 VZ)
1.22231737E-05	2	35	23	# BR(Ah_8 -> hh_2 VZ)
5.28669507E-06	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
8.37726387E-02	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
1.64836683E-13	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
2.91154096E-14	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
1.73724058E-15	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
1.48121316E-28	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3)
1.44002190E-28	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4)
1.48121316E-28	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2)
1.44002190E-28	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2)
1.71253665E-15	2	37	24	# BR(Ah_8 -> Hpm_2 VWm^*)
1.71253665E-15	2	-37	-24	# BR(Ah_8 -> Hpm_2^* VWm)
1.46754649E-15	2	1000011	24	# BR(Ah_8 -> Hpm_3 VWm^*)
1.46754649E-15	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* VWm)
6.78110181E-17	2	2000011	24	# BR(Ah_8 -> Hpm_4 VWm^*)
6.78110181E-17	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* VWm)
3.24855936E-18	2	1000013	24	# BR(Ah_8 -> Hpm_5 VWm^*)
3.24855936E-18	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* VWm)
1.33712523E-22	2	2000013	24	# BR(Ah_8 -> Hpm_6 VWm^*)
1.33712523E-22	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* VWm)
8.76187018E-28	2	1000015	24	# BR(Ah_8 -> Hpm_7 VWm^*)
8.76187018E-28	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* VWm)

DECAY 37 1.30439325E-05 # Hpm_2

#	BR	NDA	ID1	ID2	
3.39993905E-08	2		36	-24	# BR(Hpm_2 -> Ah_2 VWm)
1.58150928E-09	2		1000017	-24	# BR(Hpm_2 -> Ah_3 VWm)
2.17991893E-08	2		1000018	-24	# BR(Hpm_2 -> Ah_4 VWm)
7.23999204E-11	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
4.91729125E-10	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
7.77781693E-10	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
1.53802423E-10	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
1.04459470E-09	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
1.24639713E-09	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
5.42334360E-11	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
3.68867230E-10	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
2.44693051E-10	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
3.14869608E-20	2		1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)
6.65121416E-20	2		1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)
1.28376568E-03	2		1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)
1.83471116E-21	2		1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)
6.66197036E-20	2		1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)
1.34717464E-03	2		1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)
1.75162914E-22	2		1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1)
3.06982345E-22	2		1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2)
9.97368379E-01	2		1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3)
1.27407134E-15	2		-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)
2.09296350E-14	2		-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)
1.29662800E-14	2		-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)
2.37489236E-12	2		-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)
4.47231740E-11	2		-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)
1.95417880E-12	2		-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)
2.00493475E-11	2		-6	1	# BR(Hpm_2 -> Fu_3^* Fd_1)
9.48177709E-10	2		-6	3	# BR(Hpm_2 -> Fu_3^* Fd_2)
5.64936192E-07	2		-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)
3.54666226E-08	2		25	-24	# BR(Hpm_2 -> hh_1 VWm)
1.95119781E-10	2		35	-24	# BR(Hpm_2 -> hh_2 VWm)
1.61384442E-08	2		1000012	-24	# BR(Hpm_2 -> hh_3 VWm)
5.95415691E-10	2		1000014	-24	# BR(Hpm_2 -> hh_4 VWm)
1.03924845E-12	2		-24	23	# BR(Hpm_2 -> VWm VZ)

DECAY 1000011 3.37227861E-04 # Hpm_3

#	BR	NDA	ID1	ID2	
3.47457379E-20	2		37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)
6.55357602E-20	2		37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3)
1.47939778E-19	2		37	1000018	# BR(Hpm_3 -> Hpm_2 Ah_4)
2.31769152E-10	2		37	1000019	# BR(Hpm_3 -> Hpm_2 Ah_5)

1.33519267E-08	2		36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
1.86302269E-08	2	1000017		-24	# BR(Hpm_3 -> Ah_3 Vwm)
1.81585956E-08	2	1000018		-24	# BR(Hpm_3 -> Ah_4 Vwm)
2.64205211E-20	2	1000019		-24	# BR(Hpm_3 -> Ah_5 Vwm)
1.49016738E-12	2	12		11	# BR(Hpm_3 -> Chi_1 Cha_1)
1.14456014E-11	2	12		13	# BR(Hpm_3 -> Chi_1 Cha_2)
1.90868879E-11	2	12		15	# BR(Hpm_3 -> Chi_1 Cha_3)
6.11754614E-02	2	12	-1000024		# BR(Hpm_3 -> Chi_1 Cha_4)
2.90768936E-12	2	14		11	# BR(Hpm_3 -> Chi_2 Cha_1)
4.37362192E-11	2	14		13	# BR(Hpm_3 -> Chi_2 Cha_2)
3.76963148E-11	2	14		15	# BR(Hpm_3 -> Chi_2 Cha_3)
1.19368662E-01	2	14	-1000024		# BR(Hpm_3 -> Chi_2 Cha_4)
1.83357091E-11	2	16		11	# BR(Hpm_3 -> Chi_3 Cha_1)
5.23597167E-11	2	16		13	# BR(Hpm_3 -> Chi_3 Cha_2)
2.04612046E-10	2	16		15	# BR(Hpm_3 -> Chi_3 Cha_3)
7.52731458E-01	2	16	-1000024		# BR(Hpm_3 -> Chi_3 Cha_4)
1.27410477E-21	2	1000022		11	# BR(Hpm_3 -> Chi_4 Cha_1)
3.52115663E-05	2	1000022		13	# BR(Hpm_3 -> Chi_4 Cha_2)
1.58771413E-22	2	1000022		15	# BR(Hpm_3 -> Chi_4 Cha_3)
1.59194759E-22	2	1000023		11	# BR(Hpm_3 -> Chi_5 Cha_1)
3.76467816E-05	2	1000023		13	# BR(Hpm_3 -> Chi_5 Cha_2)
1.85738149E-24	2	1000023		15	# BR(Hpm_3 -> Chi_5 Cha_3)
8.19931224E-24	2	1000025		11	# BR(Hpm_3 -> Chi_6 Cha_1)
3.80444387E-02	2	1000025		13	# BR(Hpm_3 -> Chi_6 Cha_2)
3.33406906E-23	2	1000025		15	# BR(Hpm_3 -> Chi_6 Cha_3)
3.91138101E-25	2	1000039		11	# BR(Hpm_3 -> Chi_7 Cha_1)
2.48651402E-02	2	1000039		13	# BR(Hpm_3 -> Chi_7 Cha_2)
6.46458167E-24	2	1000039		15	# BR(Hpm_3 -> Chi_7 Cha_3)
2.79086482E-25	2	1000045		11	# BR(Hpm_3 -> Chi_8 Cha_1)
3.74176103E-03	2	1000045		13	# BR(Hpm_3 -> Chi_8 Cha_2)
2.74031950E-24	2	1000045		15	# BR(Hpm_3 -> Chi_8 Cha_3)
6.32767822E-17	2	-2		1	# BR(Hpm_3 -> Fu_1^* Fd_1)
1.06519107E-15	2	-2		3	# BR(Hpm_3 -> Fu_1^* Fd_2)
6.60323686E-16	2	-2		5	# BR(Hpm_3 -> Fu_1^* Fd_3)
1.00929035E-13	2	-4		1	# BR(Hpm_3 -> Fu_2^* Fd_1)
1.90393125E-12	2	-4		3	# BR(Hpm_3 -> Fu_2^* Fd_2)
9.88505548E-14	2	-4		5	# BR(Hpm_3 -> Fu_2^* Fd_3)
4.11394989E-12	2	-6		1	# BR(Hpm_3 -> Fu_3^* Fd_1)
1.94557983E-10	2	-6		3	# BR(Hpm_3 -> Fu_3^* Fd_2)
1.16177689E-07	2	-6		5	# BR(Hpm_3 -> Fu_3^* Fd_3)
2.10794534E-20	2	37		25	# BR(Hpm_3 -> Hpm_2 hh_1)
8.19775848E-20	2	37		35	# BR(Hpm_3 -> Hpm_2 hh_2)
3.01183191E-20	2	37	1000012		# BR(Hpm_3 -> Hpm_2 hh_3)
1.40148067E-19	2	37	1000014		# BR(Hpm_3 -> Hpm_2 hh_4)
2.31769152E-10	2	37	1000016		# BR(Hpm_3 -> Hpm_2 hh_5)
3.22942162E-10	2	25	-24		# BR(Hpm_3 -> hh_1 Vwm)
1.77222011E-08	2	35	-24		# BR(Hpm_3 -> hh_2 Vwm)
1.62259501E-08	2	1000012	-24		# BR(Hpm_3 -> hh_3 Vwm)
1.86219644E-08	2	1000014	-24		# BR(Hpm_3 -> hh_4 Vwm)
4.29503605E-20	2	1000016	-24		# BR(Hpm_3 -> hh_5 Vwm)
4.41395155E-30	2	37	23		# BR(Hpm_3 -> Hpm_2 VZ)
2.58302804E-12	2	-24	23		# BR(Hpm_3 -> Vwm VZ)
DECAY #	2000011	5.27533628E-03	#	Hpm_4	
#	BR	NDA	ID1	ID2	
1.79800960E-21	2		37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
7.17928384E-21	2		37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
9.36178537E-22	2		37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
2.44239255E-12	2		37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
2.72377591E-22	2	1000011		36	# BR(Hpm_4 -> Hpm_3 Ah_2)
3.76769000E-21	2	1000011	1000017		# BR(Hpm_4 -> Hpm_3 Ah_3)
7.21890742E-25	2	1000011	1000018		# BR(Hpm_4 -> Hpm_3 Ah_4)
4.33041048E-10	2		36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
1.35732979E-09	2	1000017		-24	# BR(Hpm_4 -> Ah_3 Vwm)
9.83772068E-11	2	1000018		-24	# BR(Hpm_4 -> Ah_4 Vwm)
3.46470066E-22	2	1000019		-24	# BR(Hpm_4 -> Ah_5 Vwm)
4.62002125E-23	2	2000018		-24	# BR(Hpm_4 -> Ah_6 Vwm)
1.72741831E-12	2	12		11	# BR(Hpm_4 -> Chi_1 Cha_1)
1.06162439E-11	2	12		13	# BR(Hpm_4 -> Chi_1 Cha_2)
1.73548484E-11	2	12		15	# BR(Hpm_4 -> Chi_1 Cha_3)
6.49236391E-01	2	12	-1000024		# BR(Hpm_4 -> Chi_1 Cha_4)
2.99848141E-14	2	14		11	# BR(Hpm_4 -> Chi_2 Cha_1)
5.08084355E-12	2	14		13	# BR(Hpm_4 -> Chi_2 Cha_2)
8.43071856E-12	2	14		15	# BR(Hpm_4 -> Chi_2 Cha_3)

3.10712976E-01	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)	
1.59835917E-12	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1)	
1.79795354E-15	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2)	
5.84834137E-14	2	16	15	# BR(Hpm_4 -> Chi_3 Cha_3)	
5.97433934E-05	2	16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)	
3.61674556E-06	2	1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1)	
1.90392089E-23	2	1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2)	
3.51771503E-24	2	1000022	15	# BR(Hpm_4 -> Chi_4 Cha_3)	
3.69987582E-11	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)	
3.87069367E-06	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1)	
4.40787052E-23	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2)	
2.90986028E-25	2	1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3)	
3.62505728E-12	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)	
3.98001425E-03	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1)	
2.17155675E-25	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2)	
5.11860416E-25	2	1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3)	
3.67749090E-10	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)	
2.49628660E-02	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1)	
1.12536344E-24	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2)	
1.63003425E-24	2	1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3)	
1.10405157E-02	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1)	
1.34954051E-24	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2)	
2.32642351E-24	2	1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3)	
1.69833967E-18	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)	
3.09046367E-17	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)	
1.91645991E-17	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)	
1.17641342E-15	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)	
2.25359582E-14	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)	
2.81036955E-15	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)	
5.77277463E-14	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)	
2.73007612E-12	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)	
1.63113339E-09	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)	
3.07644312E-23	2	37	25	# BR(Hpm_4 -> Hpm_2 hh_1)	
6.22336448E-21	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2)	
3.09357208E-22	2	37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)	
3.51214989E-21	2	37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4)	
2.44239255E-12	2	37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5)	
5.18199976E-23	2	1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1)	
1.05933090E-21	2	1000011	35	# BR(Hpm_4 -> Hpm_3 hh_2)	
7.49105162E-22	2	1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3)	
1.90018173E-21	2	1000011	1000014	# BR(Hpm_4 -> Hpm_3 hh_4)	
5.03625364E-11	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm)	
1.27334388E-09	2	35	-24	# BR(Hpm_4 -> hh_2 Vwm)	
1.24354155E-10	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm)	
4.94568157E-10	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm)	
2.82980017E-22	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm)	
2.12537161E-23	2	2000012	-24	# BR(Hpm_4 -> hh_6 Vwm)	
1.98945461E-30	2	37	23	# BR(Hpm_4 -> Hpm_2 VZ)	
3.56987137E-29	2	1000011	23	# BR(Hpm_4 -> Hpm_3 VZ)	
1.28163001E-13	2	-24	23	# BR(Hpm_4 -> Vwm VZ)	
DECAY	1000013	2.76114536E-01	# Hpm_5		
#	BR	NDA	ID1	ID2	
4.23272108E-05	2		37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
1.78000581E-10	2		37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
1.74613474E-10	2		37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
1.93314431E-16	2		37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
5.57560131E-15	2		37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)
1.08009538E-15	2		37	2000019	# BR(Hpm_5 -> Hpm_2 Ah_7)
1.89821446E-25	2	1000011		36	# BR(Hpm_5 -> Hpm_3 Ah_2)
3.69332477E-27	2	1000011		1000017	# BR(Hpm_5 -> Hpm_3 Ah_3)
4.00730667E-26	2	1000011		1000018	# BR(Hpm_5 -> Hpm_3 Ah_4)
5.79848152E-15	2	1000011		1000019	# BR(Hpm_5 -> Hpm_3 Ah_5)
1.07937383E-16	2	1000011		2000018	# BR(Hpm_5 -> Hpm_3 Ah_6)
6.01965417E-27	2	2000011		36	# BR(Hpm_5 -> Hpm_4 Ah_2)
1.44467506E-26	2	2000011		1000017	# BR(Hpm_5 -> Hpm_4 Ah_3)
7.39849376E-27	2	2000011		1000018	# BR(Hpm_5 -> Hpm_4 Ah_4)
1.20111342E-15	2	2000011		1000019	# BR(Hpm_5 -> Hpm_4 Ah_5)
1.08375966E-13	2	36		-24	# BR(Hpm_5 -> Ah_2 Vwm)
2.36162378E-16	2	1000017		-24	# BR(Hpm_5 -> Ah_3 Vwm)
3.00639698E-15	2	1000018		-24	# BR(Hpm_5 -> Ah_4 Vwm)
1.44572947E-03	2	1000019		-24	# BR(Hpm_5 -> Ah_5 Vwm)
1.90730424E-26	2	2000018		-24	# BR(Hpm_5 -> Ah_6 Vwm)
7.54085921E-27	2	2000019		-24	# BR(Hpm_5 -> Ah_7 Vwm)

3.93598345E-16	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1)
1.63973499E-15	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
3.25709593E-15	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
8.26795649E-03	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
8.36138818E-16	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
3.48335057E-15	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
8.28821791E-14	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
1.75639956E-02	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
2.94837241E-16	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
1.22916085E-15	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2)
2.92730475E-13	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
6.19337358E-03	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
2.86417955E-27	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1)
6.42343399E-27	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2)
2.17021016E-06	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3)
2.59859496E-16	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4)
9.80577622E-29	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1)
5.29685217E-27	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2)
2.32787222E-06	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3)
7.44649237E-16	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4)
2.96807628E-29	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1)
6.89547877E-28	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2)
2.48907648E-03	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3)
1.81512545E-13	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4)
1.42158081E-26	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1)
7.38227443E-26	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2)
9.94523421E-02	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3)
9.95360966E-16	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4)
1.24352249E-26	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1)
5.07790034E-26	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2)
1.61636555E-02	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3)
4.30136057E-15	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4)
3.84230611E-28	2	1000055	11	# BR(Hpm_5 -> Chi_9 Cha_1)
1.73755252E-25	2	1000055	13	# BR(Hpm_5 -> Chi_9 Cha_2)
8.43972643E-01	2	1000055	15	# BR(Hpm_5 -> Chi_9 Cha_3)
1.81809952E-21	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)
3.46908840E-20	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)
2.15161070E-20	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)
1.95575669E-19	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)
4.29644144E-18	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)
3.11759777E-18	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)
1.01106685E-17	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)
4.78157297E-16	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)
2.87048529E-13	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)
1.39271154E-03	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1)
1.37388998E-05	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2)
1.13720208E-05	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)
1.18911405E-04	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4)
2.67435945E-15	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5)
7.02426189E-15	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6)
1.22060241E-15	2	37	2000014	# BR(Hpm_5 -> Hpm_2 hh_7)
7.94960566E-26	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1)
6.07540990E-27	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2)
4.51744881E-29	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3)
2.91673906E-25	2	1000011	1000014	# BR(Hpm_5 -> Hpm_3 hh_4)
5.79848152E-15	2	1000011	1000016	# BR(Hpm_5 -> Hpm_3 hh_5)
1.07937383E-16	2	1000011	2000012	# BR(Hpm_5 -> Hpm_3 hh_6)
1.81860699E-26	2	2000011	25	# BR(Hpm_5 -> Hpm_4 hh_1)
1.08966400E-26	2	2000011	35	# BR(Hpm_5 -> Hpm_4 hh_2)
9.92904742E-29	2	2000011	1000012	# BR(Hpm_5 -> Hpm_4 hh_3)
3.24815069E-26	2	2000011	1000014	# BR(Hpm_5 -> Hpm_4 hh_4)
1.20111342E-15	2	2000011	1000016	# BR(Hpm_5 -> Hpm_4 hh_5)
1.03204191E-17	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm)
5.97066937E-17	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm)
2.34460932E-15	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm)
8.06827313E-14	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm)
1.44572947E-03	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm)
1.75746142E-26	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm)
5.68772128E-27	2	2000014	-24	# BR(Hpm_5 -> hh_7 Vwm)
1.42193915E-03	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ)
4.39514252E-26	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ)
8.55381712E-27	2	2000011	23	# BR(Hpm_5 -> Hpm_4 VZ)
4.42472403E-20	2	-24	23	# BR(Hpm_5 -> Vwm VZ)

DECAY	2000013	2.57281134E-01	#	Hpm_6	
#	BR	NDA	ID1	ID2	
2.39636208E-29	2		37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
2.28410643E-29	2		37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
8.03300494E-22	2		37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
4.51253616E-17	2		37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
5.10279718E-07	2		1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2)
9.64739662E-12	2		1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3)
9.62588701E-12	2		1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4)
4.74303828E-17	2		1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5)
1.42071792E-20	2		1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6)
9.21452969E-29	2		2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2)
1.17705208E-19	2		36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
4.66413202E-18	2		1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm)
4.60929360E-18	2		1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm)
3.21729329E-29	2		1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm)
9.00522640E-06	2		2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm)
1.45691469E-27	2		2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm)
3.56314862E-19	2		12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
8.85691833E-16	2		12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
6.23731511E-20	2		12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
7.74281187E-06	2		12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
6.95259622E-19	2		14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
9.73985378E-14	2		14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
1.22641008E-19	2		14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
1.51081671E-05	2		14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
4.38426452E-18	2		16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
3.18190019E-13	2		16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
7.05026495E-19	2		16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
9.52711747E-05	2		16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
3.49809124E-23	2		1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1)
2.10176447E-06	2		1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2)
1.06065470E-30	2		1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3)
4.56479173E-17	2		1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
3.76122867E-23	2		1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1)
2.25984498E-06	2		1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2)
4.57550628E-17	2		1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
4.15585687E-20	2		1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1)
2.49663546E-03	2		1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)
5.41754762E-28	2		1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)
1.09124601E-17	2		1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)
1.48877556E-18	2		1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)
8.94749403E-02	2		1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)
2.16156638E-26	2		1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)
3.21801706E-19	2		1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)
2.56807424E-20	2		1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)
1.59724745E-03	2		1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)
3.31298932E-27	2		1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)
2.21778930E-19	2		1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)
1.50894228E-17	2		1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1)
9.06271608E-01	2		1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)
1.85997923E-25	2		1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)
1.14290578E-25	2		-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)
2.19842227E-24	2		-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)
1.36354429E-24	2		-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)
6.03140352E-25	2		-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)
5.21655645E-23	2		-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)
1.97178258E-22	2		-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)
3.08800557E-23	2		-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)
1.46045467E-21	2		-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)
9.80002118E-19	2		-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)
9.74200309E-29	2		37	25	# BR(Hpm_6 -> Hpm_2 hh_1)
1.51000991E-29	2		37	35	# BR(Hpm_6 -> Hpm_2 hh_2)
2.92785555E-29	2		37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)
9.98585262E-30	2		37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4)
8.03300494E-22	2		37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5)
4.51253616E-17	2		37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6)
7.43992311E-06	2		1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1)
7.84571408E-08	2		1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2)
6.60289983E-08	2		1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3)
2.15881452E-06	2		1000011	1000014	# BR(Hpm_6 -> Hpm_3 hh_4)
1.56608812E-16	2		1000011	1000016	# BR(Hpm_6 -> Hpm_3 hh_5)
4.21814545E-19	2		1000011	2000012	# BR(Hpm_6 -> Hpm_3 hh_6)

1.24881082E-27	2	2000011	25	# BR(Hpm_6 -> Hpm_4 hh_1)
1.94991631E-29	2	2000011	35	# BR(Hpm_6 -> Hpm_4 hh_2)
6.90033204E-30	2	2000011	1000012	# BR(Hpm_6 -> Hpm_4 hh_3)
3.29852831E-28	2	2000011	1000014	# BR(Hpm_6 -> Hpm_4 hh_4)
4.13446649E-19	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm)
4.39215380E-18	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm)
4.13685910E-18	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm)
5.25040742E-19	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm)
9.00522640E-06	2	2000012	-24	# BR(Hpm_6 -> hh_6 Vwm)
1.43799462E-27	2	2000014	-24	# BR(Hpm_6 -> hh_7 Vwm)
3.20492826E-30	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)
8.82154607E-06	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ)
1.39227738E-27	2	2000011	23	# BR(Hpm_6 -> Hpm_4 VZ)
7.77935901E-22	2	-24	23	# BR(Hpm_6 -> Vwm VZ)
DECAY 1000015	2.57212033E-01	# Hpm_7		
# BR	NDA	ID1	ID2	
3.87170692E-27	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
3.65320913E-22	2	37	2000019	# BR(Hpm_7 -> Hpm_2 Ah_7)
8.49844535E-24	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2)
1.60345527E-28	2	1000011	1000017	# BR(Hpm_7 -> Hpm_3 Ah_3)
1.60242372E-28	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4)
1.67807056E-27	2	1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6)
6.46065933E-12	2	2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2)
1.14456928E-16	2	2000011	1000017	# BR(Hpm_7 -> Hpm_4 Ah_3)
1.14155123E-16	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4)
4.06831397E-22	2	2000011	1000019	# BR(Hpm_7 -> Hpm_4 Ah_5)
4.39149794E-25	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
6.87477546E-23	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
5.04227185E-24	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
1.49975837E-22	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
1.02244601E-10	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm)
8.83510239E-16	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
3.31204467E-22	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
1.13029489E-23	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
1.78332709E-09	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
9.74188130E-14	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
1.58508539E-22	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
5.47906106E-24	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
8.53467204E-10	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
3.18284622E-13	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
3.08428652E-26	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
3.27515684E-26	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
1.64071214E-13	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
2.10152060E-06	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
3.50037724E-23	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
4.90686057E-22	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
2.25960378E-06	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
3.76365174E-23	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
2.95591259E-23	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
2.49668151E-03	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
4.15801366E-20	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
9.01455665E-23	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
8.94400048E-02	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
1.49015764E-18	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
1.81068193E-24	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
1.54280198E-03	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
2.66013097E-20	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
1.88033775E-24	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
9.06516148E-01	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
1.50934842E-17	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
1.30397446E-30	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3)
1.72251410E-29	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
1.06836861E-29	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
2.86281758E-30	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
3.73952650E-28	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
1.54487525E-27	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
1.45596838E-28	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
6.88613090E-27	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
4.96036084E-24	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
3.87170692E-27	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5)
3.65320913E-22	2	37	2000014	# BR(Hpm_7 -> Hpm_2 hh_7)
1.23908120E-22	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
1.30669010E-24	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2)

1.09968851E-24	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)	
3.59540074E-23	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)	
1.67832757E-27	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6)	
8.88358773E-11	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1)	
9.32112101E-13	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2)	
7.83631946E-13	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3)	
2.49228839E-11	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4)	
1.34548506E-21	2	2000011	1000016	# BR(Hpm_7 -> Hpm_4 hh_5)	
4.22990095E-25	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)	
6.49271023E-23	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)	
6.42013234E-24	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)	
1.42716658E-24	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)	
1.49975759E-22	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)	
1.02244601E-10	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm)	
1.46916956E-22	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)	
9.78894100E-11	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ)	
7.04260054E-27	2	-24	23	# BR(Hpm_7 -> Vwm VZ)	
DECAY	2000015	2.12517292E+01	# Hpm_8		
#	BR	NDA	ID1	ID2	
8.85022004E-13	2		37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
2.90446924E-16	2		37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
5.36944928E-15	2		37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
3.06863825E-04	2		37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
9.48742104E-26	2		37	2000018	# BR(Hpm_8 -> Hpm_2 Ah_6)
3.90785566E-27	2		37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7)
2.78165309E-13	2	1000011		36	# BR(Hpm_8 -> Hpm_3 Ah_2)
9.34292437E-15	2	1000011	1000017		# BR(Hpm_8 -> Hpm_3 Ah_3)
9.91114097E-15	2	1000011	1000018		# BR(Hpm_8 -> Hpm_3 Ah_4)
1.62491196E-25	2	1000011	1000019		# BR(Hpm_8 -> Hpm_3 Ah_5)
1.74514593E-04	2	1000011	2000018		# BR(Hpm_8 -> Hpm_3 Ah_6)
7.81308584E-15	2	2000011		36	# BR(Hpm_8 -> Hpm_4 Ah_2)
1.58856463E-14	2	2000011	1000017		# BR(Hpm_8 -> Hpm_4 Ah_3)
1.17759357E-15	2	2000011	1000018		# BR(Hpm_8 -> Hpm_4 Ah_4)
1.69827640E-26	2	2000011	1000019		# BR(Hpm_8 -> Hpm_4 Ah_5)
1.15288541E-17	2	1000013		36	# BR(Hpm_8 -> Hpm_5 Ah_2)
4.48497202E-22	2	2000013		36	# BR(Hpm_8 -> Hpm_6 Ah_2)
2.75219894E-27	2	1000015		36	# BR(Hpm_8 -> Hpm_7 Ah_2)
1.73755717E-01	2	36		-24	# BR(Hpm_8 -> Ah_2 Vwm)
2.02858254E-06	2	1000017		-24	# BR(Hpm_8 -> Ah_3 Vwm)
2.02282349E-06	2	1000018		-24	# BR(Hpm_8 -> Ah_4 Vwm)
3.75447369E-14	2	1000019		-24	# BR(Hpm_8 -> Ah_5 Vwm)
7.11561004E-15	2	2000018		-24	# BR(Hpm_8 -> Ah_6 Vwm)
1.63209405E-16	2	2000019		-24	# BR(Hpm_8 -> Ah_7 Vwm)
2.82945208E-11	2	12	11		# BR(Hpm_8 -> Chi_1 Cha_1)
1.22512293E-07	2	12	13		# BR(Hpm_8 -> Chi_1 Cha_2)
1.39448058E-04	2	12	15		# BR(Hpm_8 -> Chi_1 Cha_3)
9.31379695E-17	2	12	-1000024		# BR(Hpm_8 -> Chi_1 Cha_4)
1.35412539E-11	2	14	11		# BR(Hpm_8 -> Chi_2 Cha_1)
2.39052197E-07	2	14	13		# BR(Hpm_8 -> Chi_2 Cha_2)
2.96235845E-04	2	14	15		# BR(Hpm_8 -> Chi_2 Cha_3)
2.54366679E-16	2	14	-1000024		# BR(Hpm_8 -> Chi_2 Cha_4)
2.60369060E-15	2	16	11		# BR(Hpm_8 -> Chi_3 Cha_1)
1.50744849E-06	2	16	13		# BR(Hpm_8 -> Chi_3 Cha_2)
1.04457966E-04	2	16	15		# BR(Hpm_8 -> Chi_3 Cha_3)
7.16159421E-16	2	16	-1000024		# BR(Hpm_8 -> Chi_3 Cha_4)
4.14674296E-15	2	1000022	11		# BR(Hpm_8 -> Chi_4 Cha_1)
8.68715440E-15	2	1000022	13		# BR(Hpm_8 -> Chi_4 Cha_2)
2.67086532E-17	2	1000022	15		# BR(Hpm_8 -> Chi_4 Cha_3)
2.85601229E-04	2	1000022	-1000024		# BR(Hpm_8 -> Chi_4 Cha_4)
2.58693248E-16	2	1000023	11		# BR(Hpm_8 -> Chi_5 Cha_1)
9.05670590E-15	2	1000023	13		# BR(Hpm_8 -> Chi_5 Cha_2)
2.81348600E-16	2	1000023	15		# BR(Hpm_8 -> Chi_5 Cha_3)
3.05373340E-04	2	1000023	-1000024		# BR(Hpm_8 -> Chi_5 Cha_4)
5.45723711E-17	2	1000025	11		# BR(Hpm_8 -> Chi_6 Cha_1)
1.57265062E-16	2	1000025	13		# BR(Hpm_8 -> Chi_6 Cha_2)
4.42924615E-16	2	1000025	15		# BR(Hpm_8 -> Chi_6 Cha_3)
3.08182093E-01	2	1000025	-1000024		# BR(Hpm_8 -> Chi_6 Cha_4)
2.32468809E-16	2	1000039	11		# BR(Hpm_8 -> Chi_7 Cha_1)
1.70878012E-15	2	1000039	13		# BR(Hpm_8 -> Chi_7 Cha_2)
3.11987370E-15	2	1000039	15		# BR(Hpm_8 -> Chi_7 Cha_3)
1.84832188E-03	2	1000039	-1000024		# BR(Hpm_8 -> Chi_7 Cha_4)
2.50975363E-16	2	1000045	11		# BR(Hpm_8 -> Chi_8 Cha_1)
1.60835593E-15	2	1000045	13		# BR(Hpm_8 -> Chi_8 Cha_2)

2.66238586E-15	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)
8.39061050E-03	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
7.41245518E-16	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
1.17575886E-15	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
2.50757720E-16	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
2.96979852E-09	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
5.67335450E-08	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
3.51877783E-08	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
2.74937241E-07	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
6.18808900E-06	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
5.09707089E-06	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
1.43350815E-05	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
6.77939982E-04	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
4.07391490E-01	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
8.77176917E-15	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
2.83418640E-16	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
5.35458299E-15	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3)
5.85436161E-13	2	37	1000014	# BR(Hpm_8 -> Hpm_2 hh_4)
3.06863825E-04	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5)
1.12613075E-25	2	37	2000012	# BR(Hpm_8 -> Hpm_2 hh_6)
4.26477453E-27	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
5.08805173E-15	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
9.31527874E-15	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2)
7.73763903E-15	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
2.31091630E-13	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
3.82812400E-25	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5)
1.74514593E-04	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6)
1.09668688E-15	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
1.44456252E-14	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2)
1.40449946E-15	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
1.63362226E-14	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
1.17449609E-26	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
5.68942421E-03	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
1.32729705E-05	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm)
5.71855881E-06	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
9.19196040E-02	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
1.46321450E-13	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
1.92138498E-14	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
1.24498611E-15	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
2.09962567E-19	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
5.68192384E-26	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
2.45191060E-08	2	-24	23	# BR(Hpm_8 -> Vwm VZ)