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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: 26.09.2019, 14:05
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 2.69044971E+01 # TanBeta
Block EXTPAR # Input parameters
  65 5.19795448E+02 # vR1Input
  66 5.19795448E+02 # vR2Input
  67 5.19795448E+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 9.57982969E+06 # mHd2
  22 5.23596427E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMIX # (SUSY Scale)
  102 8.85690398E+00 # vd
  103 2.38290548E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 3.77050172E-04 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 7.15095151E-03 # Real(Yd(2,2),dp)
  2 3 0.00000000E+00 # Real(Yd(2,3),dp)
  3 1 0.00000000E+00 # Real(Yd(3,1),dp)
  3 2 0.00000000E+00 # Real(Yd(3,2),dp)
  3 3 3.70549295E-01 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 7.69622121E-05 # Real(Ye(1,1),dp)
  1 2 0.00000000E+00 # Real(Ye(1,2),dp)
  1 3 0.00000000E+00 # Real(Ye(1,3),dp)
  2 1 0.00000000E+00 # Real(Ye(2,1),dp)
  2 2 1.62665811E-02 # 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      2.76531882E-01 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      1.05844132E-01 # Real(lam(1), dp)
  2      1.05844132E-01 # Real(lam(2), dp)
  3      1.05844132E-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      5.91059017E-06 # Real(Yu(1,1), dp)
  1 2      1.36711664E-06 # Real(Yu(1,2), dp)
  1 3      2.07783151E-08 # Real(Yu(1,3), dp)
  2 1     -6.66179740E-04 # Real(Yu(2,1), dp)
  2 2      2.87830969E-03 # Real(Yu(2,2), dp)
  2 3      1.21778586E-04 # Real(Yu(2,3), dp)
  3 1      4.93705336E-03 # Real(Yu(3,1), dp)
  3 2     -3.39518011E-02 # Real(Yu(3,2), dp)
  3 3      8.29478864E-01 # Real(Yu(3,3), dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      7.17988498E-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      7.32348254E-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      7.46708010E-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      3.22890758E+02 # Real(Tlam(1) ,dp)
  2      3.22890758E+02 # Real(Tlam(2) ,dp)
  3      3.22890758E+02 # Real(Tlam(3) ,dp)
Block Tv # (SUSY Scale)
  1 1     -1.00000005E-03 # Real(Tv(1,1),dp)
  1 2      0.00000000E+00 # Real(Tv(1,2),dp)
  1 3      0.00000000E+00 # Real(Tv(1,3),dp)
  2 1      0.00000000E+00 # Real(Tv(2,1),dp)
  2 2     -1.00000005E-03 # Real(Tv(2,2),dp)
  2 3      0.00000000E+00 # Real(Tv(2,3),dp)
  3 1      0.00000000E+00 # Real(Tv(3,1),dp)
  3 2      0.00000000E+00 # Real(Tv(3,2),dp)
  3 3     -3.00000014E-04 # Real(Tv(3,3),dp)
Block Tu # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Tu(1,1),dp)
  1 2      0.00000000E+00 # Real(Tu(1,2),dp)
  1 3      0.00000000E+00 # Real(Tu(1,3),dp)
  2 1      0.00000000E+00 # Real(Tu(2,1),dp)
  2 2      0.00000000E+00 # Real(Tu(2,2),dp)
  2 3      0.00000000E+00 # Real(Tu(2,3),dp)
  3 1      0.00000000E+00 # Real(Tu(3,1),dp)
  3 2      0.00000000E+00 # Real(Tu(3,2),dp)
  3 3     -3.13811127E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1     -1.22173734E+00 # Real(Tk(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(Tk(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(Tk(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(Tk(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(Tk(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(Tk(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(Tk(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(Tk(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(Tk(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(Tk(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(Tk(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(Tk(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(Tk(2,2,1),dp)
  2 2 2     -1.22173734E+00 # Real(Tk(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(Tk(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(Tk(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(Tk(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(Tk(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(Tk(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(Tk(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(Tk(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(Tk(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(Tk(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(Tk(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(Tk(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(Tk(3,3,2),dp)
  3 3 3     -1.22173734E+00 # 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      3.62357973E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      5.65551377E+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      1.94456322E+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 2.24923757E+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 3.62357973E+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 -9.91014736E+02 # 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 -1.04700489E+03 # Real(mv2(2,2),dp)
2 3 0.00000000E+00 # Real(mv2(2,3),dp)
3 1 0.00000000E+00 # Real(mv2(3,1),dp)
3 2 0.00000000E+00 # Real(mv2(3,2),dp)
3 3 -1.10411544E+03 # Real(mv2(3,3),dp)
Block RVM2LH1 # (SUSY Scale)
1 0.00000000E+00 # mlHd2(1)
2 0.00000000E+00 # mlHd2(2)
3 0.00000000E+00 # mlHd2(3)
Block RIGHTVEV # (SUSY Scale)
1 5.19795448E+02 # vR(1)
2 5.19795448E+02 # vR(2)
3 5.19795448E+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 1.00029445E+03 # Sd_1
1000003 1.00029668E+03 # Sd_2
1000005 1.00030019E+03 # Sd_3
2000001 1.00169749E+03 # Sd_4
2000003 1.00170100E+03 # Sd_5
2000005 1.90446839E+03 # Sd_6
1000002 9.98600349E+02 # Su_1
1000004 9.98617076E+02 # Su_2
1000006 9.99399329E+02 # Su_3
2000002 9.99399455E+02 # Su_4
2000004 1.76401892E+03 # Su_5
2000006 2.04218029E+03 # Su_6
25 4.79860301E+01 # hh_1
35 4.92771234E+01 # hh_2
1000012 5.12564922E+01 # hh_3
1000014 1.25035912E+02 # hh_4
1000016 2.25078624E+02 # hh_5

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2000012      4.76523655E+02 # hh_6
2000014      7.76810072E+02 # hh_7
2000016      3.10442536E+03 # hh_8
   36      3.62605021E+01 # Ah_2
1000017      3.62702430E+01 # Ah_3
1000018      3.76655805E+01 # Ah_4
1000019      2.25078624E+02 # Ah_5
2000018      4.76523655E+02 # Ah_6
2000019      7.76810072E+02 # Ah_7
2000020      3.10436807E+03 # Ah_8
   37      2.36940726E+02 # Hpm_2
1000011      4.82310310E+02 # Hpm_3
2000011      7.79219646E+02 # Hpm_4
1000013      1.00244083E+03 # Hpm_5
2000013      1.00423026E+03 # Hpm_6
1000015      1.00423744E+03 # Hpm_7
2000015      3.09941522E+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      9.95156620E-12 # Chi_1
   14      2.91759686E-11 # Chi_2
   16      7.95102902E-11 # Chi_3
1000022      4.97517259E+01 # Chi_4
1000023      5.32896012E+01 # Chi_5
1000025      5.44930655E+01 # Chi_6
1000039      1.23333636E+02 # Chi_7
1000045      1.25495249E+02 # Chi_8
1000055      8.85519710E+02 # Chi_9
1000065      1.78433991E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      1.19945956E+02 # Cha_4
1000037      1.78441812E+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 -2.53602834E-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 -9.99996784E-01 # Real(ZD(1,6),dp)
 2 1 -0.00000000E+00 # Real(ZD(2,1),dp)
 2 2  5.00814063E-02 # Real(ZD(2,2),dp)
 2 3 -0.00000000E+00 # Real(ZD(2,3),dp)
 2 4 -0.00000000E+00 # Real(ZD(2,4),dp)
 2 5  9.98745139E-01 # Real(ZD(2,5),dp)
 2 6 -0.00000000E+00 # Real(ZD(2,6),dp)
 3 1 -2.65061078E-03 # Real(ZD(3,1),dp)
 3 2 -0.00000000E+00 # Real(ZD(3,2),dp)
 3 3 -0.00000000E+00 # Real(ZD(3,3),dp)
 3 4 -9.99996487E-01 # Real(ZD(3,4),dp)
 3 5 -0.00000000E+00 # Real(ZD(3,5),dp)
 3 6 -0.00000000E+00 # Real(ZD(3,6),dp)
 4 1 -9.99996487E-01 # Real(ZD(4,1),dp)
 4 2  0.00000000E+00 # Real(ZD(4,2),dp)
 4 3  0.00000000E+00 # Real(ZD(4,3),dp)
 4 4  2.65061078E-03 # Real(ZD(4,4),dp)
 4 5  0.00000000E+00 # Real(ZD(4,5),dp)
 4 6  0.00000000E+00 # Real(ZD(4,6),dp)
 5 1  0.00000000E+00 # Real(ZD(5,1),dp)
 5 2  9.98745139E-01 # Real(ZD(5,2),dp)
 5 3  0.00000000E+00 # Real(ZD(5,3),dp)
 5 4  0.00000000E+00 # Real(ZD(5,4),dp)
 5 5 -5.00814063E-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     -9.99996784E-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      2.53602834E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -9.89504825E-01 # Real(ZU(1,1),dp)
1 2     -1.44499786E-01 # Real(ZU(1,2),dp)
1 3     -1.92100439E-07 # Real(ZU(1,3),dp)
1 4     -2.76832374E-06 # Real(ZU(1,4),dp)
1 5      1.11369787E-04 # Real(ZU(1,5),dp)
1 6     -3.27048858E-08 # Real(ZU(1,6),dp)
2 1     -1.44499491E-01 # Real(ZU(2,1),dp)
2 2      9.89503865E-01 # Real(ZU(2,2),dp)
2 3      3.16476769E-04 # Real(ZU(2,3),dp)
2 4      2.33218147E-07 # Real(ZU(2,4),dp)
2 5      1.37674562E-03 # Real(ZU(2,5),dp)
2 6      5.38643380E-05 # Real(ZU(2,6),dp)
3 1      2.70558169E-06 # Real(ZU(3,1),dp)
3 2      6.30740664E-07 # Real(ZU(3,2),dp)
3 3      6.83819934E-11 # Real(ZU(3,3),dp)
3 4     -1.00000000E+00 # Real(ZU(3,4),dp)
3 5      3.84791198E-08 # Real(ZU(3,5),dp)
3 6      1.14674133E-11 # Real(ZU(3,6),dp)
4 1     -3.09140280E-04 # Real(ZU(4,1),dp)
4 2      1.34620350E-03 # Real(ZU(4,2),dp)
4 3      4.00858835E-07 # Real(ZU(4,3),dp)
4 4     -3.84663821E-08 # Real(ZU(4,4),dp)
4 5     -9.99999046E-01 # Real(ZU(4,5),dp)
4 6      6.72224024E-08 # Real(ZU(4,6),dp)
5 1     -3.77035478E-05 # Real(ZU(5,1),dp)
5 2      2.59286846E-04 # Real(ZU(5,2),dp)
5 3     -7.07650692E-01 # Real(ZU(5,3),dp)
5 4      5.04085796E-12 # Real(ZU(5,4),dp)
5 5      2.95437193E-08 # Real(ZU(5,5),dp)
5 6     -7.06562403E-01 # Real(ZU(5,6),dp)
6 1     -2.66923777E-05 # Real(ZU(6,1),dp)
6 2      1.83563082E-04 # Real(ZU(6,2),dp)
6 3     -7.06562381E-01 # Real(ZU(6,3),dp)
6 4      3.36182938E-12 # Real(ZU(6,4),dp)
6 5      1.97031808E-08 # Real(ZU(6,5),dp)
6 6      7.07650738E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1      2.26483574E-03 # ZH(1,1)
1 2     -3.51348151E-03 # ZH(1,2)
1 3      9.22769949E-01 # ZH(1,3)
1 4     -3.56145759E-01 # ZH(1,4)
1 5     -1.47099778E-01 # ZH(1,5)
1 6      2.60717232E-07 # ZH(1,6)
1 7     -2.77163819E-07 # ZH(1,7)
1 8     -1.68620350E-07 # ZH(1,8)
2 1     -2.88040530E-03 # ZH(2,1)
2 2      4.45206272E-03 # ZH(2,2)
2 3     -2.33670706E-01 # ZH(2,3)
2 4     -8.20785603E-01 # ZH(2,4)
2 5      5.21230158E-01 # ZH(2,5)
2 6     -6.38417077E-08 # ZH(2,6)
2 7     -6.18035878E-07 # ZH(2,7)
2 8      5.74517140E-07 # ZH(2,8)
3 1     -8.61575410E-03 # ZH(3,1)
3 2      1.32223983E-02 # ZH(3,2)
3 3     -3.06259684E-01 # ZH(3,3)
3 4     -4.46511981E-01 # ZH(3,4)
3 5     -8.40584912E-01 # ZH(3,5)
3 6     -7.91519171E-08 # ZH(3,6)
3 7     -3.18292561E-07 # ZH(3,7)
3 8     -8.67541379E-07 # ZH(3,8)
4 1      3.73649225E-02 # ZH(4,1)
4 2      9.99203219E-01 # ZH(4,2)
4 3      8.12585988E-03 # ZH(4,3)
4 4      8.10066146E-03 # ZH(4,4)
4 5      8.07089224E-03 # ZH(4,5)
4 6      6.51375387E-07 # ZH(4,6)

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4	7	1.88155095E-06	# ZH(4,7)
4	8	3.97970004E-06	# ZH(4,8)
5	1	-1.55229144E-07	# ZH(5,1)
5	2	-3.96816773E-06	# ZH(5,2)
5	3	-8.17958736E-09	# ZH(5,3)
5	4	-8.09761845E-09	# ZH(5,4)
5	5	-1.08561537E-06	# ZH(5,5)
5	6	-2.73850638E-12	# ZH(5,6)
5	7	2.20343498E-09	# ZH(5,7)
5	8	1.00000000E+00	# ZH(5,8)
6	1	7.64712287E-08	# ZH(6,1)
6	2	1.87398078E-06	# ZH(6,2)
6	3	1.41485114E-09	# ZH(6,3)
6	4	7.63335930E-07	# ZH(6,4)
6	5	1.35652218E-09	# ZH(6,5)
6	6	1.89500431E-12	# ZH(6,6)
6	7	-1.00000000E+00	# ZH(6,7)
6	8	2.21089078E-09	# ZH(6,8)
7	1	2.91657651E-08	# ZH(7,1)
7	2	6.48483969E-07	# ZH(7,2)
7	3	2.85014730E-07	# ZH(7,3)
7	4	1.46601486E-10	# ZH(7,4)
7	5	1.44143307E-10	# ZH(7,5)
7	6	-1.00000000E+00	# ZH(7,6)
7	7	-6.77096609E-13	# ZH(7,7)
7	8	-1.58196836E-13	# ZH(7,8)
8	1	9.99257827E-01	# ZH(8,1)
8	2	-3.72280784E-02	# ZH(8,2)
8	3	-5.70950639E-03	# ZH(8,3)
8	4	-5.71154053E-03	# ZH(8,4)
8	5	-5.71357068E-03	# ZH(8,5)
8	6	3.37335246E-09	# ZH(8,6)
8	7	2.27411779E-09	# ZH(8,7)
8	8	1.09098594E-09	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	3.71423436E-02	# ZA(1,1)
1	2	-9.99309985E-01	# ZA(1,2)
1	3	-1.12815643E-06	# ZA(1,3)
1	4	-3.74873909E-06	# ZA(1,4)
1	5	-5.75357704E-06	# ZA(1,5)
1	6	6.22172133E-07	# ZA(1,6)
1	7	1.67374977E-06	# ZA(1,7)
1	8	2.26870074E-06	# ZA(1,8)
2	1	-4.93940048E-05	# ZA(2,1)
2	2	-4.27252228E-06	# ZA(2,2)
2	3	-7.89029446E-01	# ZA(2,3)
2	4	5.81135932E-01	# ZA(2,4)
2	5	1.99282610E-01	# ZA(2,5)
2	6	-2.29205346E-07	# ZA(2,6)
2	7	4.59622740E-07	# ZA(2,7)
2	8	2.13453852E-07	# ZA(2,8)
3	1	-5.20359220E-05	# ZA(3,1)
3	2	-4.06700062E-06	# ZA(3,2)
3	3	-2.23468817E-01	# ZA(3,3)
3	4	-5.73643159E-01	# ZA(3,4)
3	5	7.88032494E-01	# ZA(3,5)
3	6	-6.49137707E-08	# ZA(3,6)
3	7	-4.53681585E-07	# ZA(3,7)
3	8	8.44028855E-07	# ZA(3,8)
4	1	-9.56582374E-03	# ZA(4,1)
4	2	-3.49377524E-04	# ZA(4,2)
4	3	-5.72244401E-01	# ZA(4,3)
4	4	-5.77220938E-01	# ZA(4,4)
4	5	-5.82460906E-01	# ZA(4,5)
4	6	-1.66043218E-07	# ZA(4,6)
4	7	-4.55962994E-07	# ZA(4,7)
4	8	-6.22586691E-07	# ZA(4,8)
5	1	-9.11169752E-08	# ZA(5,1)
5	2	2.26688678E-06	# ZA(5,2)
5	3	7.71576906E-10	# ZA(5,3)
5	4	7.69364323E-10	# ZA(5,4)
5	5	-1.07027390E-06	# ZA(5,5)
5	6	-1.51936957E-12	# ZA(5,6)

5	7	2.20771726E-09	# ZA(5,7)
5	8	1.00000000E+00	# ZA(5,8)
6	1	6.86733153E-08	# ZA(6,1)
6	2	-1.67235599E-06	# ZA(6,2)
6	3	-3.63666861E-10	# ZA(6,3)
6	4	7.90527883E-07	# ZA(6,4)
6	5	-3.61877865E-10	# ZA(6,5)
6	6	1.64345928E-12	# ZA(6,6)
6	7	-1.00000000E+00	# ZA(6,7)
6	8	2.21151356E-09	# ZA(6,8)
7	1	2.80168207E-08	# ZA(7,1)
7	2	-6.21560735E-07	# ZA(7,2)
7	3	2.90354286E-07	# ZA(7,3)
7	4	-1.39110755E-10	# ZA(7,4)
7	5	-1.38968813E-10	# ZA(7,5)
7	6	-1.00000000E+00	# ZA(7,6)
7	7	-6.02189879E-13	# ZA(7,7)
7	8	-1.08181597E-13	# ZA(7,8)
8	1	9.99264197E-01	# ZA(8,1)
8	2	3.71407005E-02	# ZA(8,2)
8	3	-5.52861688E-03	# ZA(8,3)
8	4	-5.52666647E-03	# ZA(8,4)
8	5	-5.52472040E-03	# ZA(8,5)
8	6	3.30728375E-09	# ZA(8,6)
8	7	2.14533813E-09	# ZA(8,7)
8	8	9.51721831E-10	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	-3.71412400E-02	# ZP(1,1)
1	2	9.99310026E-01	# ZP(1,2)
1	3	-6.28466448E-07	# ZP(1,3)
1	4	-1.67757317E-06	# ZP(1,4)
1	5	-2.28247379E-06	# ZP(1,5)
1	6	8.36760401E-16	# ZP(1,6)
1	7	1.22272646E-12	# ZP(1,7)
1	8	1.20866184E-10	# ZP(1,8)
2	1	8.45878415E-08	# ZP(2,1)
2	2	-2.28087066E-06	# ZP(2,2)
2	3	1.56446758E-12	# ZP(2,3)
2	4	4.91710826E-12	# ZP(2,4)
2	5	-9.99984879E-01	# ZP(2,5)
2	6	2.11146666E-19	# ZP(2,6)
2	7	1.28463680E-16	# ZP(2,7)
2	8	-5.49927280E-03	# ZP(2,8)
3	1	6.04293549E-08	# ZP(3,1)
3	2	-1.67648534E-06	# ZP(3,2)
3	3	1.68821777E-12	# ZP(3,3)
3	4	-9.99999914E-01	# ZP(3,4)
3	5	-1.08798418E-12	# ZP(3,5)
3	6	9.85515864E-19	# ZP(3,6)
3	7	-4.14911249E-04	# ZP(3,7)
3	8	-3.33438525E-14	# ZP(3,8)
4	1	2.23055623E-08	# ZP(4,1)
4	2	-6.28071345E-07	# ZP(4,2)
4	3	-1.00000000E+00	# ZP(4,3)
4	4	-6.33961064E-13	# ZP(4,4)
4	5	-1.29921835E-13	# ZP(4,5)
4	6	-3.73934278E-06	# ZP(4,6)
4	7	-1.32220507E-15	# ZP(4,7)
4	8	-2.02291143E-14	# ZP(4,8)
5	1	-2.09364996E-09	# ZP(5,1)
5	2	1.26037459E-08	# ZP(5,2)
5	3	1.15515876E-14	# ZP(5,3)
5	4	6.09146619E-15	# ZP(5,4)
5	5	5.49927280E-03	# ZP(5,5)
5	6	9.25087950E-17	# ZP(5,6)
5	7	2.94860281E-14	# ZP(5,7)
5	8	-9.99984879E-01	# ZP(5,8)
6	1	6.01526537E-11	# ZP(6,1)
6	2	-6.95512351E-10	# ZP(6,2)
6	3	-5.82859418E-16	# ZP(6,3)
6	4	-4.14911249E-04	# ZP(6,4)
6	5	-3.25548424E-16	# ZP(6,5)
6	6	-9.43344424E-12	# ZP(6,6)

6	7	9.99999914E-01	# ZP(6,7)
6	8	2.94723994E-14	# ZP(6,8)
7	1	-1.73633700E-13	# ZP(7,1)
7	2	2.34604390E-12	# ZP(7,2)
7	3	3.73934278E-06	# ZP(7,3)
7	4	3.91559210E-15	# ZP(7,4)
7	5	9.59128350E-19	# ZP(7,5)
7	6	-1.00000000E+00	# ZP(7,6)
7	7	-9.43346123E-12	# ZP(7,7)
7	8	-9.24327669E-17	# ZP(7,8)
8	1	-9.99310026E-01	# ZP(8,1)
8	2	-3.71412400E-02	# ZP(8,2)
8	3	1.03717646E-09	# ZP(8,3)
8	4	1.87906958E-09	# ZP(8,4)
8	5	1.75952198E-10	# ZP(8,5)
8	6	9.04823463E-14	# ZP(8,6)
8	7	3.50586090E-11	# ZP(8,7)
8	8	1.62507883E-09	# ZP(8,8)
Block UVMIX # ()			
1	1	-0.00000000E+00	# Real(UV(1,1), dp)
1	2	-0.00000000E+00	# Real(UV(1,2), dp)
1	3	0.00000000E+00	# Real(UV(1,3), dp)
1	4	0.00000000E+00	# Real(UV(1,4), dp)
1	5	-0.00000000E+00	# Real(UV(1,5), dp)
1	6	-0.00000000E+00	# Real(UV(1,6), dp)
1	7	-0.00000000E+00	# Real(UV(1,7), dp)
1	8	0.00000000E+00	# Real(UV(1,8), dp)
1	9	0.00000000E+00	# Real(UV(1,9), dp)
1	10	-0.00000000E+00	# Real(UV(1,10), dp)
2	1	-0.00000000E+00	# Real(UV(2,1), dp)
2	2	0.00000000E+00	# Real(UV(2,2), dp)
2	3	-0.00000000E+00	# Real(UV(2,3), dp)
2	4	-0.00000000E+00	# Real(UV(2,4), dp)
2	5	0.00000000E+00	# Real(UV(2,5), dp)
2	6	-0.00000000E+00	# Real(UV(2,6), dp)
2	7	0.00000000E+00	# Real(UV(2,7), dp)
2	8	0.00000000E+00	# Real(UV(2,8), dp)
2	9	-0.00000000E+00	# Real(UV(2,9), dp)
2	10	0.00000000E+00	# Real(UV(2,10), dp)
3	1	0.00000000E+00	# Real(UV(3,1), dp)
3	2	-0.00000000E+00	# Real(UV(3,2), dp)
3	3	-0.00000000E+00	# Real(UV(3,3), dp)
3	4	-0.00000000E+00	# Real(UV(3,4), dp)
3	5	0.00000000E+00	# Real(UV(3,5), dp)
3	6	-0.00000000E+00	# Real(UV(3,6), dp)
3	7	0.00000000E+00	# Real(UV(3,7), dp)
3	8	-0.00000000E+00	# Real(UV(3,8), dp)
3	9	0.00000000E+00	# Real(UV(3,9), dp)
3	10	-0.00000000E+00	# Real(UV(3,10), dp)
4	1	9.21040430E-09	# Real(UV(4,1), dp)
4	2	2.66847246E-07	# Real(UV(4,2), dp)
4	3	1.29007101E-07	# Real(UV(4,3), dp)
4	4	-1.53334468E-02	# Real(UV(4,4), dp)
4	5	1.35073802E-02	# Real(UV(4,5), dp)
4	6	-1.26472722E-01	# Real(UV(4,6), dp)
4	7	2.88735037E-01	# Real(UV(4,7), dp)
4	8	-6.89484557E-01	# Real(UV(4,8), dp)
4	9	-5.10468851E-01	# Real(UV(4,9), dp)
4	10	-4.05279858E-01	# Real(UV(4,10), dp)
5	1	-4.96988319E-07	# Real(UV(5,1), dp)
5	2	7.33638351E-07	# Real(UV(5,2), dp)
5	3	6.24885310E-09	# Real(UV(5,3), dp)
5	4	2.50270192E-03	# Real(UV(5,4), dp)
5	5	-2.20184654E-03	# Real(UV(5,5), dp)
5	6	2.19895511E-02	# Real(UV(5,6), dp)
5	7	-4.69195286E-02	# Real(UV(5,7), dp)
5	8	-6.75970522E-01	# Real(UV(5,8), dp)
5	9	6.98110106E-01	# Real(UV(5,9), dp)
5	10	2.30239090E-01	# Real(UV(5,10), dp)
6	1	1.73385736E-07	# Real(UV(6,1), dp)
6	2	6.95623772E-07	# Real(UV(6,2), dp)
6	3	-1.07733967E-07	# Real(UV(6,3), dp)
6	4	-2.15805377E-03	# Real(UV(6,4), dp)

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6 5      1.89782886E-03 # Real(UV(6,5),dp)
6 6     -1.93545893E-02 # Real(UV(6,6),dp)
6 7      4.03980165E-02 # Real(UV(6,7),dp)
6 8      1.83522350E-01 # Real(UV(6,8),dp)
6 9      4.66097955E-01 # Real(UV(6,9),dp)
6 10     -8.64324814E-01 # Real(UV(6,10),dp)
7 1      4.75185916E-07 # Real(UV(7,1),dp)
7 2      9.59656913E-07 # Real(UV(7,2),dp)
7 3      1.95423617E-07 # Real(UV(7,3),dp)
7 4     -3.72078818E-02 # Real(UV(7,4),dp)
7 5      3.22591712E-02 # Real(UV(7,5),dp)
7 6     -7.01394799E-01 # Real(UV(7,6),dp)
7 7      6.45304278E-01 # Real(UV(7,7),dp)
7 8      1.69817025E-01 # Real(UV(7,8),dp)
7 9      1.72396350E-01 # Real(UV(7,9),dp)
7 10     1.75055192E-01 # Real(UV(7,10),dp)
8 1      0.00000000E+00 # Real(UV(8,1),dp)
8 2      0.00000000E+00 # Real(UV(8,2),dp)
8 3      0.00000000E+00 # Real(UV(8,3),dp)
8 4      0.00000000E+00 # Real(UV(8,4),dp)
8 5     -0.00000000E+00 # Real(UV(8,5),dp)
8 6     -0.00000000E+00 # Real(UV(8,6),dp)
8 7     -0.00000000E+00 # Real(UV(8,7),dp)
8 8     -0.00000000E+00 # Real(UV(8,8),dp)
8 9     -0.00000000E+00 # Real(UV(8,9),dp)
8 10    -0.00000000E+00 # Real(UV(8,10),dp)
9 1     -2.50394710E-08 # Real(UV(9,1),dp)
9 2     -6.99586665E-08 # Real(UV(9,2),dp)
9 3     -1.06825059E-07 # Real(UV(9,3),dp)
9 4      9.98781930E-01 # Real(UV(9,4),dp)
9 5      4.37117906E-03 # Real(UV(9,5),dp)
9 6     -8.31776319E-03 # Real(UV(9,6),dp)
9 7      4.84387205E-02 # Real(UV(9,7),dp)
9 8     -1.35543134E-04 # Real(UV(9,8),dp)
9 9     -1.35711167E-04 # Real(UV(9,9),dp)
9 10    -1.35879627E-04 # Real(UV(9,10),dp)
10 1     -2.58511109E-08 # Real(UV(10,1),dp)
10 2     -7.03948014E-08 # Real(UV(10,2),dp)
10 3     -1.01227751E-07 # Real(UV(10,3),dp)
10 4      2.15058717E-03 # Real(UV(10,4),dp)
10 5     -9.98973469E-01 # Real(UV(10,5),dp)
10 6     -4.62306267E-03 # Real(UV(10,6),dp)
10 7      4.50111928E-02 # Real(UV(10,7),dp)
10 8      3.39362026E-05 # Real(UV(10,8),dp)
10 9      3.39618316E-05 # Real(UV(10,9),dp)
10 10     3.39874743E-05 # Real(UV(10,10),dp)

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Block IMUVMIX # ()

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1 1     -8.27229187E-01 # Aimag(UV(1,1))
1 2     -2.55822199E-01 # Aimag(UV(1,2))
1 3      5.00246814E-01 # Aimag(UV(1,3))
1 4      8.50737273E-09 # Aimag(UV(1,4))
1 5     -7.72187083E-09 # Aimag(UV(1,5))
1 6     -7.73532369E-07 # Aimag(UV(1,6))
1 7     -1.40089165E-09 # Aimag(UV(1,7))
1 8      2.67067331E-07 # Aimag(UV(1,8))
1 9      6.54454104E-08 # Aimag(UV(1,9))
1 10    -3.24971265E-07 # Aimag(UV(1,10))
2 1     -5.55529832E-01 # Aimag(UV(2,1))
2 2      2.39079982E-01 # Aimag(UV(2,2))
2 3     -7.96383933E-01 # Aimag(UV(2,3))
2 4     -8.57576341E-08 # Aimag(UV(2,4))
2 5      8.00179450E-08 # Aimag(UV(2,5))
2 6     -2.71148618E-07 # Aimag(UV(2,6))
2 7      1.60523513E-08 # Aimag(UV(2,7))
2 8      2.62211122E-07 # Aimag(UV(2,8))
2 9     -3.86902026E-07 # Aimag(UV(2,9))
2 10     3.44860073E-08 # Aimag(UV(2,10))
3 1      8.41336899E-02 # Aimag(UV(3,1))
3 2     -9.36694061E-01 # Aimag(UV(3,2))
3 3     -3.39890802E-01 # Aimag(UV(3,3))
3 4     -1.12431255E-07 # Aimag(UV(3,4))
3 5      1.05163377E-07 # Aimag(UV(3,5))
3 6     -1.31925664E-06 # Aimag(UV(3,6))

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3	7	2.29463517E-08	# Aimag(UV(3,7))
3	8	-4.94396564E-07	# Aimag(UV(3,8))
3	9	7.35120109E-07	# Aimag(UV(3,9))
3	10	-3.72051401E-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	4.72485620E-07	# Aimag(UV(8,1))
8	2	9.49689578E-07	# Aimag(UV(8,2))
8	3	1.82050666E-07	# Aimag(UV(8,3))
8	4	2.82766775E-02	# Aimag(UV(8,4))
8	5	-2.83080932E-02	# Aimag(UV(8,5))
8	6	-7.00786193E-01	# Aimag(UV(8,6))
8	7	-7.01433324E-01	# Aimag(UV(8,7))
8	8	-7.18095012E-02	# Aimag(UV(8,8))
8	9	-7.13863282E-02	# Aimag(UV(8,9))
8	10	-7.09681147E-02	# 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      2.35189297E-06 # Real(ZER(1,2),dp)
 1 3      6.52859209E-09 # Real(ZER(1,3),dp)
 1 4     -4.09528247E-08 # Real(ZER(1,4),dp)
 1 5      6.87181997E-07 # Real(ZER(1,5),dp)
 2 1      2.35189393E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.70975250E-08 # Real(ZER(2,3),dp)
 2 4      1.08371846E-07 # Real(ZER(2,4),dp)
 2 5     -1.38901839E-06 # Real(ZER(2,5),dp)
 3 1     -6.52877572E-09 # Real(ZER(3,1),dp)
 3 2     -1.70979967E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.44875924E-07 # Real(ZER(3,4),dp)
 3 5      3.16996661E-07 # Real(ZER(3,5),dp)
 4 1      6.87431712E-07 # Real(ZER(4,1),dp)
 4 2      1.38969863E-06 # Real(ZER(4,2),dp)
 4 3      3.17936811E-07 # Real(ZER(4,3),dp)
 4 4      6.53588707E-03 # Real(ZER(4,4),dp)
 4 5     -9.99978641E-01 # Real(ZER(4,5),dp)
 5 1      3.64603716E-08 # Real(ZER(5,1),dp)
 5 2      9.92911468E-08 # Real(ZER(5,2),dp)
 5 3      1.42800977E-07 # Real(ZER(5,3),dp)
 5 4      9.99978641E-01 # Real(ZER(5,4),dp)
 5 5      6.53588707E-03 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      3.79492781E-12 # Real(ZEL(1,2),dp)
 1 3      3.08992043E-13 # Real(ZEL(1,3),dp)
 1 4     -4.49006499E-12 # Real(ZEL(1,4),dp)
 1 5      7.07075488E-11 # Real(ZEL(1,5),dp)
 2 1      3.79493087E-12 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -1.73493008E-10 # Real(ZEL(2,3),dp)
 2 4      2.51176278E-09 # Real(ZEL(2,4),dp)
 2 5     -3.95585971E-08 # Real(ZEL(2,5),dp)
 3 1     -3.09055773E-13 # Real(ZEL(3,1),dp)
 3 2     -1.73528655E-10 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -5.70862151E-08 # Real(ZEL(3,4),dp)
 3 5      8.98706620E-07 # Real(ZEL(3,5),dp)
 4 1      7.08499657E-11 # Real(ZEL(4,1),dp)
 4 2      3.96382568E-08 # Real(ZEL(4,2),dp)
 4 3      9.00517831E-07 # Real(ZEL(4,3),dp)
 4 4      6.36678167E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97971146E-01 # Real(ZEL(4,5),dp)
 5 1     -2.08399550E-14 # Real(ZEL(5,1),dp)
 5 2     -1.19427298E-11 # Real(ZEL(5,2),dp)
 5 3     -2.48292827E-10 # Real(ZEL(5,3),dp)
 5 4      9.97971146E-01 # Real(ZEL(5,4),dp)
 5 5      6.36678167E-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 2.52965051E-06 # hh_1
# BR NDA ID1 ID2
 4.80638959E-05 2 22 22 # BR(hh_1 -> VP VP )
 1.06721395E-03 2 21 21 # BR(hh_1 -> VG VG )
 1.14660266E-08 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
 1.32262758E-24 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
 1.77048676E-21 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
 1.32262758E-24 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
 5.12197900E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
 1.86811744E-20 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
 1.77048676E-21 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
 1.86811744E-20 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
 1.46813606E-01 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
 1.96881702E-23 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
 4.54420126E-24 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
 7.52378004E-22 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
 2.35623295E-23 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
 4.96070695E-23 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
 7.96007287E-22 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
 9.07824964E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
 3.26534954E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
 8.51097378E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
 5.65596698E-10 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
 1.34085760E-04 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 4.20805032E-06 # hh_2
# BR NDA ID1 ID2
 5.07065558E-05 2 22 22 # BR(hh_2 -> VP VP )
 1.06032198E-03 2 21 21 # BR(hh_2 -> VG VG )
 1.14487179E-08 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
 3.92223472E-24 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
 1.90674088E-21 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
 3.92223472E-24 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
 5.11425472E-04 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
 7.81935162E-23 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
 1.90674088E-21 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
 7.81935162E-23 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
 1.46654684E-01 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
 1.75045937E-25 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )
 2.71691025E-22 2 12 14 # BR(hh_2 -> Chi_1 Chi_2 )
 5.00189367E-22 2 12 16 # BR(hh_2 -> Chi_1 Chi_3 )
 9.61641510E-22 2 14 14 # BR(hh_2 -> Chi_2 Chi_2 )
 8.14379745E-23 2 14 16 # BR(hh_2 -> Chi_2 Chi_3 )
 2.13773560E-24 2 16 16 # BR(hh_2 -> Chi_3 Chi_3 )
 9.06454542E-07 2 -1 1 # BR(hh_2 -> Fd_1^* Fd_1 )
 3.26042122E-04 2 -3 3 # BR(hh_2 -> Fd_2^* Fd_2 )
 8.51262981E-01 2 -5 5 # BR(hh_2 -> Fd_3^* Fd_3 )
 5.60614326E-10 2 -2 2 # BR(hh_2 -> Fu_1^* Fu_1 )
 1.32920531E-04 2 -4 4 # BR(hh_2 -> Fu_2^* Fu_2 )
DECAY 1000012 3.92435533E-05 # hh_3
# BR NDA ID1 ID2
 5.48715256E-05 2 22 22 # BR(hh_3 -> VP VP )
 1.05045440E-03 2 21 21 # BR(hh_3 -> VG VG )
 1.14248992E-08 2 -11 11 # BR(hh_3 -> Cha_1^* Cha_1 )

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9.42261994E-26	2	-11	13	# BR(hh_3 -> Cha_1^* Cha_2)	
4.30324008E-24	2	-11	15	# BR(hh_3 -> Cha_1^* Cha_3)	
9.42261994E-26	2	-13	11	# BR(hh_3 -> Cha_2^* Cha_1)	
5.10362535E-04	2	-13	13	# BR(hh_3 -> Cha_2^* Cha_2)	
1.11923612E-22	2	-13	15	# BR(hh_3 -> Cha_2^* Cha_3)	
4.30324008E-24	2	-15	11	# BR(hh_3 -> Cha_3^* Cha_1)	
1.11923612E-22	2	-15	13	# BR(hh_3 -> Cha_3^* Cha_2)	
1.46436494E-01	2	-15	15	# BR(hh_3 -> Cha_3^* Cha_3)	
2.86004485E-24	2	12	12	# BR(hh_3 -> Chi_1 Chi_1)	
1.20072215E-23	2	12	14	# BR(hh_3 -> Chi_1 Chi_2)	
4.00138378E-23	2	12	16	# BR(hh_3 -> Chi_1 Chi_3)	
5.28070532E-14	2	12	1000022	# BR(hh_3 -> Chi_1 Chi_4)	
5.07870018E-23	2	14	14	# BR(hh_3 -> Chi_2 Chi_2)	
3.42276928E-22	2	14	16	# BR(hh_3 -> Chi_2 Chi_3)	
8.47872624E-16	2	14	1000022	# BR(hh_3 -> Chi_2 Chi_4)	
4.78393906E-24	2	16	16	# BR(hh_3 -> Chi_3 Chi_3)	
2.78197484E-14	2	16	1000022	# BR(hh_3 -> Chi_3 Chi_4)	
9.04568692E-07	2	-1	1	# BR(hh_3 -> Fd_1^* Fd_1)	
3.25363929E-04	2	-3	3	# BR(hh_3 -> Fd_2^* Fd_2)	
8.51490746E-01	2	-5	5	# BR(hh_3 -> Fd_3^* Fd_3)	
5.51541566E-10	2	-2	2	# BR(hh_3 -> Fu_1^* Fu_1)	
1.30791019E-04	2	-4	4	# BR(hh_3 -> Fu_2^* Fu_2)	
DECAY	1000014	3.82362389E-03	# hh_4		
#	BR	NDA	ID1	ID2	
2.42825158E-03	2		22	22	# BR(hh_4 -> VP VP)
9.32596355E-02	2		21	21	# BR(hh_4 -> VG VG)
2.34169393E-02	2		23	23	# BR(hh_4 -> VZ VZ)
2.15823120E-01	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt)
6.54922225E-04	2		36	36	# BR(hh_4 -> Ah_2 Ah_2)
2.29375411E-10	2		36	1000017	# BR(hh_4 -> Ah_2 Ah_3)
6.02875951E-09	2		36	1000018	# BR(hh_4 -> Ah_2 Ah_4)
6.88420397E-04	2	1000017	1000017	1000017	# BR(hh_4 -> Ah_3 Ah_3)
4.01208734E-09	2	1000017	1000017	1000018	# BR(hh_4 -> Ah_3 Ah_4)
1.36943496E-02	2	1000018	1000018	1000018	# BR(hh_4 -> Ah_4 Ah_4)
5.37988508E-09	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
6.84747566E-27	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
4.33399748E-23	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
6.23205237E-15	2		-11	-1000024	# BR(hh_4 -> Cha_1^* Cha_4)
6.84747566E-27	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)
2.40330351E-04	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2)
1.98217610E-22	2		-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
4.89955664E-14	2		-13	-1000024	# BR(hh_4 -> Cha_2^* Cha_4)
4.33399748E-23	2		-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
1.98217610E-22	2		-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
6.93716455E-02	2		-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
2.11357710E-12	2		-15	-1000024	# BR(hh_4 -> Cha_3^* Cha_4)
6.23205237E-15	2	1000024	11	11	# BR(hh_4 -> Cha_4^* Cha_1)
4.89955664E-14	2	1000024	13	13	# BR(hh_4 -> Cha_4^* Cha_2)
2.11357710E-12	2	1000024	15	15	# BR(hh_4 -> Cha_4^* Cha_3)
5.27386395E-24	2		12	12	# BR(hh_4 -> Chi_1 Chi_1)
1.82947788E-24	2		12	14	# BR(hh_4 -> Chi_1 Chi_2)
2.68549654E-24	2		12	16	# BR(hh_4 -> Chi_1 Chi_3)
5.97446040E-13	2		12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
1.82192505E-12	2		12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
5.65856970E-12	2		12	1000025	# BR(hh_4 -> Chi_1 Chi_6)
3.85659511E-16	2		12	1000039	# BR(hh_4 -> Chi_1 Chi_7)
8.34897787E-23	2		14	14	# BR(hh_4 -> Chi_2 Chi_2)
1.54170281E-23	2		14	16	# BR(hh_4 -> Chi_2 Chi_3)
1.24612518E-12	2		14	1000022	# BR(hh_4 -> Chi_2 Chi_4)
9.47265540E-12	2		14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
8.71575575E-13	2		14	1000025	# BR(hh_4 -> Chi_2 Chi_6)
6.45136010E-15	2		14	1000039	# BR(hh_4 -> Chi_2 Chi_7)
3.76229608E-22	2		16	16	# BR(hh_4 -> Chi_3 Chi_3)
4.02029114E-12	2		16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
2.33267408E-11	2		16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
1.60474212E-11	2		16	1000025	# BR(hh_4 -> Chi_3 Chi_6)
8.07959914E-15	2		16	1000039	# BR(hh_4 -> Chi_3 Chi_7)
1.39818538E-01	2	1000022	1000022	1000022	# BR(hh_4 -> Chi_4 Chi_4)
6.59935241E-03	2	1000022	1000022	1000023	# BR(hh_4 -> Chi_4 Chi_5)
4.58779031E-03	2	1000022	1000022	1000025	# BR(hh_4 -> Chi_4 Chi_6)
1.56261900E-07	2	1000023	1000023	1000023	# BR(hh_4 -> Chi_5 Chi_5)
9.68317945E-05	2	1000023	1000023	1000025	# BR(hh_4 -> Chi_5 Chi_6)
2.86637801E-06	2	1000025	1000025	1000025	# BR(hh_4 -> Chi_6 Chi_6)

4.25953481E-07	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.53211532E-04	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
4.09942328E-01	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
7.88577658E-08	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
2.03368024E-30	2	-2	4	# BR(hh_4 -> Fu_1^* Fu_2)
2.02016276E-30	2	-4	2	# BR(hh_4 -> Fu_2^* Fu_1)
1.87291207E-02	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
5.81127435E-07	2	25	25	# BR(hh_4 -> hh_1 hh_1)
7.35640231E-06	2	25	35	# BR(hh_4 -> hh_1 hh_2)
6.09902681E-05	2	25	1000012	# BR(hh_4 -> hh_1 hh_3)
1.53223134E-07	2	35	35	# BR(hh_4 -> hh_2 hh_2)
9.37397825E-05	2	35	1000012	# BR(hh_4 -> hh_2 hh_3)
3.28848929E-04	2	1000012	1000012	# BR(hh_4 -> hh_3 hh_3)
DECAY 1000016	1.81513162E-01	#	hh_5	
# BR	NDA	ID1	ID2	
9.23951403E-16	2	22	22	# BR(hh_5 -> VP VP)
2.41046920E-13	2	21	21	# BR(hh_5 -> VG VG)
2.20475674E-16	2	36	36	# BR(hh_5 -> Ah_2 Ah_2)
9.21871492E-16	2	36	1000017	# BR(hh_5 -> Ah_2 Ah_3)
5.20188740E-16	2	36	1000018	# BR(hh_5 -> Ah_2 Ah_4)
8.94596206E-15	2	1000017	1000017	# BR(hh_5 -> Ah_3 Ah_3)
8.15377886E-15	2	1000017	1000018	# BR(hh_5 -> Ah_3 Ah_4)
1.01574700E-14	2	1000018	1000018	# BR(hh_5 -> Ah_4 Ah_4)
4.93135178E-13	2	36	23	# BR(hh_5 -> Ah_2 VZ)
7.71027202E-12	2	1000017	23	# BR(hh_5 -> Ah_3 VZ)
4.14845058E-12	2	1000018	23	# BR(hh_5 -> Ah_4 VZ)
3.52093397E-21	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
4.22323990E-13	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
1.21661605E-23	2	-11	-1000024	# BR(hh_5 -> Cha_1^* Cha_4)
1.57287716E-16	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
1.75444018E-12	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
6.59951549E-20	2	-13	-1000024	# BR(hh_5 -> Cha_2^* Cha_4)
4.22323990E-13	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
1.75444018E-12	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
6.92596617E-13	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
4.92749899E-01	2	-15	-1000024	# BR(hh_5 -> Cha_3^* Cha_4)
1.21661605E-23	2	1000024	11	# BR(hh_5 -> Cha_4^* Cha_1)
6.59951549E-20	2	1000024	13	# BR(hh_5 -> Cha_4^* Cha_2)
4.92749899E-01	2	1000024	15	# BR(hh_5 -> Cha_4^* Cha_3)
4.08791511E-16	2	12	12	# BR(hh_5 -> Chi_1 Chi_1)
2.86986048E-14	2	12	14	# BR(hh_5 -> Chi_1 Chi_2)
4.09136062E-14	2	12	16	# BR(hh_5 -> Chi_1 Chi_3)
5.78677182E-04	2	12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
1.51597591E-05	2	12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
1.12050106E-05	2	12	1000025	# BR(hh_5 -> Chi_1 Chi_6)
1.80826806E-03	2	12	1000039	# BR(hh_5 -> Chi_1 Chi_7)
1.21532034E-03	2	12	1000045	# BR(hh_5 -> Chi_1 Chi_8)
1.09005871E-13	2	14	14	# BR(hh_5 -> Chi_2 Chi_2)
1.64987193E-13	2	14	16	# BR(hh_5 -> Chi_2 Chi_3)
1.46660336E-03	2	14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
3.84209958E-05	2	14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
2.83980544E-05	2	14	1000025	# BR(hh_5 -> Chi_2 Chi_6)
4.58288679E-03	2	14	1000039	# BR(hh_5 -> Chi_2 Chi_7)
3.08011608E-03	2	14	1000045	# BR(hh_5 -> Chi_2 Chi_8)
3.42341890E-14	2	16	16	# BR(hh_5 -> Chi_3 Chi_3)
2.67144678E-04	2	16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
6.99845976E-06	2	16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
5.17276130E-06	2	16	1000025	# BR(hh_5 -> Chi_3 Chi_6)
8.34781817E-04	2	16	1000039	# BR(hh_5 -> Chi_3 Chi_7)
5.61049184E-04	2	16	1000045	# BR(hh_5 -> Chi_3 Chi_8)
1.59699413E-13	2	1000022	1000022	# BR(hh_5 -> Chi_4 Chi_4)
1.43583444E-15	2	1000022	1000023	# BR(hh_5 -> Chi_4 Chi_5)
3.65179111E-14	2	1000022	1000025	# BR(hh_5 -> Chi_4 Chi_6)
1.28711461E-12	2	1000022	1000039	# BR(hh_5 -> Chi_4 Chi_7)
2.55730166E-12	2	1000022	1000045	# BR(hh_5 -> Chi_4 Chi_8)
3.18627890E-16	2	1000023	1000023	# BR(hh_5 -> Chi_5 Chi_5)
1.56992487E-14	2	1000023	1000025	# BR(hh_5 -> Chi_5 Chi_6)
2.78031187E-14	2	1000023	1000039	# BR(hh_5 -> Chi_5 Chi_7)
7.04011758E-14	2	1000023	1000045	# BR(hh_5 -> Chi_5 Chi_8)
1.22415448E-13	2	1000025	1000025	# BR(hh_5 -> Chi_6 Chi_6)
1.61746814E-14	2	1000025	1000039	# BR(hh_5 -> Chi_6 Chi_7)
8.33143467E-14	2	1000025	1000045	# BR(hh_5 -> Chi_6 Chi_8)
2.78770654E-19	2	-1	1	# BR(hh_5 -> Fd_1^* Fd_1)

1.00271251E-16	2	-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
2.68988084E-13	2	-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
4.71610427E-20	2	-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
1.12029400E-14	2	-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
1.03917536E-17	2	25	25	# BR(hh_5 -> hh_1 hh_1)
1.59860484E-15	2	25	35	# BR(hh_5 -> hh_1 hh_2)
1.73611807E-15	2	25	1000012	# BR(hh_5 -> hh_1 hh_3)
4.36265498E-13	2	25	1000014	# BR(hh_5 -> hh_1 hh_4)
5.73308180E-15	2	35	35	# BR(hh_5 -> hh_2 hh_2)
1.53983950E-14	2	35	1000012	# BR(hh_5 -> hh_2 hh_3)
5.02460610E-12	2	35	1000014	# BR(hh_5 -> hh_2 hh_4)
8.45715342E-15	2	1000012	1000012	# BR(hh_5 -> hh_3 hh_3)
1.13027898E-11	2	1000012	1000014	# BR(hh_5 -> hh_3 hh_4)
2.92626551E-11	2	-24	24	# BR(hh_5 -> Vwm Vwm^*)
1.19692971E-11	2	23	23	# BR(hh_5 -> VZ VZ)
DECAY 2000012	2.60672731E-02	# hh_6		
# BR	NDA	ID1	ID2	
9.01376778E-15	2	22	22	# BR(hh_6 -> VP VP)
5.91062447E-12	2	21	21	# BR(hh_6 -> VG VG)
1.64145026E-14	2	36	36	# BR(hh_6 -> Ah_2 Ah_2)
2.82060972E-14	2	36	1000017	# BR(hh_6 -> Ah_2 Ah_3)
3.07173493E-14	2	36	1000018	# BR(hh_6 -> Ah_2 Ah_4)
8.87186118E-22	2	36	1000019	# BR(hh_6 -> Ah_2 Ah_5)
1.57290000E-14	2	1000017	1000017	# BR(hh_6 -> Ah_3 Ah_3)
3.00523399E-14	2	1000017	1000018	# BR(hh_6 -> Ah_3 Ah_4)
2.29546102E-21	2	1000017	1000019	# BR(hh_6 -> Ah_3 Ah_5)
3.35937911E-14	2	1000018	1000018	# BR(hh_6 -> Ah_4 Ah_4)
4.93648232E-22	2	1000018	1000019	# BR(hh_6 -> Ah_4 Ah_5)
3.81323281E-12	2	1000019	1000019	# BR(hh_6 -> Ah_5 Ah_5)
2.59437068E-10	2	36	23	# BR(hh_6 -> Ah_2 VZ)
2.52779427E-10	2	1000017	23	# BR(hh_6 -> Ah_3 VZ)
2.54846761E-10	2	1000018	23	# BR(hh_6 -> Ah_4 VZ)
6.06074969E-22	2	1000019	23	# BR(hh_6 -> Ah_5 VZ)
1.25970899E-20	2	-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
2.15459053E-14	2	-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
3.01560845E-29	2	-11	15	# BR(hh_6 -> Cha_1^* Cha_3)
2.17897234E-22	2	-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
2.15459053E-14	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
2.29708857E-13	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
2.77055906E-13	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
3.20734143E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
3.01560845E-29	2	-15	11	# BR(hh_6 -> Cha_3^* Cha_1)
2.77055906E-13	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
1.62618267E-13	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
6.10771416E-17	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
2.17897234E-22	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1)
3.20734143E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2)
6.10771416E-17	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3)
3.43833652E-14	2	1000024	-1000024	# BR(hh_6 -> Cha_4^* Cha_4)
1.57605874E-15	2	12	12	# BR(hh_6 -> Chi_1 Chi_1)
9.87078515E-14	2	12	14	# BR(hh_6 -> Chi_1 Chi_2)
7.57927201E-14	2	12	16	# BR(hh_6 -> Chi_1 Chi_3)
2.41266687E-03	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
6.39644531E-05	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
4.74805018E-05	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
1.23945942E-02	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
8.54540115E-03	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
1.44828516E-13	2	14	14	# BR(hh_6 -> Chi_2 Chi_2)
4.91344614E-13	2	14	16	# BR(hh_6 -> Chi_2 Chi_3)
2.10720765E-03	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
5.58661401E-05	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
4.14691635E-05	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
1.08253585E-02	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
7.46349814E-03	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
3.83300585E-12	2	16	16	# BR(hh_6 -> Chi_3 Chi_3)
3.23456910E-02	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
8.57546670E-04	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
6.36552713E-04	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
1.66169528E-01	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
1.14564886E-01	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
6.84048126E-13	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4)
5.20730577E-12	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5)
2.78748249E-12	2	1000022	1000025	# BR(hh_6 -> Chi_4 Chi_6)

4.23919363E-12	2	1000022	1000039	# BR(hh_6 -> Chi_4 Chi_7)
3.73964311E-11	2	1000022	1000045	# BR(hh_6 -> Chi_4 Chi_8)
1.10718728E-12	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5)
4.29312308E-13	2	1000023	1000025	# BR(hh_6 -> Chi_5 Chi_6)
6.28468941E-12	2	1000023	1000039	# BR(hh_6 -> Chi_5 Chi_7)
1.83661652E-11	2	1000023	1000045	# BR(hh_6 -> Chi_5 Chi_8)
5.62565626E-15	2	1000025	1000025	# BR(hh_6 -> Chi_6 Chi_6)
7.34209614E-12	2	1000025	1000039	# BR(hh_6 -> Chi_6 Chi_7)
4.21483463E-12	2	1000025	1000045	# BR(hh_6 -> Chi_6 Chi_8)
3.50398639E-14	2	1000039	1000039	# BR(hh_6 -> Chi_7 Chi_7)
8.06101281E-12	2	1000039	1000045	# BR(hh_6 -> Chi_7 Chi_8)
4.19690466E-12	2	1000045	1000045	# BR(hh_6 -> Chi_8 Chi_8)
9.97377111E-19	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
3.58747421E-16	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
9.63120320E-13	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
1.55058778E-19	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
3.68354745E-14	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
1.16717158E-09	2	-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
3.26453158E-15	2	25	25	# BR(hh_6 -> hh_1 hh_1)
6.77738479E-15	2	25	35	# BR(hh_6 -> hh_1 hh_2)
4.10702089E-15	2	25	1000012	# BR(hh_6 -> hh_1 hh_3)
9.73183074E-11	2	25	1000014	# BR(hh_6 -> hh_1 hh_4)
1.53916983E-21	2	25	1000016	# BR(hh_6 -> hh_1 hh_5)
3.76385379E-15	2	35	35	# BR(hh_6 -> hh_2 hh_2)
7.32698935E-14	2	35	1000012	# BR(hh_6 -> hh_2 hh_3)
5.09154178E-10	2	35	1000014	# BR(hh_6 -> hh_2 hh_4)
5.42128894E-21	2	35	1000016	# BR(hh_6 -> hh_2 hh_5)
3.47336753E-14	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3)
1.47055167E-10	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4)
3.59986206E-21	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5)
1.02917637E-10	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4)
5.62055668E-21	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5)
3.81323281E-12	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5)
7.28674024E-13	2	-37	37	# BR(hh_6 -> Hpm_2^* Hpm_2)
2.39146737E-15	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
2.39146737E-15	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
5.75959223E-11	2	-24	24	# BR(hh_6 -> Vwm Vwm^*)
2.75484991E-11	2	23	23	# BR(hh_6 -> VZ VZ)
DECAY	2000014	4.22359651E-02	# hh_7	
#	BR	NDA	ID1	ID2
1.28756913E-15	2	22	22	# BR(hh_7 -> VP VP)
6.85639920E-13	2	21	21	# BR(hh_7 -> VG VG)
3.75659998E-15	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
5.70862761E-16	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)
4.37417209E-15	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
9.63226872E-22	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)
6.00465486E-22	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
4.31595185E-17	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)
3.52795114E-16	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)
1.44642832E-22	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)
3.15071591E-25	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6)
2.43799731E-15	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)
3.68657247E-22	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)
5.74848233E-23	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)
4.62712728E-13	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)
1.87421073E-10	2	36	23	# BR(hh_7 -> Ah_2 VZ)
1.50331834E-11	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
9.82420753E-11	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
3.39184866E-23	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
1.12508981E-23	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
1.17992016E-18	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
5.32088035E-16	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
2.74075322E-13	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
3.04398192E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
5.32088035E-16	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
8.23572496E-17	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
2.78227739E-22	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
2.74075322E-13	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
2.38005014E-14	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)
5.46484552E-22	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
3.04398192E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
2.78227739E-22	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
5.46484552E-22	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)

1.02130579E-15	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)	
1.65802549E-14	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)	
7.61761360E-13	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)	
1.52666421E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)	
2.57315539E-02	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)	
6.83582980E-04	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)	
5.07788467E-04	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)	
1.42331300E-01	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)	
9.84495875E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)	
7.86730490E-13	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)	
5.30794624E-13	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)	
1.16045709E-02	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)	
3.08286363E-04	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)	
2.29005496E-04	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)	
6.41894255E-02	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)	
4.43993870E-02	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)	
3.11119609E-14	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)	
2.66166986E-04	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)	
7.07097684E-06	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)	
5.25255983E-06	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)	
1.47227382E-03	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)	
1.01836174E-03	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)	
9.30827164E-13	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)	
1.33109316E-12	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)	
8.89858265E-14	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)	
5.60854961E-16	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)	
9.65846724E-12	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)	
2.36453629E-15	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)	
4.97002591E-15	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)	
3.93189436E-12	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)	
2.95906218E-12	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)	
1.20866295E-15	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6)	
4.86491214E-13	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7)	
1.29608682E-13	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8)	
2.35512297E-14	2	1000039	1000039	# BR(hh_7 -> Chi_7 Chi_7)	
1.47296772E-12	2	1000039	1000045	# BR(hh_7 -> Chi_7 Chi_8)	
7.51257005E-13	2	1000045	1000045	# BR(hh_7 -> Chi_8 Chi_8)	
1.45966632E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)	
5.25028594E-17	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)	
1.40969275E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)	
1.86813438E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)	
4.43793500E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)	
2.72829641E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)	
4.85276191E-15	2	25	25	# BR(hh_7 -> hh_1 hh_1)	
6.27878548E-15	2	25	35	# BR(hh_7 -> hh_1 hh_2)	
4.73566364E-14	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)	
2.51544506E-10	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)	
3.71329207E-21	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)	
4.35897633E-22	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)	
6.41212364E-16	2	35	35	# BR(hh_7 -> hh_2 hh_2)	
5.09679441E-15	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)	
1.59966934E-11	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)	
1.75246899E-22	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)	
1.98983601E-22	2	35	2000012	# BR(hh_7 -> hh_2 hh_6)	
8.42810943E-15	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)	
2.71147364E-11	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)	
5.67624343E-22	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)	
1.51226854E-22	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)	
5.92692891E-12	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)	
3.67364778E-22	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)	
6.00858306E-23	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)	
4.62712727E-13	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)	
2.68327297E-13	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)	
1.51408377E-23	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^*)	
1.51408377E-23	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)	
4.64631992E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^*)	
4.64631992E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm)	
3.23239416E-12	2	-24	24	# BR(hh_7 -> Vwm Vwm^*)	
1.59351941E-12	2	23	23	# BR(hh_7 -> VZ VZ)	
DECAY	2000016	5.84659213E+01	#	hh_8	
#	BR	NDA	ID1	ID2	
1.06655543E-08	2		22	22	# BR(hh_8 -> VP VP)
7.57122486E-07	2		21	21	# BR(hh_8 -> VG VG)

1.79830967E-07	2	36	36	# BR(hh_8 -> Ah_2 Ah_2)
5.33645932E-14	2	36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
4.86829914E-11	2	36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
3.24755566E-18	2	36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
6.45012367E-22	2	36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
4.97804728E-18	2	36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
1.88051382E-07	2	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
5.12916116E-11	2	1000017	1000018	# BR(hh_8 -> Ah_3 Ah_4)
7.67816468E-18	2	1000017	1000019	# BR(hh_8 -> Ah_3 Ah_5)
4.64981541E-18	2	1000017	2000018	# BR(hh_8 -> Ah_3 Ah_6)
1.12276913E-19	2	1000017	2000019	# BR(hh_8 -> Ah_3 Ah_7)
1.84917795E-07	2	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
8.37114189E-14	2	1000018	1000019	# BR(hh_8 -> Ah_4 Ah_5)
4.30578070E-14	2	1000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
5.25868644E-15	2	1000018	2000019	# BR(hh_8 -> Ah_4 Ah_7)
3.50139714E-07	2	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
6.16220188E-26	2	1000019	2000018	# BR(hh_8 -> Ah_5 Ah_6)
7.65985543E-27	2	1000019	2000019	# BR(hh_8 -> Ah_5 Ah_7)
3.36791282E-07	2	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
3.88387301E-27	2	2000018	2000019	# BR(hh_8 -> Ah_6 Ah_7)
3.06376297E-07	2	2000019	2000019	# BR(hh_8 -> Ah_7 Ah_7)
4.22064861E-07	2	36	23	# BR(hh_8 -> Ah_2 VZ)
4.68131681E-07	2	1000017	23	# BR(hh_8 -> Ah_3 VZ)
1.57705880E-02	2	1000018	23	# BR(hh_8 -> Ah_4 VZ)
5.25222060E-15	2	1000019	23	# BR(hh_8 -> Ah_5 VZ)
2.68088934E-15	2	2000018	23	# BR(hh_8 -> Ah_6 VZ)
3.11858534E-16	2	2000019	23	# BR(hh_8 -> Ah_7 VZ)
6.24767990E-09	2	-11	11	# BR(hh_8 -> Cha_1^* Cha_1)
1.23630368E-25	2	-11	13	# BR(hh_8 -> Cha_1^* Cha_2)
6.70597032E-23	2	-11	15	# BR(hh_8 -> Cha_1^* Cha_3)
3.88429175E-16	2	-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)
4.65697862E-14	2	-11	-1000037	# BR(hh_8 -> Cha_1^* Cha_5)
1.23630368E-25	2	-13	11	# BR(hh_8 -> Cha_2^* Cha_1)
2.79097695E-04	2	-13	13	# BR(hh_8 -> Cha_2^* Cha_2)
2.78605493E-22	2	-13	15	# BR(hh_8 -> Cha_2^* Cha_3)
1.91116984E-15	2	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)
1.92176639E-13	2	-13	-1000037	# BR(hh_8 -> Cha_2^* Cha_5)
6.70597032E-23	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
2.78605493E-22	2	-15	13	# BR(hh_8 -> Cha_3^* Cha_2)
8.06590779E-02	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
4.59295895E-14	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
1.00877977E-14	2	-15	-1000037	# BR(hh_8 -> Cha_3^* Cha_5)
3.88429175E-16	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
1.91116984E-15	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
4.59295895E-14	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
1.97251426E-03	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
1.02864003E-01	2	1000024	-1000037	# BR(hh_8 -> Cha_4^* Cha_5)
4.65697862E-14	2	1000037	11	# BR(hh_8 -> Cha_5^* Cha_1)
1.92176639E-13	2	1000037	13	# BR(hh_8 -> Cha_5^* Cha_2)
1.00877977E-14	2	1000037	15	# BR(hh_8 -> Cha_5^* Cha_3)
1.02864003E-01	2	1000037	-1000024	# BR(hh_8 -> Cha_5^* Cha_4)
9.10036431E-29	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
1.99977776E-27	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
2.81299481E-27	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
7.74184202E-17	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
1.20017936E-18	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
9.41859495E-18	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
2.55743549E-16	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
4.42522229E-16	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
3.34605655E-14	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
6.23111682E-14	2	12	1000065	# BR(hh_8 -> Chi_1 Chi_10)
3.80358608E-28	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
1.24044637E-26	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
1.73502180E-17	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
1.75226251E-17	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
6.64552048E-18	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
1.80584422E-15	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
1.96713474E-15	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
4.13830879E-15	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
7.72071355E-15	2	14	1000065	# BR(hh_8 -> Chi_2 Chi_10)
1.76234336E-26	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
1.83813113E-16	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
1.24511094E-16	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)

1.93336453E-17	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
6.26188037E-15	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
1.52269290E-15	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
9.69033987E-14	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
1.80521620E-13	2	16	1000065	# BR(hh_8 -> Chi_3 Chi_10)
4.90151971E-03	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
2.54096544E-04	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
1.86045081E-04	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
8.12850769E-03	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
1.35385143E-02	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
1.21288297E-03	2	1000022	1000055	# BR(hh_8 -> Chi_4 Chi_9)
1.75068963E-03	2	1000022	1000065	# BR(hh_8 -> Chi_4 Chi_10)
1.43561200E-06	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
4.74150279E-06	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
1.95761036E-04	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
3.33366963E-04	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
3.54342320E-05	2	1000023	1000055	# BR(hh_8 -> Chi_5 Chi_9)
5.21190857E-05	2	1000023	1000065	# BR(hh_8 -> Chi_5 Chi_10)
4.92779752E-07	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
1.40313342E-04	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
2.40931337E-04	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
2.71512592E-05	2	1000025	1000055	# BR(hh_8 -> Chi_6 Chi_9)
4.01768064E-05	2	1000025	1000065	# BR(hh_8 -> Chi_6 Chi_10)
6.13559041E-03	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
2.45367839E-03	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
2.39125667E-02	2	1000039	1000055	# BR(hh_8 -> Chi_7 Chi_9)
4.31553031E-02	2	1000039	1000065	# BR(hh_8 -> Chi_7 Chi_10)
2.98142956E-07	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
3.03356498E-02	2	1000045	1000055	# BR(hh_8 -> Chi_8 Chi_9)
5.83559638E-02	2	1000045	1000065	# BR(hh_8 -> Chi_8 Chi_10)
3.09690208E-06	2	1000055	1000055	# BR(hh_8 -> Chi_9 Chi_9)
1.91759779E-06	2	1000055	1000065	# BR(hh_8 -> Chi_9 Chi_10)
4.94661201E-07	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
1.77925142E-04	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
4.77750342E-01	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
1.77745213E-13	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
4.22251082E-08	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
3.29257182E-03	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
7.76173856E-08	2	25	25	# BR(hh_8 -> hh_1 hh_1)
9.67466242E-08	2	25	35	# BR(hh_8 -> hh_1 hh_2)
8.59313296E-07	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
1.03231087E-03	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
1.59974389E-14	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
3.40347593E-15	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
5.09912431E-16	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
3.35625473E-08	2	35	35	# BR(hh_8 -> hh_2 hh_2)
1.38462250E-06	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
1.66897914E-03	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
2.55600916E-14	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
5.26818820E-15	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
6.48148431E-16	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
4.00430195E-06	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
1.49199153E-02	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
2.35053611E-13	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
4.81983927E-14	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)
5.58960089E-15	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
1.76398632E-05	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
1.11709565E-14	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
4.40913034E-15	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
5.94716155E-16	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
3.50139713E-07	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
1.64467209E-25	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
2.08003672E-26	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
3.36791281E-07	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
5.89024800E-27	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7)
3.06376296E-07	2	2000014	2000014	# BR(hh_8 -> hh_7 hh_7)
1.62383804E-08	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
1.74535505E-29	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3)
7.81649912E-30	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4)
8.28880953E-05	2	-37	1000013	# BR(hh_8 -> Hpm_2^* Hpm_5)
1.02696194E-30	2	-37	2000013	# BR(hh_8 -> Hpm_2^* Hpm_6)
1.74535505E-29	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2)
2.02382883E-07	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)

4.08644811E-30	2	-1000011	2000011	# BR(hh_8 -> Hpm_3^* Hpm_4)
6.47758064E-29	2	-1000011	1000013	# BR(hh_8 -> Hpm_3^* Hpm_5)
2.73063315E-10	2	-1000011	2000013	# BR(hh_8 -> Hpm_3^* Hpm_6)
7.81649912E-30	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2)
4.08644811E-30	2	-2000011	1000011	# BR(hh_8 -> Hpm_4^* Hpm_3)
1.84790599E-07	2	-2000011	2000011	# BR(hh_8 -> Hpm_4^* Hpm_4)
5.78648681E-15	2	-2000011	1000015	# BR(hh_8 -> Hpm_4^* Hpm_7)
8.28880953E-05	2	-1000013	37	# BR(hh_8 -> Hpm_5^* Hpm_2)
6.47758064E-29	2	-1000013	1000011	# BR(hh_8 -> Hpm_5^* Hpm_3)
5.06062577E-08	2	-1000013	1000013	# BR(hh_8 -> Hpm_5^* Hpm_5)
1.02696194E-30	2	-2000013	37	# BR(hh_8 -> Hpm_6^* Hpm_2)
2.73063315E-10	2	-2000013	1000011	# BR(hh_8 -> Hpm_6^* Hpm_3)
1.09108876E-07	2	-2000013	2000013	# BR(hh_8 -> Hpm_6^* Hpm_6)
5.78648681E-15	2	-1000015	2000011	# BR(hh_8 -> Hpm_7^* Hpm_4)
1.09555028E-07	2	-1000015	1000015	# BR(hh_8 -> Hpm_7^* Hpm_7)
3.69224194E-16	2	37	24	# BR(hh_8 -> Hpm_2 VWm^*)
3.69224194E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* VWm)
2.95663977E-15	2	1000011	24	# BR(hh_8 -> Hpm_3 VWm^*)
2.95663977E-15	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* VWm)
2.82022598E-15	2	2000011	24	# BR(hh_8 -> Hpm_4 VWm^*)
2.82022598E-15	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* VWm)
3.22798158E-16	2	1000013	24	# BR(hh_8 -> Hpm_5 VWm^*)
3.22798158E-16	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* VWm)
1.36516311E-19	2	2000013	24	# BR(hh_8 -> Hpm_6 VWm^*)
1.36516311E-19	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* VWm)
6.67140225E-25	2	1000015	24	# BR(hh_8 -> Hpm_7 VWm^*)
6.67140225E-25	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* VWm)
3.73339086E-07	2	-1000001	1000001	# BR(hh_8 -> Sd_1^* Sd_1)
5.73350803E-04	2	-1000001	2000005	# BR(hh_8 -> Sd_1^* Sd_6)
3.69373372E-08	2	-1000003	1000003	# BR(hh_8 -> Sd_2^* Sd_2)
1.07824673E-09	2	-1000003	2000003	# BR(hh_8 -> Sd_2^* Sd_5)
3.66219605E-08	2	-1000005	1000005	# BR(hh_8 -> Sd_3^* Sd_3)
3.02792163E-12	2	-1000005	2000001	# BR(hh_8 -> Sd_3^* Sd_4)
3.02792163E-12	2	-2000001	1000005	# BR(hh_8 -> Sd_4^* Sd_3)
1.17135560E-06	2	-2000001	2000001	# BR(hh_8 -> Sd_4^* Sd_4)
1.07824673E-09	2	-2000003	1000003	# BR(hh_8 -> Sd_5^* Sd_2)
1.16858026E-06	2	-2000003	2000003	# BR(hh_8 -> Sd_5^* Sd_5)
5.73350803E-04	2	-2000005	1000001	# BR(hh_8 -> Sd_6^* Sd_1)
7.95666813E-07	2	-1000002	1000002	# BR(hh_8 -> Su_1^* Su_1)
7.64887462E-16	2	-1000002	1000004	# BR(hh_8 -> Su_1^* Su_2)
6.32583851E-14	2	-1000002	1000006	# BR(hh_8 -> Su_1^* Su_3)
1.02411788E-10	2	-1000002	2000002	# BR(hh_8 -> Su_1^* Su_4)
2.54642639E-13	2	-1000002	2000004	# BR(hh_8 -> Su_1^* Su_5)
7.61075383E-14	2	-1000002	2000006	# BR(hh_8 -> Su_1^* Su_6)
7.64887462E-16	2	-1000004	1000002	# BR(hh_8 -> Su_2^* Su_1)
7.85936220E-07	2	-1000004	1000004	# BR(hh_8 -> Su_2^* Su_2)
4.30221206E-16	2	-1000004	1000006	# BR(hh_8 -> Su_2^* Su_3)
1.50040043E-08	2	-1000004	2000002	# BR(hh_8 -> Su_2^* Su_4)
6.92447047E-07	2	-1000004	2000004	# BR(hh_8 -> Su_2^* Su_5)
2.07609737E-07	2	-1000004	2000006	# BR(hh_8 -> Su_2^* Su_6)
6.32583851E-14	2	-1000006	1000002	# BR(hh_8 -> Su_3^* Su_1)
4.30221206E-16	2	-1000006	1000004	# BR(hh_8 -> Su_3^* Su_2)
1.46577916E-07	2	-1000006	1000006	# BR(hh_8 -> Su_3^* Su_3)
1.18249694E-24	2	-1000006	2000002	# BR(hh_8 -> Su_3^* Su_4)
4.26525406E-19	2	-1000006	2000004	# BR(hh_8 -> Su_3^* Su_5)
3.71685832E-20	2	-1000006	2000006	# BR(hh_8 -> Su_3^* Su_6)
1.02411788E-10	2	-2000002	1000002	# BR(hh_8 -> Su_4^* Su_1)
1.50040043E-08	2	-2000002	1000004	# BR(hh_8 -> Su_4^* Su_2)
1.18249694E-24	2	-2000002	1000006	# BR(hh_8 -> Su_4^* Su_3)
1.46806912E-07	2	-2000002	2000002	# BR(hh_8 -> Su_4^* Su_4)
1.46574865E-11	2	-2000002	2000004	# BR(hh_8 -> Su_4^* Su_5)
1.27730318E-12	2	-2000002	2000006	# BR(hh_8 -> Su_4^* Su_6)
2.54642639E-13	2	-2000004	1000002	# BR(hh_8 -> Su_5^* Su_1)
6.92447047E-07	2	-2000004	1000004	# BR(hh_8 -> Su_5^* Su_2)
4.26525406E-19	2	-2000004	1000006	# BR(hh_8 -> Su_5^* Su_3)
1.46574865E-11	2	-2000004	2000002	# BR(hh_8 -> Su_5^* Su_4)
7.61075383E-14	2	-2000006	1000002	# BR(hh_8 -> Su_6^* Su_1)
2.07609737E-07	2	-2000006	1000004	# BR(hh_8 -> Su_6^* Su_2)
3.71685832E-20	2	-2000006	1000006	# BR(hh_8 -> Su_6^* Su_3)
1.27730318E-12	2	-2000006	2000002	# BR(hh_8 -> Su_6^* Su_4)
1.29489567E-06	2	-24	24	# BR(hh_8 -> VWm VWm^*)
6.49507404E-07	2	23	23	# BR(hh_8 -> VZ VZ)

#	BR	NDA	ID1	ID2	
	5.00754503E-05	2	22	22	# BR(Ah_2 -> VP VP)
	4.26250277E-04	2	21	21	# BR(Ah_2 -> VG VG)
	1.13200490E-08	2	-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
	5.48554607E-20	2	-11	13	# BR(Ah_2 -> Cha_1^* Cha_2)
	1.47993261E-17	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
	5.48554607E-20	2	-13	11	# BR(Ah_2 -> Cha_2^* Cha_1)
	5.05683070E-04	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
	9.13481178E-18	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
	1.47993261E-17	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
	9.13481178E-18	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
	1.45441471E-01	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
	1.83431812E-20	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1)
	4.59260115E-22	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2)
	1.35416662E-18	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3)
	1.16673718E-19	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2)
	1.02653304E-18	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3)
	1.88349155E-18	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3)
	8.96267158E-07	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
	3.22378770E-04	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
	8.53252822E-01	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
	1.73604306E-12	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
	4.12026535E-07	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)

DECAY 1000017 1.02231684E-09 # Ah_3

#	BR	NDA	ID1	ID2	
	5.02178821E-05	2	22	22	# BR(Ah_3 -> VP VP)
	3.99032709E-04	2	21	21	# BR(Ah_3 -> VG VG)
	1.13202674E-08	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
	3.18532327E-21	2	-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)
	1.40741205E-17	2	-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
	3.18532327E-21	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
	5.05692831E-04	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
	1.05820296E-16	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
	1.40741205E-17	2	-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
	1.05820296E-16	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
	1.45444656E-01	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
	2.46896676E-21	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
	1.11323700E-18	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
	2.70414541E-18	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
	3.85492891E-18	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
	3.28807585E-19	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
	1.91982104E-20	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)
	8.96284450E-07	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
	3.22384990E-04	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
	8.53276772E-01	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
	1.41739419E-12	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
	3.36399696E-07	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)

DECAY 1000018 3.59036801E-05 # Ah_4

#	BR	NDA	ID1	ID2	
	5.76968655E-05	2	22	22	# BR(Ah_4 -> VP VP)
	7.15583618E-05	2	21	21	# BR(Ah_4 -> VG VG)
	1.13119031E-08	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
	1.37280461E-27	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
	6.72901243E-25	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
	1.37280461E-27	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
	5.05319809E-04	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
	2.05541640E-24	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
	6.72901243E-25	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
	2.05541640E-24	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
	1.45388392E-01	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
	2.30643745E-24	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1)
	1.46851379E-24	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2)
	2.67220616E-24	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3)
	1.49243908E-23	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2)
	2.52708844E-22	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3)
	4.01492492E-24	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3)
	8.95622204E-07	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
	3.22146828E-04	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
	8.53653906E-01	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
	3.09294963E-13	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
	7.34128446E-08	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)

DECAY 1000019 1.81513162E-01 # Ah_5

#	BR	NDA	ID1	ID2
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7.06750927E-16	2		22	22	# BR(Ah_5 -> VP VP)
2.32847494E-13	2		21	21	# BR(Ah_5 -> VG VG)
8.77881323E-17	2		25	36	# BR(Ah_5 -> hh_1 Ah_2)
1.33059885E-15	2		25	1000017	# BR(Ah_5 -> hh_1 Ah_3)
7.11408438E-16	2		25	1000018	# BR(Ah_5 -> hh_1 Ah_4)
5.91860777E-16	2		35	36	# BR(Ah_5 -> hh_2 Ah_2)
9.29950761E-15	2		35	1000017	# BR(Ah_5 -> hh_2 Ah_3)
4.95264649E-15	2		35	1000018	# BR(Ah_5 -> hh_2 Ah_4)
3.30017071E-16	2	1000012		36	# BR(Ah_5 -> hh_3 Ah_2)
5.14566347E-15	2	1000012		1000017	# BR(Ah_5 -> hh_3 Ah_3)
2.72412120E-15	2	1000012		1000018	# BR(Ah_5 -> hh_3 Ah_4)
7.79659259E-13	2	1000014		36	# BR(Ah_5 -> hh_4 Ah_2)
1.21903198E-11	2	1000014		1000017	# BR(Ah_5 -> hh_4 Ah_3)
6.61528300E-12	2	1000014		1000018	# BR(Ah_5 -> hh_4 Ah_4)
1.21313727E-21	2		-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
4.22323990E-13	2		-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
2.40492910E-23	2		-11	-1000024	# BR(Ah_5 -> Cha_1^* Cha_4)
5.41935078E-17	2		-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
1.75444018E-12	2		-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
6.76287541E-20	2		-13	-1000024	# BR(Ah_5 -> Cha_2^* Cha_4)
4.22323990E-13	2		-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
1.75444018E-12	2		-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
1.29467155E-13	2		-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)
4.92749899E-01	2		-15	-1000024	# BR(Ah_5 -> Cha_3^* Cha_4)
2.40492910E-23	2	1000024		11	# BR(Ah_5 -> Cha_4^* Cha_1)
6.76287541E-20	2	1000024		13	# BR(Ah_5 -> Cha_4^* Cha_2)
4.92749899E-01	2	1000024		15	# BR(Ah_5 -> Cha_4^* Cha_3)
4.08791511E-16	2		12	12	# BR(Ah_5 -> Chi_1 Chi_1)
2.86986048E-14	2		12	14	# BR(Ah_5 -> Chi_1 Chi_2)
4.09136062E-14	2		12	16	# BR(Ah_5 -> Chi_1 Chi_3)
5.78677182E-04	2		12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
1.51597591E-05	2		12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
1.12050106E-05	2		12	1000025	# BR(Ah_5 -> Chi_1 Chi_6)
1.80826806E-03	2		12	1000039	# BR(Ah_5 -> Chi_1 Chi_7)
1.21532034E-03	2		12	1000045	# BR(Ah_5 -> Chi_1 Chi_8)
1.09005871E-13	2		14	14	# BR(Ah_5 -> Chi_2 Chi_2)
1.64987193E-13	2		14	16	# BR(Ah_5 -> Chi_2 Chi_3)
1.46660336E-03	2		14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
3.84209958E-05	2		14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
2.83980544E-05	2		14	1000025	# BR(Ah_5 -> Chi_2 Chi_6)
4.58288679E-03	2		14	1000039	# BR(Ah_5 -> Chi_2 Chi_7)
3.08011608E-03	2		14	1000045	# BR(Ah_5 -> Chi_2 Chi_8)
3.42341890E-14	2		16	16	# BR(Ah_5 -> Chi_3 Chi_3)
2.67144678E-04	2		16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
6.99845975E-06	2		16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
5.17276130E-06	2		16	1000025	# BR(Ah_5 -> Chi_3 Chi_6)
8.34781817E-04	2		16	1000039	# BR(Ah_5 -> Chi_3 Chi_7)
5.61049185E-04	2		16	1000045	# BR(Ah_5 -> Chi_3 Chi_8)
5.92304936E-14	2	1000022		1000022	# BR(Ah_5 -> Chi_4 Chi_4)
2.74293079E-16	2	1000022		1000023	# BR(Ah_5 -> Chi_4 Chi_5)
2.16762892E-14	2	1000022		1000025	# BR(Ah_5 -> Chi_4 Chi_6)
6.91336538E-13	2	1000022		1000039	# BR(Ah_5 -> Chi_4 Chi_7)
4.02108812E-13	2	1000022		1000045	# BR(Ah_5 -> Chi_4 Chi_8)
2.71193022E-16	2	1000023		1000023	# BR(Ah_5 -> Chi_5 Chi_5)
1.64094576E-14	2	1000023		1000025	# BR(Ah_5 -> Chi_5 Chi_6)
2.60002499E-14	2	1000023		1000039	# BR(Ah_5 -> Chi_5 Chi_7)
6.32983566E-15	2	1000023		1000045	# BR(Ah_5 -> Chi_5 Chi_8)
1.41409096E-13	2	1000025		1000025	# BR(Ah_5 -> Chi_6 Chi_6)
7.42450150E-14	2	1000025		1000039	# BR(Ah_5 -> Chi_6 Chi_7)
2.70317078E-18	2	1000025		1000045	# BR(Ah_5 -> Chi_6 Chi_8)
9.60503867E-20	2		-1	1	# BR(Ah_5 -> Fd_1^* Fd_1)
3.45484460E-17	2		-3	3	# BR(Ah_5 -> Fd_2^* Fd_2)
9.27469619E-14	2		-5	5	# BR(Ah_5 -> Fd_3^* Fd_3)
1.53908646E-20	2		-2	2	# BR(Ah_5 -> Fu_1^* Fu_1)
3.65622040E-15	2		-4	4	# BR(Ah_5 -> Fu_2^* Fu_2)
2.51658989E-13	2		25	23	# BR(Ah_5 -> hh_1 VZ)
3.05792271E-12	2		35	23	# BR(Ah_5 -> hh_2 VZ)
7.54025185E-12	2	1000012		23	# BR(Ah_5 -> hh_3 VZ)
1.28457353E-12	2	1000014		23	# BR(Ah_5 -> hh_4 VZ)

DECAY 2000018 2.60672731E-02 # Ah_6

#	BR	NDA	ID1	ID2	
1.62463026E-14	2		22	22	# BR(Ah_6 -> VP VP)
8.68717832E-12	2		21	21	# BR(Ah_6 -> VG VG)

2.66753282E-14	2		25	36	# BR(Ah_6 -> hh_1 Ah_2)
2.58361002E-14	2		25	1000017	# BR(Ah_6 -> hh_1 Ah_3)
2.50046828E-14	2		25	1000018	# BR(Ah_6 -> hh_1 Ah_4)
4.60424949E-22	2		25	1000019	# BR(Ah_6 -> hh_1 Ah_5)
2.94071068E-14	2		35	36	# BR(Ah_6 -> hh_2 Ah_2)
2.86897608E-14	2		35	1000017	# BR(Ah_6 -> hh_2 Ah_3)
2.64235146E-14	2		35	1000018	# BR(Ah_6 -> hh_2 Ah_4)
1.49117179E-21	2		35	1000019	# BR(Ah_6 -> hh_2 Ah_5)
6.74718659E-15	2	1000012		36	# BR(Ah_6 -> hh_3 Ah_2)
6.62225641E-15	2	1000012		1000017	# BR(Ah_6 -> hh_3 Ah_3)
7.23252321E-15	2	1000012		1000018	# BR(Ah_6 -> hh_3 Ah_4)
1.21745452E-21	2	1000012		1000019	# BR(Ah_6 -> hh_3 Ah_5)
2.81417479E-10	2	1000014		36	# BR(Ah_6 -> hh_4 Ah_2)
2.74188988E-10	2	1000014		1000017	# BR(Ah_6 -> hh_4 Ah_3)
2.76036607E-10	2	1000014		1000018	# BR(Ah_6 -> hh_4 Ah_4)
7.95871615E-23	2	1000014		1000019	# BR(Ah_6 -> hh_4 Ah_5)
3.54376622E-21	2	1000016		36	# BR(Ah_6 -> hh_5 Ah_2)
5.08521407E-21	2	1000016		1000017	# BR(Ah_6 -> hh_5 Ah_3)
2.92364703E-21	2	1000016		1000018	# BR(Ah_6 -> hh_5 Ah_4)
1.01589803E-20	2	-11		11	# BR(Ah_6 -> Cha_1^* Cha_1)
2.15459053E-14	2	-11		13	# BR(Ah_6 -> Cha_1^* Cha_2)
3.05228982E-29	2	-11		15	# BR(Ah_6 -> Cha_1^* Cha_3)
2.60213600E-22	2	-11	-1000024		# BR(Ah_6 -> Cha_1^* Cha_4)
2.15459053E-14	2	-13		11	# BR(Ah_6 -> Cha_2^* Cha_1)
1.69693534E-13	2	-13		13	# BR(Ah_6 -> Cha_2^* Cha_2)
2.77055929E-13	2	-13		15	# BR(Ah_6 -> Cha_2^* Cha_3)
3.20734142E-01	2	-13	-1000024		# BR(Ah_6 -> Cha_2^* Cha_4)
3.05228982E-29	2	-15		11	# BR(Ah_6 -> Cha_3^* Cha_1)
2.77055929E-13	2	-15		13	# BR(Ah_6 -> Cha_3^* Cha_2)
1.31151534E-13	2	-15		15	# BR(Ah_6 -> Cha_3^* Cha_3)
6.11080327E-17	2	-15	-1000024		# BR(Ah_6 -> Cha_3^* Cha_4)
2.60213600E-22	2	1000024		11	# BR(Ah_6 -> Cha_4^* Cha_1)
3.20734142E-01	2	1000024		13	# BR(Ah_6 -> Cha_4^* Cha_2)
6.11080327E-17	2	1000024		15	# BR(Ah_6 -> Cha_4^* Cha_3)
3.07572642E-13	2	1000024	-1000024		# BR(Ah_6 -> Cha_4^* Cha_4)
1.57605874E-15	2	12		12	# BR(Ah_6 -> Chi_1 Chi_1)
9.87078515E-14	2	12		14	# BR(Ah_6 -> Chi_1 Chi_2)
7.57927201E-14	2	12		16	# BR(Ah_6 -> Chi_1 Chi_3)
2.41266687E-03	2	12	1000022		# BR(Ah_6 -> Chi_1 Chi_4)
6.39644531E-05	2	12	1000023		# BR(Ah_6 -> Chi_1 Chi_5)
4.74805017E-05	2	12	1000025		# BR(Ah_6 -> Chi_1 Chi_6)
1.23945942E-02	2	12	1000039		# BR(Ah_6 -> Chi_1 Chi_7)
8.54540114E-03	2	12	1000045		# BR(Ah_6 -> Chi_1 Chi_8)
1.44828516E-13	2	14		14	# BR(Ah_6 -> Chi_2 Chi_2)
4.91344614E-13	2	14		16	# BR(Ah_6 -> Chi_2 Chi_3)
2.10720765E-03	2	14	1000022		# BR(Ah_6 -> Chi_2 Chi_4)
5.58661401E-05	2	14	1000023		# BR(Ah_6 -> Chi_2 Chi_5)
4.14691635E-05	2	14	1000025		# BR(Ah_6 -> Chi_2 Chi_6)
1.08253585E-02	2	14	1000039		# BR(Ah_6 -> Chi_2 Chi_7)
7.46349814E-03	2	14	1000045		# BR(Ah_6 -> Chi_2 Chi_8)
3.83300584E-12	2	16		16	# BR(Ah_6 -> Chi_3 Chi_3)
3.23456910E-02	2	16	1000022		# BR(Ah_6 -> Chi_3 Chi_4)
8.57546670E-04	2	16	1000023		# BR(Ah_6 -> Chi_3 Chi_5)
6.36552713E-04	2	16	1000025		# BR(Ah_6 -> Chi_3 Chi_6)
1.66169528E-01	2	16	1000039		# BR(Ah_6 -> Chi_3 Chi_7)
1.14564886E-01	2	16	1000045		# BR(Ah_6 -> Chi_3 Chi_8)
4.33090007E-12	2	1000022		1000022	# BR(Ah_6 -> Chi_4 Chi_4)
9.70371507E-13	2	1000022		1000023	# BR(Ah_6 -> Chi_4 Chi_5)
8.82921010E-16	2	1000022		1000025	# BR(Ah_6 -> Chi_4 Chi_6)
2.68504722E-11	2	1000022		1000039	# BR(Ah_6 -> Chi_4 Chi_7)
1.57288007E-12	2	1000022		1000045	# BR(Ah_6 -> Chi_4 Chi_8)
1.69516001E-13	2	1000023		1000023	# BR(Ah_6 -> Chi_5 Chi_5)
6.19225543E-13	2	1000023		1000025	# BR(Ah_6 -> Chi_5 Chi_6)
1.27309208E-11	2	1000023		1000039	# BR(Ah_6 -> Chi_5 Chi_7)
6.50480120E-12	2	1000023		1000045	# BR(Ah_6 -> Chi_5 Chi_8)
2.41138728E-13	2	1000025		1000025	# BR(Ah_6 -> Chi_6 Chi_6)
2.93711709E-12	2	1000025		1000039	# BR(Ah_6 -> Chi_6 Chi_7)
6.52456215E-12	2	1000025		1000045	# BR(Ah_6 -> Chi_6 Chi_8)
1.44629498E-11	2	1000039		1000039	# BR(Ah_6 -> Chi_7 Chi_7)
1.91596772E-12	2	1000039		1000045	# BR(Ah_6 -> Chi_7 Chi_8)
2.58018633E-15	2	1000045		1000045	# BR(Ah_6 -> Chi_8 Chi_8)
8.04339299E-19	2	-1		1	# BR(Ah_6 -> Fd_1^* Fd_1)
2.89313485E-16	2	-3		3	# BR(Ah_6 -> Fd_2^* Fd_2)

7.76816279E-13	2		-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
1.23487659E-19	2		-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)
2.93357351E-14	2		-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
1.82291309E-09	2		-6	6	# BR(Ah_6 -> Fu_3^* Fu_3)
8.91663031E-11	2		25	23	# BR(Ah_6 -> hh_1 VZ)
4.72258806E-10	2		35	23	# BR(Ah_6 -> hh_2 VZ)
1.39063666E-10	2	1000012		23	# BR(Ah_6 -> hh_3 VZ)
4.25392897E-11	2	1000014		23	# BR(Ah_6 -> hh_4 VZ)
1.06209256E-21	2	1000016		23	# BR(Ah_6 -> hh_5 VZ)
2.39381088E-15	2		37	24	# BR(Ah_6 -> Hpm_2 Vwm^*)
2.39381088E-15	2		-37	-24	# BR(Ah_6 -> Hpm_2^* Vwm)
DECAY	2000019	4.22359651E-02	#	Ah_7	
#	BR	NDA	ID1	ID2	
1.68000055E-15	2		22	22	# BR(Ah_7 -> VP VP)
9.01804708E-13	2		21	21	# BR(Ah_7 -> VG VG)
2.63283879E-15	2		25	36	# BR(Ah_7 -> hh_1 Ah_2)
2.09007998E-16	2		25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
1.00541131E-15	2		25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
1.15699765E-21	2		25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
3.28529507E-22	2		25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
1.26391973E-15	2		35	36	# BR(Ah_7 -> hh_2 Ah_2)
9.75956218E-17	2		35	1000017	# BR(Ah_7 -> hh_2 Ah_3)
7.25481066E-16	2		35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
5.00751379E-23	2		35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
1.56805672E-22	2		35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
2.16120743E-14	2	1000012		36	# BR(Ah_7 -> hh_3 Ah_2)
1.73961107E-15	2	1000012		1000017	# BR(Ah_7 -> hh_3 Ah_3)
1.16107795E-14	2	1000012		1000018	# BR(Ah_7 -> hh_3 Ah_4)
1.96251705E-22	2	1000012		1000019	# BR(Ah_7 -> hh_3 Ah_5)
1.18699844E-22	2	1000012		2000018	# BR(Ah_7 -> hh_3 Ah_6)
1.92615268E-10	2	1000014		36	# BR(Ah_7 -> hh_4 Ah_2)
1.54491617E-11	2	1000014		1000017	# BR(Ah_7 -> hh_4 Ah_3)
1.00578854E-10	2	1000014		1000018	# BR(Ah_7 -> hh_4 Ah_4)
6.37804358E-24	2	1000014		1000019	# BR(Ah_7 -> hh_4 Ah_5)
2.38970033E-24	2	1000014		2000018	# BR(Ah_7 -> hh_4 Ah_6)
2.97478897E-21	2	1000016		36	# BR(Ah_7 -> hh_5 Ah_2)
3.16277338E-22	2	1000016		1000017	# BR(Ah_7 -> hh_5 Ah_3)
1.37631997E-21	2	1000016		1000018	# BR(Ah_7 -> hh_5 Ah_4)
7.09702562E-22	2	2000012		36	# BR(Ah_7 -> hh_6 Ah_2)
6.63432395E-25	2	2000012		1000017	# BR(Ah_7 -> hh_6 Ah_3)
1.03629363E-22	2	2000012		1000018	# BR(Ah_7 -> hh_6 Ah_4)
9.37474232E-19	2		-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)
5.32088035E-16	2		-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
2.74075322E-13	2		-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
3.04398192E-01	2		-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
5.32088035E-16	2		-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
7.59963651E-17	2		-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
2.40933718E-22	2		-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
2.74075322E-13	2		-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
2.19627211E-14	2		-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
4.67221357E-22	2		-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
3.04398192E-01	2	1000024		11	# BR(Ah_7 -> Cha_4^* Cha_1)
2.40933718E-22	2	1000024		13	# BR(Ah_7 -> Cha_4^* Cha_2)
4.67221357E-22	2	1000024		15	# BR(Ah_7 -> Cha_4^* Cha_3)
5.93581326E-15	2	1000024		-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
1.65802549E-14	2		12	12	# BR(Ah_7 -> Chi_1 Chi_1)
7.61761360E-13	2		12	14	# BR(Ah_7 -> Chi_1 Chi_2)
1.52666421E-12	2		12	16	# BR(Ah_7 -> Chi_1 Chi_3)
2.57315539E-02	2		12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
6.83582980E-04	2		12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
5.07788467E-04	2		12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
1.42331300E-01	2		12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
9.84495875E-02	2		12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
7.86730489E-13	2		14	14	# BR(Ah_7 -> Chi_2 Chi_2)
5.30794624E-13	2		14	16	# BR(Ah_7 -> Chi_2 Chi_3)
1.16045709E-02	2		14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
3.08286363E-04	2		14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
2.29005496E-04	2		14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
6.41894255E-02	2		14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
4.43993870E-02	2		14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
3.11119608E-14	2		16	16	# BR(Ah_7 -> Chi_3 Chi_3)
2.66166986E-04	2		16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
7.07097684E-06	2		16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)

5.25255983E-06	2	16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
1.47227382E-03	2	16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
1.01836174E-03	2	16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
1.26943795E-12	2	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4)
6.23843830E-15	2	1000022	1000023	# BR(Ah_7 -> Chi_4 Chi_5)
1.05939868E-14	2	1000022	1000025	# BR(Ah_7 -> Chi_4 Chi_6)
7.35889663E-12	2	1000022	1000039	# BR(Ah_7 -> Chi_4 Chi_7)
5.39265819E-14	2	1000022	1000045	# BR(Ah_7 -> Chi_4 Chi_8)
1.57008516E-13	2	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5)
4.22990594E-14	2	1000023	1000025	# BR(Ah_7 -> Chi_5 Chi_6)
1.83222395E-12	2	1000023	1000039	# BR(Ah_7 -> Chi_5 Chi_7)
3.38758744E-12	2	1000023	1000045	# BR(Ah_7 -> Chi_5 Chi_8)
2.06180025E-15	2	1000025	1000025	# BR(Ah_7 -> Chi_6 Chi_6)
7.13809162E-14	2	1000025	1000039	# BR(Ah_7 -> Chi_6 Chi_7)
3.98597005E-13	2	1000025	1000045	# BR(Ah_7 -> Chi_6 Chi_8)
2.41388673E-12	2	1000039	1000039	# BR(Ah_7 -> Chi_7 Chi_7)
5.78652111E-13	2	1000039	1000045	# BR(Ah_7 -> Chi_7 Chi_8)
1.43840328E-14	2	1000045	1000045	# BR(Ah_7 -> Chi_8 Chi_8)
1.34692849E-19	2	-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
4.84477830E-17	2	-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
1.30087090E-13	2	-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
1.71623505E-20	2	-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
4.07709318E-15	2	-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
3.01136675E-10	2	-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
2.45193254E-10	2	25	23	# BR(Ah_7 -> hh_1 VZ)
1.56986260E-11	2	35	23	# BR(Ah_7 -> hh_2 VZ)
2.68983563E-11	2	1000012	23	# BR(Ah_7 -> hh_3 VZ)
2.83316106E-12	2	1000014	23	# BR(Ah_7 -> hh_4 VZ)
6.93933767E-23	2	1000016	23	# BR(Ah_7 -> hh_5 VZ)
1.23522445E-23	2	2000012	23	# BR(Ah_7 -> hh_6 VZ)
3.50258248E-24	2	37	24	# BR(Ah_7 -> Hpm_2 VWm^*)
3.50258248E-24	2	-37	-24	# BR(Ah_7 -> Hpm_2^* VWm)
1.37280656E-24	2	1000011	24	# BR(Ah_7 -> Hpm_3 VWm^*)
1.37280656E-24	2	-1000011	-24	# BR(Ah_7 -> Hpm_3^* VWm)
DECAY	2000020	5.84613526E+01	# Ah_8	
#	BR	NDA	ID1	ID2
3.93934820E-08	2	22	22	# BR(Ah_8 -> VP VP)
9.97623277E-06	2	21	21	# BR(Ah_8 -> VG VG)
3.38026156E-07	2	25	36	# BR(Ah_8 -> hh_1 Ah_2)
5.38500124E-09	2	25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
3.89114104E-07	2	25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
5.20896648E-15	2	25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
2.75182392E-15	2	25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
4.49103220E-16	2	25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
1.26680048E-08	2	35	36	# BR(Ah_8 -> hh_2 Ah_2)
3.31911751E-07	2	35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
6.35082637E-07	2	35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
8.38775496E-15	2	35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
3.97836965E-15	2	35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
5.87590907E-16	2	35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
1.16360507E-08	2	1000012	36	# BR(Ah_8 -> hh_3 Ah_2)
4.16224037E-08	2	1000012	1000017	# BR(Ah_8 -> hh_3 Ah_3)
5.75446368E-06	2	1000012	1000018	# BR(Ah_8 -> hh_3 Ah_4)
7.57168630E-14	2	1000012	1000019	# BR(Ah_8 -> hh_3 Ah_5)
3.77572340E-14	2	1000012	2000018	# BR(Ah_8 -> hh_3 Ah_6)
5.09069746E-15	2	1000012	2000019	# BR(Ah_8 -> hh_3 Ah_7)
4.42380048E-07	2	1000014	36	# BR(Ah_8 -> hh_4 Ah_2)
4.90710066E-07	2	1000014	1000017	# BR(Ah_8 -> hh_4 Ah_3)
1.65288427E-02	2	1000014	1000018	# BR(Ah_8 -> hh_4 Ah_4)
7.21618195E-15	2	1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5)
3.60905072E-15	2	1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6)
4.84524126E-16	2	1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7)
9.10612905E-18	2	1000016	36	# BR(Ah_8 -> hh_5 Ah_2)
1.84343808E-17	2	1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3)
2.57987877E-13	2	1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4)
2.62833687E-25	2	1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5)
1.32518309E-25	2	1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6)
1.75547350E-26	2	1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7)
8.45033808E-20	2	2000012	36	# BR(Ah_8 -> hh_6 Ah_2)
4.69921704E-18	2	2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3)
5.44172410E-14	2	2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4)
7.68292884E-26	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5)
3.83664795E-26	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6)

5.08217368E-27	2	2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7)
5.11747358E-18	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2)
1.08996469E-19	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3)
5.76508981E-15	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4)
9.02120046E-27	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
4.51314887E-27	2	2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6)
5.85022950E-28	2	2000014	2000019	# BR(Ah_8 -> hh_7 Ah_7)
6.24813251E-09	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
1.24815014E-25	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
6.76870800E-23	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
4.47228765E-16	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
4.65359053E-14	2	-11	-1000037	# BR(Ah_8 -> Cha_1^* Cha_5)
1.24815014E-25	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
2.79117915E-04	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
2.81205220E-22	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
2.06482899E-15	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
1.92005356E-13	2	-13	-1000037	# BR(Ah_8 -> Cha_2^* Cha_5)
6.76870800E-23	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
2.81205220E-22	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
8.06650268E-02	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
3.15010118E-14	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
1.00533353E-14	2	-15	-1000037	# BR(Ah_8 -> Cha_3^* Cha_5)
4.47228765E-16	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
2.06482899E-15	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
3.15010118E-14	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
2.00801921E-03	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
1.02842802E-01	2	1000024	-1000037	# BR(Ah_8 -> Cha_4^* Cha_5)
4.65359053E-14	2	1000037	11	# BR(Ah_8 -> Cha_5^* Cha_1)
1.92005356E-13	2	1000037	13	# BR(Ah_8 -> Cha_5^* Cha_2)
1.00533353E-14	2	1000037	15	# BR(Ah_8 -> Cha_5^* Cha_3)
1.02842802E-01	2	1000037	-1000024	# BR(Ah_8 -> Cha_5^* Cha_4)
9.08555079E-29	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
1.99397268E-27	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
2.80308818E-27	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
5.94160094E-17	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
1.61270513E-18	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
1.03581910E-17	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
2.19223902E-16	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
3.85823663E-16	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
3.34861556E-14	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
6.23250945E-14	2	12	1000065	# BR(Ah_8 -> Chi_1 Chi_10)
4.01827137E-28	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
1.26459307E-26	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
2.80206675E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
4.71731052E-18	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
1.85118532E-17	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
3.16516420E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
7.94592061E-16	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
4.03368136E-15	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
7.65433021E-15	2	14	1000065	# BR(Ah_8 -> Chi_2 Chi_10)
1.79232954E-26	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
9.94194089E-16	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
1.97008253E-16	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
3.73129840E-18	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
9.76234593E-15	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
2.53432597E-16	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
9.61817364E-14	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
1.80068071E-13	2	16	1000065	# BR(Ah_8 -> Chi_3 Chi_10)
5.28882776E-03	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
2.66756718E-04	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
1.95562182E-04	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
1.06659996E-02	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
1.33530930E-02	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
6.05279009E-04	2	1000022	1000055	# BR(Ah_8 -> Chi_4 Chi_9)
1.54712597E-03	2	1000022	1000065	# BR(Ah_8 -> Chi_4 Chi_10)
5.90522209E-06	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
5.00381840E-06	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
2.64214878E-04	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
3.28937043E-04	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
1.91869479E-05	2	1000023	1000055	# BR(Ah_8 -> Chi_5 Chi_9)
4.75260166E-05	2	1000023	1000065	# BR(Ah_8 -> Chi_5 Chi_10)
3.80123481E-06	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)
1.91356108E-04	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)

2.37746204E-04	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
1.50864964E-05	2	1000025	1000055	# BR(Ah_8 -> Chi_6 Chi_9)
3.70083050E-05	2	1000025	1000065	# BR(Ah_8 -> Chi_6 Chi_10)
4.94251652E-04	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
3.21798158E-03	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)
3.05783847E-02	2	1000039	1000055	# BR(Ah_8 -> Chi_7 Chi_9)
5.84739639E-02	2	1000039	1000065	# BR(Ah_8 -> Chi_7 Chi_10)
2.03190495E-03	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
2.42780236E-02	2	1000045	1000055	# BR(Ah_8 -> Chi_8 Chi_9)
4.32099899E-02	2	1000045	1000065	# BR(Ah_8 -> Chi_8 Chi_10)
1.10376746E-05	2	1000055	1000055	# BR(Ah_8 -> Chi_9 Chi_9)
1.87340797E-05	2	1000055	1000065	# BR(Ah_8 -> Chi_9 Chi_10)
4.94697213E-07	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
1.77938031E-04	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
4.77785661E-01	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
1.76921988E-13	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
4.20296384E-08	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
3.30408172E-03	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
9.86013221E-04	2	25	23	# BR(Ah_8 -> hh_1 VZ)
1.59413860E-03	2	35	23	# BR(Ah_8 -> hh_2 VZ)
1.42509492E-02	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
8.77811139E-06	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
7.79805099E-15	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
3.49385424E-15	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
4.35102189E-16	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
3.69410681E-30	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3)
8.28764055E-05	2	-37	1000013	# BR(Ah_8 -> Hpm_2^* Hpm_5)
1.03135658E-30	2	-37	2000013	# BR(Ah_8 -> Hpm_2^* Hpm_6)
3.69410681E-30	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2)
6.44086831E-29	2	-1000011	1000013	# BR(Ah_8 -> Hpm_3^* Hpm_5)
2.69666074E-10	2	-1000011	2000013	# BR(Ah_8 -> Hpm_3^* Hpm_6)
5.69443148E-15	2	-2000011	1000015	# BR(Ah_8 -> Hpm_4^* Hpm_7)
8.28764055E-05	2	-1000013	37	# BR(Ah_8 -> Hpm_5^* Hpm_2)
6.44086831E-29	2	-1000013	1000011	# BR(Ah_8 -> Hpm_5^* Hpm_3)
1.03135658E-30	2	-2000013	37	# BR(Ah_8 -> Hpm_6^* Hpm_2)
2.69666074E-10	2	-2000013	1000011	# BR(Ah_8 -> Hpm_6^* Hpm_3)
5.69443148E-15	2	-1000015	2000011	# BR(Ah_8 -> Hpm_7^* Hpm_4)
2.19271585E-16	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)
2.19271585E-16	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)
2.58992966E-15	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)
2.58992966E-15	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)
2.66941351E-15	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)
2.66941351E-15	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)
3.23552597E-16	2	1000013	24	# BR(Ah_8 -> Hpm_5 Vwm^*)
3.23552597E-16	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* Vwm)
1.37459584E-19	2	2000013	24	# BR(Ah_8 -> Hpm_6 Vwm^*)
1.37459584E-19	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* Vwm)
6.75392570E-25	2	1000015	24	# BR(Ah_8 -> Hpm_7 Vwm^*)
6.75392570E-25	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* Vwm)
5.73339984E-04	2	-1000001	2000005	# BR(Ah_8 -> Sd_1^* Sd_6)
1.38074405E-10	2	-1000003	2000003	# BR(Ah_8 -> Sd_2^* Sd_5)
3.83869671E-13	2	-1000005	2000001	# BR(Ah_8 -> Sd_3^* Sd_4)
3.83869671E-13	2	-2000001	1000005	# BR(Ah_8 -> Sd_4^* Sd_3)
1.38074405E-10	2	-2000003	1000003	# BR(Ah_8 -> Sd_5^* Sd_2)
5.73339984E-04	2	-2000005	1000001	# BR(Ah_8 -> Sd_6^* Sd_1)
8.40412582E-20	2	-1000002	1000004	# BR(Ah_8 -> Su_1^* Su_2)
6.25820200E-14	2	-1000002	1000006	# BR(Ah_8 -> Su_1^* Su_3)
1.01317638E-10	2	-1000002	2000002	# BR(Ah_8 -> Su_1^* Su_4)
2.13636216E-13	2	-1000002	2000004	# BR(Ah_8 -> Su_1^* Su_5)
9.22717471E-14	2	-1000002	2000006	# BR(Ah_8 -> Su_1^* Su_6)
8.40412582E-20	2	-1000004	1000002	# BR(Ah_8 -> Su_2^* Su_1)
4.25568491E-16	2	-1000004	1000006	# BR(Ah_8 -> Su_2^* Su_3)
1.48418655E-08	2	-1000004	2000002	# BR(Ah_8 -> Su_2^* Su_4)
5.82557350E-07	2	-1000004	2000004	# BR(Ah_8 -> Su_2^* Su_5)
2.50930485E-07	2	-1000004	2000006	# BR(Ah_8 -> Su_2^* Su_6)
6.25820200E-14	2	-1000006	1000002	# BR(Ah_8 -> Su_3^* Su_1)
4.25568491E-16	2	-1000006	1000004	# BR(Ah_8 -> Su_3^* Su_2)
7.76993679E-20	2	-1000006	2000004	# BR(Ah_8 -> Su_3^* Su_5)
1.73666954E-19	2	-1000006	2000006	# BR(Ah_8 -> Su_3^* Su_6)
1.01317638E-10	2	-2000002	1000002	# BR(Ah_8 -> Su_4^* Su_1)
1.48418655E-08	2	-2000002	1000004	# BR(Ah_8 -> Su_4^* Su_2)
2.67015759E-12	2	-2000002	2000004	# BR(Ah_8 -> Su_4^* Su_5)
5.96804039E-12	2	-2000002	2000006	# BR(Ah_8 -> Su_4^* Su_6)

2.13636216E-13	2	-2000004	1000002	# BR(Ah_8 -> Su_5^* Su_1)
5.82557350E-07	2	-2000004	1000004	# BR(Ah_8 -> Su_5^* Su_2)
7.76993679E-20	2	-2000004	1000006	# BR(Ah_8 -> Su_5^* Su_3)
2.67015759E-12	2	-2000004	2000002	# BR(Ah_8 -> Su_5^* Su_4)
9.22717471E-14	2	-2000006	1000002	# BR(Ah_8 -> Su_6^* Su_1)
2.50930485E-07	2	-2000006	1000004	# BR(Ah_8 -> Su_6^* Su_2)
1.73666954E-19	2	-2000006	1000006	# BR(Ah_8 -> Su_6^* Su_3)
5.96804039E-12	2	-2000006	2000002	# BR(Ah_8 -> Su_6^* Su_4)

DECAY 37 1.91598589E-01 # Hpm_2

#	BR	NDA	ID1	ID2	
6.66296857E-13	2		36	-24	# BR(Hpm_2 -> Ah_2 Vwm)
1.04175965E-11	2		1000017	-24	# BR(Hpm_2 -> Ah_3 Vwm)
5.62161532E-12	2		1000018	-24	# BR(Hpm_2 -> Ah_4 Vwm)
4.75929561E-15	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
3.28339244E-14	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
1.06089982E-12	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
1.13161383E-04	2		12	-1000024	# BR(Hpm_2 -> Chi_1 Cha_4)
1.20619894E-14	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
8.32094563E-14	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
3.04577938E-13	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
2.86796972E-04	2		14	-1000024	# BR(Hpm_2 -> Chi_2 Cha_4)
2.19711495E-15	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
1.51971483E-14	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
3.42613587E-12	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
5.22406303E-05	2		16	-1000024	# BR(Hpm_2 -> Chi_3 Cha_4)
6.23192650E-26	2		1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)
2.58796888E-24	2		1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)
2.77034496E-02	2		1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)
1.86633131E-12	2		1000022	-1000024	# BR(Hpm_2 -> Chi_4 Cha_4)
2.97084341E-24	2		1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)
6.02253882E-24	2		1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)
8.25467155E-04	2		1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)
5.10351550E-14	2		1000023	-1000024	# BR(Hpm_2 -> Chi_5 Cha_4)
3.73667499E-25	2		1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1)
5.92820157E-24	2		1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2)
6.36227286E-04	2		1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3)
7.10896466E-14	2		1000025	-1000024	# BR(Hpm_2 -> Chi_6 Cha_4)
9.41027008E-25	2		1000039	11	# BR(Hpm_2 -> Chi_7 Cha_1)
1.84089575E-23	2		1000039	13	# BR(Hpm_2 -> Chi_7 Cha_2)
4.92574943E-01	2		1000039	15	# BR(Hpm_2 -> Chi_7 Cha_3)
4.48068448E-25	2		1000045	11	# BR(Hpm_2 -> Chi_8 Cha_1)
1.57200181E-23	2		1000045	13	# BR(Hpm_2 -> Chi_8 Cha_2)
4.77807714E-01	2		1000045	15	# BR(Hpm_2 -> Chi_8 Cha_3)
8.46786618E-20	2		-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)
1.37208009E-18	2		-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)
8.50067371E-19	2		-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)
1.70399268E-16	2		-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)
3.20648972E-15	2		-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)
1.28607185E-16	2		-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)
2.06178326E-15	2		-6	1	# BR(Hpm_2 -> Fu_3^* Fd_1)
9.75063186E-14	2		-6	3	# BR(Hpm_2 -> Fu_3^* Fd_2)
5.81549567E-11	2		-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)
3.48976663E-13	2		25	-24	# BR(Hpm_2 -> hh_1 Vwm)
4.25796020E-12	2		35	-24	# BR(Hpm_2 -> hh_2 Vwm)
1.05694604E-11	2		1000012	-24	# BR(Hpm_2 -> hh_3 Vwm)
7.90708932E-12	2		1000014	-24	# BR(Hpm_2 -> hh_4 Vwm)
1.08801843E-16	2		-24	23	# BR(Hpm_2 -> Vwm VZ)

DECAY 1000011 3.01157395E-03 # Hpm_3

#	BR	NDA	ID1	ID2	
8.80186992E-21	2		37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)
1.91417462E-20	2		37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3)
5.67123546E-21	2		37	1000018	# BR(Hpm_3 -> Hpm_2 Ah_4)
3.03965977E-11	2		37	1000019	# BR(Hpm_3 -> Hpm_2 Ah_5)
2.39044304E-09	2		36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
2.32910081E-09	2		1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm)
2.34920030E-09	2		1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm)
2.47085531E-14	2		1000019	-24	# BR(Hpm_3 -> Ah_5 Vwm)
1.49660766E-13	2		12	11	# BR(Hpm_3 -> Chi_1 Cha_1)
1.75029468E-12	2		12	13	# BR(Hpm_3 -> Chi_1 Cha_2)
2.10219476E-12	2		12	15	# BR(Hpm_3 -> Chi_1 Cha_3)
3.31576292E-03	2		12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)
1.30712726E-13	2		14	11	# BR(Hpm_3 -> Chi_2 Cha_1)
3.47429438E-12	2		14	13	# BR(Hpm_3 -> Chi_2 Cha_2)

2.20585399E-12	2	14	15	# BR(Hpm_3 -> Chi_2 Cha_3)
2.89596589E-03	2	14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)
2.00644337E-12	2	16	11	# BR(Hpm_3 -> Chi_3 Cha_1)
8.23639982E-12	2	16	13	# BR(Hpm_3 -> Chi_3 Cha_2)
2.53012236E-11	2	16	15	# BR(Hpm_3 -> Chi_3 Cha_3)
4.44531508E-02	2	16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)
3.96163248E-24	2	1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1)
3.19556433E-02	2	1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2)
1.25684444E-22	2	1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3)
3.42635653E-10	2	1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4)
1.91515989E-22	2	1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1)
8.92676843E-04	2	1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2)
2.35896404E-22	2	1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3)
2.18577816E-10	2	1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4)
4.13148869E-23	2	1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1)
6.74598778E-04	2	1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2)
1.01933095E-22	2	1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3)
9.71455903E-11	2	1000025	-1000024	# BR(Hpm_3 -> Chi_6 Cha_4)
9.29449659E-23	2	1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1)
4.53318231E-01	2	1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2)
5.79272125E-22	2	1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3)
5.68096990E-11	2	1000039	-1000024	# BR(Hpm_3 -> Chi_7 Cha_4)
5.70607206E-23	2	1000045	11	# BR(Hpm_3 -> Chi_8 Cha_1)
4.62493942E-01	2	1000045	13	# BR(Hpm_3 -> Chi_8 Cha_2)
1.05745014E-21	2	1000045	15	# BR(Hpm_3 -> Chi_8 Cha_3)
1.51344919E-11	2	1000045	-1000024	# BR(Hpm_3 -> Chi_8 Cha_4)
5.64872296E-18	2	-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1)
9.06898131E-17	2	-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2)
5.62116173E-17	2	-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3)
1.19225713E-14	2	-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1)
2.24254241E-13	2	-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2)
8.52619790E-15	2	-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3)
4.97838378E-13	2	-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1)
2.35439002E-11	2	-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2)
1.40568820E-08	2	-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3)
4.50228800E-21	2	37	25	# BR(Hpm_3 -> Hpm_2 hh_1)
1.31870560E-20	2	37	35	# BR(Hpm_3 -> Hpm_2 hh_2)
1.28182981E-20	2	37	1000012	# BR(Hpm_3 -> Hpm_2 hh_3)
6.38041033E-21	2	37	1000014	# BR(Hpm_3 -> Hpm_2 hh_4)
3.03965981E-11	2	37	1000016	# BR(Hpm_3 -> Hpm_2 hh_5)
8.21984988E-10	2	25	-24	# BR(Hpm_3 -> hh_1 Vwm)
4.35561285E-09	2	35	-24	# BR(Hpm_3 -> hh_2 Vwm)
1.28354514E-09	2	1000012	-24	# BR(Hpm_3 -> hh_3 Vwm)
3.82207953E-10	2	1000014	-24	# BR(Hpm_3 -> hh_4 Vwm)
2.46767095E-14	2	1000016	-24	# BR(Hpm_3 -> hh_5 Vwm)
1.43172094E-28	2	37	23	# BR(Hpm_3 -> Hpm_2 VZ)
2.93864887E-13	2	-24	23	# BR(Hpm_3 -> Vwm VZ)
DECAY 2000011	1.38967731E-03	# Hpm_4		
# BR	NDA	ID1	ID2	
3.03490760E-20	2	37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
4.30373393E-21	2	37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
1.21416874E-20	2	37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
1.60347951E-11	2	37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
3.73057349E-29	2	37	2000018	# BR(Hpm_4 -> Hpm_2 Ah_6)
1.82481186E-20	2	1000011	36	# BR(Hpm_4 -> Hpm_3 Ah_2)
9.65584652E-25	2	1000011	1000017	# BR(Hpm_4 -> Hpm_3 Ah_3)
2.01408172E-21	2	1000011	1000018	# BR(Hpm_4 -> Hpm_3 Ah_4)
3.87504659E-29	2	1000011	1000019	# BR(Hpm_4 -> Hpm_3 Ah_5)
5.79267705E-09	2	36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
4.64637854E-10	2	1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm)
3.03855533E-09	2	1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm)
1.11885025E-22	2	1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm)
4.50128101E-23	2	2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm)
6.22537568E-12	2	12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
3.84282528E-11	2	12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
6.89129376E-11	2	12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
1.31043474E-01	2	12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
9.18019130E-15	2	14	11	# BR(Hpm_4 -> Chi_2 Cha_1)
1.73306451E-11	2	14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
3.13000468E-11	2	14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
5.90987738E-02	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
5.93802321E-12	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
3.98789062E-13	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2)

7.60766851E-13	2		16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
1.35551264E-03	2		16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)
6.63564257E-02	2	1000022		11	# BR(Hpm_4 -> Chi_4 Cha_1)
3.45022143E-23	2	1000022		13	# BR(Hpm_4 -> Chi_4 Cha_2)
2.32041268E-22	2	1000022		15	# BR(Hpm_4 -> Chi_4 Cha_3)
3.15593068E-10	2	1000022		-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)
1.75405113E-03	2	1000023		11	# BR(Hpm_4 -> Chi_5 Cha_1)
1.84919241E-22	2	1000023		13	# BR(Hpm_4 -> Chi_5 Cha_2)
1.86703497E-22	2	1000023		15	# BR(Hpm_4 -> Chi_5 Cha_3)
1.95268229E-10	2	1000023		-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)
1.30081593E-03	2	1000025		11	# BR(Hpm_4 -> Chi_6 Cha_1)
2.12074192E-22	2	1000025		13	# BR(Hpm_4 -> Chi_6 Cha_2)
1.86207401E-23	2	1000025		15	# BR(Hpm_4 -> Chi_6 Cha_3)
1.64261809E-11	2	1000025		-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)
3.44596320E-01	2	1000039		11	# BR(Hpm_4 -> Chi_7 Cha_1)
2.10483018E-22	2	1000039		13	# BR(Hpm_4 -> Chi_7 Cha_2)
4.26675797E-22	2	1000039		15	# BR(Hpm_4 -> Chi_7 Cha_3)
3.87490954E-11	2	1000039		-1000024	# BR(Hpm_4 -> Chi_7 Cha_4)
3.94494600E-01	2	1000045		11	# BR(Hpm_4 -> Chi_8 Cha_1)
5.13469592E-22	2	1000045		13	# BR(Hpm_4 -> Chi_8 Cha_2)
9.68712575E-22	2	1000045		15	# BR(Hpm_4 -> Chi_8 Cha_3)
1.23158965E-11	2	1000045		-1000024	# BR(Hpm_4 -> Chi_8 Cha_4)
2.70808076E-18	2		-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)
4.32622517E-17	2		-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)
2.68169923E-17	2		-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)
5.85874677E-15	2		-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)
1.10174206E-13	2		-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)
4.07332153E-15	2		-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)
2.90973626E-13	2		-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)
1.37607993E-11	2		-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)
8.21569679E-09	2		-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)
3.64590203E-20	2		37	25	# BR(Hpm_4 -> Hpm_2 hh_1)
1.42045286E-21	2		37	35	# BR(Hpm_4 -> Hpm_2 hh_2)
6.83431863E-21	2		37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)
1.65373522E-21	2		37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4)
1.60347951E-11	2		37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5)
3.76640437E-29	2		37	2000012	# BR(Hpm_4 -> Hpm_2 hh_6)
1.01771363E-20	2	1000011		25	# BR(Hpm_4 -> Hpm_3 hh_1)
5.16433738E-21	2	1000011		35	# BR(Hpm_4 -> Hpm_3 hh_2)
3.86283685E-21	2	1000011	1000012		# BR(Hpm_4 -> Hpm_3 hh_3)
4.27685002E-22	2	1000011	1000014		# BR(Hpm_4 -> Hpm_3 hh_4)
3.80063619E-29	2	1000011	1000016		# BR(Hpm_4 -> Hpm_3 hh_5)
7.58091587E-09	2		25	-24	# BR(Hpm_4 -> hh_1 Vwm)
4.85907867E-10	2		35	-24	# BR(Hpm_4 -> hh_2 Vwm)
8.34026318E-10	2	1000012		-24	# BR(Hpm_4 -> hh_3 Vwm)
5.40226327E-11	2	1000014		-24	# BR(Hpm_4 -> hh_4 Vwm)
1.07789913E-21	2	1000016		-24	# BR(Hpm_4 -> hh_5 Vwm)
1.69832848E-22	2	2000012		-24	# BR(Hpm_4 -> hh_6 Vwm)
1.00745735E-27	2		37	23	# BR(Hpm_4 -> Hpm_2 VZ)
1.29341857E-29	2	1000011		23	# BR(Hpm_4 -> Hpm_3 VZ)
5.17496280E-13	2		-24	23	# BR(Hpm_4 -> Vwm VZ)
DECAY #	1000013	3.25139928E+00	#	Hpm_5	
BR	NDA	ID1	ID2		
4.85170362E-09	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)	
5.39807414E-09	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)	
1.97732702E-04	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)	
5.84780066E-17	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)	
6.34001751E-15	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)	
2.94877568E-29	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2)	
6.85036994E-27	2	1000011	1000017	# BR(Hpm_5 -> Hpm_3 Ah_3)	
1.04987926E-26	2	1000011	1000018	# BR(Hpm_5 -> Hpm_3 Ah_4)	
5.73289278E-15	2	1000011	1000019	# BR(Hpm_5 -> Hpm_3 Ah_5)	
7.79212047E-19	2	1000011	2000018	# BR(Hpm_5 -> Hpm_3 Ah_6)	
2.56037743E-28	2	2000011	36	# BR(Hpm_5 -> Hpm_4 Ah_2)	
4.89537987E-28	2	2000011	1000017	# BR(Hpm_5 -> Hpm_4 Ah_3)	
3.99160343E-28	2	2000011	1000018	# BR(Hpm_5 -> Hpm_4 Ah_4)	
1.40419160E-16	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm)	
2.19536205E-15	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm)	
1.18323523E-15	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm)	
2.64074793E-03	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm)	
6.84393483E-21	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm)	
2.17245143E-27	2	2000019	-24	# BR(Hpm_5 -> Ah_7 Vwm)	
5.24754299E-14	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1)	

2.17887765E-13	2		12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
4.04177171E-13	2		12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
1.14011277E-01	2		12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
1.32994084E-13	2		14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
5.52216222E-13	2		14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
1.12941455E-14	2		14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
2.88950949E-01	2		14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
2.42251328E-14	2		16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
1.00587273E-13	2		16	13	# BR(Hpm_5 -> Chi_3 Cha_2)
7.09255620E-13	2		16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
5.26329814E-02	2		16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
1.28839101E-23	2	1000022		11	# BR(Hpm_5 -> Chi_4 Cha_1)
5.39233036E-23	2	1000022		13	# BR(Hpm_5 -> Chi_4 Cha_2)
7.80572536E-03	2	1000022		15	# BR(Hpm_5 -> Chi_4 Cha_3)
3.32255705E-15	2	1000022	-1000024		# BR(Hpm_5 -> Chi_4 Cha_4)
3.67093162E-25	2	1000023		11	# BR(Hpm_5 -> Chi_5 Cha_1)
1.58087654E-24	2	1000023		13	# BR(Hpm_5 -> Chi_5 Cha_2)
2.34532346E-04	2	1000023		15	# BR(Hpm_5 -> Chi_5 Cha_3)
9.86673886E-17	2	1000023	-1000024		# BR(Hpm_5 -> Chi_5 Cha_4)
2.39234716E-25	2	1000025		11	# BR(Hpm_5 -> Chi_6 Cha_1)
9.96019913E-25	2	1000025		13	# BR(Hpm_5 -> Chi_6 Cha_2)
1.81354182E-04	2	1000025		15	# BR(Hpm_5 -> Chi_6 Cha_3)
5.96733900E-15	2	1000025	-1000024		# BR(Hpm_5 -> Chi_6 Cha_4)
3.77108489E-22	2	1000039		11	# BR(Hpm_5 -> Chi_7 Cha_1)
1.57921665E-21	2	1000039		13	# BR(Hpm_5 -> Chi_7 Cha_2)
2.25576482E-01	2	1000039		15	# BR(Hpm_5 -> Chi_7 Cha_3)
1.80208625E-15	2	1000039	-1000024		# BR(Hpm_5 -> Chi_7 Cha_4)
3.76072369E-22	2	1000045		11	# BR(Hpm_5 -> Chi_8 Cha_1)
1.57482470E-21	2	1000045		13	# BR(Hpm_5 -> Chi_8 Cha_2)
2.24630293E-01	2	1000045		15	# BR(Hpm_5 -> Chi_8 Cha_3)
1.80019437E-15	2	1000045	-1000024		# BR(Hpm_5 -> Chi_8 Cha_4)
7.54880045E-29	2	1000055		11	# BR(Hpm_5 -> Chi_9 Cha_1)
2.43167827E-24	2	1000055		13	# BR(Hpm_5 -> Chi_9 Cha_2)
7.50372085E-02	2	1000055		15	# BR(Hpm_5 -> Chi_9 Cha_3)
1.09865770E-23	2	-2		1	# BR(Hpm_5 -> Fu_1^* Fd_1)
2.09458025E-22	2	-2		3	# BR(Hpm_5 -> Fu_1^* Fd_2)
1.29910506E-22	2	-2		5	# BR(Hpm_5 -> Fu_1^* Fd_3)
1.29782274E-21	2	-4		1	# BR(Hpm_5 -> Fu_2^* Fd_1)
2.81247593E-20	2	-4		3	# BR(Hpm_5 -> Fu_2^* Fd_2)
1.88274581E-20	2	-4		5	# BR(Hpm_5 -> Fu_2^* Fd_3)
6.70865236E-20	2	-6		1	# BR(Hpm_5 -> Fu_3^* Fd_1)
3.17267949E-18	2	-6		3	# BR(Hpm_5 -> Fu_3^* Fd_2)
1.90445283E-15	2	-6		5	# BR(Hpm_5 -> Fu_3^* Fd_3)
1.03683837E-05	2	37		25	# BR(Hpm_5 -> Hpm_2 hh_1)
1.67528474E-05	2	37		35	# BR(Hpm_5 -> Hpm_2 hh_2)
1.49645116E-04	2	37	1000012		# BR(Hpm_5 -> Hpm_2 hh_3)
2.70034739E-03	2	37	1000014		# BR(Hpm_5 -> Hpm_2 hh_4)
8.42270989E-15	2	37	1000016		# BR(Hpm_5 -> Hpm_2 hh_5)
7.83574840E-15	2	37	2000012		# BR(Hpm_5 -> Hpm_2 hh_6)
4.14643202E-29	2	1000011		25	# BR(Hpm_5 -> Hpm_3 hh_1)
1.63288534E-28	2	1000011		35	# BR(Hpm_5 -> Hpm_3 hh_2)
1.91431047E-26	2	1000011	1000012		# BR(Hpm_5 -> Hpm_3 hh_3)
1.37812798E-25	2	1000011	1000014		# BR(Hpm_5 -> Hpm_3 hh_4)
5.73289278E-15	2	1000011	1000016		# BR(Hpm_5 -> Hpm_3 hh_5)
7.79211661E-19	2	1000011	2000012		# BR(Hpm_5 -> Hpm_3 hh_6)
1.55140563E-28	2	2000011		25	# BR(Hpm_5 -> Hpm_4 hh_1)
2.79534377E-29	2	2000011		35	# BR(Hpm_5 -> Hpm_4 hh_2)
1.33299334E-27	2	2000011	1000012		# BR(Hpm_5 -> Hpm_4 hh_3)
7.02438522E-27	2	2000011	1000014		# BR(Hpm_5 -> Hpm_4 hh_4)
8.00649506E-17	2	25		-24	# BR(Hpm_5 -> hh_1 Vwm)
9.81825351E-16	2	35		-24	# BR(Hpm_5 -> hh_2 Vwm)
2.45622276E-15	2	1000012		-24	# BR(Hpm_5 -> hh_3 Vwm)
8.27802623E-15	2	1000014		-24	# BR(Hpm_5 -> hh_4 Vwm)
2.64074793E-03	2	1000016		-24	# BR(Hpm_5 -> hh_5 Vwm)
6.83718823E-21	2	2000012		-24	# BR(Hpm_5 -> hh_6 Vwm)
2.30824155E-27	2	2000014		-24	# BR(Hpm_5 -> hh_7 Vwm)
2.58284425E-03	2	37		23	# BR(Hpm_5 -> Hpm_2 VZ)
5.00143563E-26	2	1000011		23	# BR(Hpm_5 -> Hpm_3 VZ)
2.00848587E-27	2	2000011		23	# BR(Hpm_5 -> Hpm_4 VZ)
1.97909612E-19	2	-24		23	# BR(Hpm_5 -> Vwm VZ)
DECAY	2000013	2.73013128E-01	# Hpm_6		
#	BR	NDA	ID1	ID2	
2.19379747E-28	2		37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)

2.59472619E-28	2	37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
1.48463223E-28	2	37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
6.39722807E-20	2	37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
4.78110771E-16	2	37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
1.78442784E-10	2	1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2)
1.98515050E-10	2	1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3)
7.24463626E-06	2	1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4)
5.31062925E-16	2	1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5)
5.46370896E-19	2	1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6)
2.38035781E-29	2	2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2)
4.32913646E-30	2	2000011	1000017	# BR(Hpm_6 -> Hpm_4 Ah_3)
1.81697811E-29	2	2000011	1000018	# BR(Hpm_6 -> Hpm_4 Ah_4)
4.43742844E-17	2	36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
4.32342900E-17	2	1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm)
4.35033819E-17	2	1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm)
8.81491089E-22	2	1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm)
9.61288105E-05	2	2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm)
1.05971672E-28	2	2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm)
5.66297644E-16	2	12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
4.84887652E-15	2	12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
1.20543235E-16	2	12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
1.23099514E-03	2	12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
4.94600701E-16	2	14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
1.43659272E-13	2	14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
1.05290098E-16	2	14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
1.07514320E-03	2	14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
7.59213345E-15	2	16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
2.35057085E-13	2	16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
1.61601092E-15	2	16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
1.65034757E-02	2	16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
6.66651795E-25	2	1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1)
4.65831055E-03	2	1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2)
2.25989262E-24	2	1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3)
1.46116584E-16	2	1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
1.02428303E-26	2	1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1)
1.25112049E-04	2	1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2)
8.56327672E-26	2	1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3)
1.09394853E-14	2	1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
2.80419527E-26	2	1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1)
9.32916858E-05	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)
4.06580759E-26	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)
8.35227167E-15	2	1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)
1.08136713E-23	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)
3.42010144E-02	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)
6.46784539E-23	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)
4.63605670E-17	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)
9.90093195E-24	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)
2.36377236E-02	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)
6.42139912E-23	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)
2.66438084E-17	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)
7.73801458E-23	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1)
9.18077708E-01	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)
3.01466908E-23	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)
1.10903779E-25	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)
2.06295726E-24	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)
1.27940224E-24	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)
4.71351763E-23	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)
9.18290242E-22	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)
1.86567230E-22	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)
2.43781932E-21	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)
1.15290033E-19	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)
6.89218108E-17	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)
9.15967769E-29	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1)
3.67282542E-28	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2)
1.15220932E-28	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)
6.39723364E-20	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5)
4.78110771E-16	2	37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6)
3.80735820E-07	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1)
6.15134870E-07	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2)
5.49407215E-06	2	1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3)
9.81091004E-05	2	1000011	1000014	# BR(Hpm_6 -> Hpm_3 hh_4)
1.54211458E-15	2	1000011	1000016	# BR(Hpm_6 -> Hpm_3 hh_5)
2.74606140E-18	2	1000011	2000012	# BR(Hpm_6 -> Hpm_3 hh_6)

2.58275764E-30	2	2000011	25	# BR(Hpm_6 -> Hpm_4 hh_1)
2.71715823E-29	2	2000011	35	# BR(Hpm_6 -> Hpm_4 hh_2)
3.07288795E-29	2	2000011	1000012	# BR(Hpm_6 -> Hpm_4 hh_3)
1.46815721E-28	2	2000011	1000014	# BR(Hpm_6 -> Hpm_4 hh_4)
1.54487234E-17	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm)
8.17959988E-17	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm)
2.40729172E-17	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm)
8.13695473E-18	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm)
8.80358951E-22	2	1000016	-24	# BR(Hpm_6 -> hh_5 Vwm)
9.61288105E-05	2	2000012	-24	# BR(Hpm_6 -> hh_6 Vwm)
1.14480849E-28	2	2000014	-24	# BR(Hpm_6 -> hh_7 Vwm)
2.82327051E-30	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)
9.31236464E-05	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ)
9.91557534E-29	2	2000011	23	# BR(Hpm_6 -> Hpm_4 VZ)
7.37213901E-21	2	-24	23	# BR(Hpm_6 -> Vwm VZ)
DECAY 1000015	2.62671027E-01	# Hpm_7		
# BR	NDA	ID1	ID2	
8.73642378E-25	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
6.70970592E-28	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4)
3.40158091E-25	2	1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6)
2.12470778E-15	2	2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2)
2.36369334E-15	2	2000011	1000017	# BR(Hpm_7 -> Hpm_4 Ah_3)
8.61877047E-11	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4)
9.31623105E-22	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
7.47246447E-23	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
4.87435186E-22	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
8.88861604E-27	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
9.59941697E-10	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm)
1.39912449E-15	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
5.70598151E-19	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
2.89097575E-20	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
2.99422014E-07	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
1.42168750E-13	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
2.57331785E-19	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
1.30379877E-20	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
1.35035140E-07	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
2.44362284E-13	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
5.90226323E-21	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
2.99062088E-22	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
3.09721876E-09	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
4.52276832E-03	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
4.08723239E-25	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
1.26084239E-29	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3)
2.82565582E-21	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
1.20400503E-04	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
1.10060528E-26	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
1.00909213E-19	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
8.94999025E-05	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
8.19536817E-27	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
1.11067321E-20	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
2.59615859E-02	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
3.01593009E-24	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
3.57341804E-28	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3)
2.00700690E-22	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
1.49778769E-02	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
2.09054066E-24	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
3.55153594E-28	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3)
9.84565087E-23	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
9.54327427E-01	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
8.04356585E-23	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
1.55927779E-28	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3)
1.78664563E-29	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
1.10800069E-29	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
5.57401373E-28	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
1.07378354E-26	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
1.62071407E-27	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
2.88296207E-26	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
1.36341827E-24	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
8.14730430E-22	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
8.73642377E-25	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5)
3.57695780E-29	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
5.72327168E-29	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2)
5.08911077E-28	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)

9.07017186E-27	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)	
3.40158064E-25	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6)	
4.49578151E-12	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1)	
7.25590802E-12	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2)	
6.46969667E-11	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3)	
1.01406546E-09	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4)	
1.22121135E-21	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)	
7.81589170E-23	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)	
1.33835116E-22	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)	
8.78125846E-24	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)	
8.88649820E-27	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)	
9.59941697E-10	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm)	
8.60973267E-27	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)	
8.72321960E-10	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ)	
8.81918955E-26	2	-24	23	# BR(Hpm_7 -> Vwm VZ)	
DECAY	2000015	5.55432986E+01	# Hpm_8		
#	BR	NDA	ID1	ID2	
3.66964340E-18	2		37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
9.44090119E-18	2		37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
8.93555292E-14	2		37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
2.44308212E-07	2		37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
9.07333013E-25	2		37	2000018	# BR(Hpm_8 -> Hpm_2 Ah_6)
2.17673599E-27	2		37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7)
4.11260207E-20	2	1000011		36	# BR(Hpm_8 -> Hpm_3 Ah_2)
4.19057157E-18	2	1000011	1000017		# BR(Hpm_8 -> Hpm_3 Ah_3)
4.56122575E-14	2	1000011	1000018		# BR(Hpm_8 -> Hpm_3 Ah_4)
2.51533542E-24	2	1000011	1000019		# BR(Hpm_8 -> Hpm_3 Ah_5)
4.24401821E-07	2	1000011	2000018		# BR(Hpm_8 -> Hpm_3 Ah_6)
1.09508377E-27	2	1000011	2000019		# BR(Hpm_8 -> Hpm_3 Ah_7)
5.54978356E-18	2	2000011	36		# BR(Hpm_8 -> Hpm_4 Ah_2)
1.28827253E-19	2	2000011	1000017		# BR(Hpm_8 -> Hpm_4 Ah_3)
5.66733460E-15	2	2000011	1000018		# BR(Hpm_8 -> Hpm_4 Ah_4)
2.22765319E-27	2	2000011	1000019		# BR(Hpm_8 -> Hpm_4 Ah_5)
1.13896311E-27	2	2000011	2000018		# BR(Hpm_8 -> Hpm_4 Ah_6)
3.86452157E-07	2	2000011	2000019		# BR(Hpm_8 -> Hpm_4 Ah_7)
4.47519418E-18	2	1000013	36		# BR(Hpm_8 -> Hpm_5 Ah_2)
6.96149290E-17	2	1000013	1000017		# BR(Hpm_8 -> Hpm_5 Ah_3)
2.24192715E-17	2	1000013	1000018		# BR(Hpm_8 -> Hpm_5 Ah_4)
8.71102921E-05	2	1000013	1000019		# BR(Hpm_8 -> Hpm_5 Ah_5)
4.15154795E-22	2	1000013	2000018		# BR(Hpm_8 -> Hpm_5 Ah_6)
2.39710296E-20	2	2000013	36		# BR(Hpm_8 -> Hpm_6 Ah_2)
2.31047751E-20	2	2000013	1000017		# BR(Hpm_8 -> Hpm_6 Ah_3)
5.72042906E-21	2	2000013	1000018		# BR(Hpm_8 -> Hpm_6 Ah_4)
1.22110694E-27	2	2000013	1000019		# BR(Hpm_8 -> Hpm_6 Ah_5)
2.56889316E-10	2	2000013	2000018		# BR(Hpm_8 -> Hpm_6 Ah_6)
2.49519340E-25	2	1000015	36		# BR(Hpm_8 -> Hpm_7 Ah_2)
1.97095892E-26	2	1000015	1000017		# BR(Hpm_8 -> Hpm_7 Ah_3)
8.61099851E-27	2	1000015	1000018		# BR(Hpm_8 -> Hpm_7 Ah_4)
5.58116763E-15	2	1000015	2000019		# BR(Hpm_8 -> Hpm_7 Ah_7)
4.41460542E-07	2	36	-24		# BR(Hpm_8 -> Ah_2 Vwm)
4.89645051E-07	2	1000017	-24		# BR(Hpm_8 -> Ah_3 Vwm)
1.64954582E-02	2	1000018	-24		# BR(Hpm_8 -> Ah_4 Vwm)
8.77339783E-15	2	1000019	-24		# BR(Hpm_8 -> Ah_5 Vwm)
1.18030436E-14	2	2000018	-24		# BR(Hpm_8 -> Ah_6 Vwm)
5.24482535E-15	2	2000019	-24		# BR(Hpm_8 -> Ah_7 Vwm)
4.49350789E-09	2	12	11		# BR(Hpm_8 -> Chi_1 Cha_1)
1.91976357E-05	2	12	13		# BR(Hpm_8 -> Chi_1 Cha_2)
2.12147307E-02	2	12	15		# BR(Hpm_8 -> Chi_1 Cha_3)
1.84901012E-14	2	12	-1000024		# BR(Hpm_8 -> Chi_1 Cha_4)
1.29135431E-13	2	12	-1000037		# BR(Hpm_8 -> Chi_1 Cha_5)
2.02650921E-09	2	14	11		# BR(Hpm_8 -> Chi_2 Cha_1)
1.67670909E-05	2	14	13		# BR(Hpm_8 -> Chi_2 Cha_2)
5.37667566E-02	2	14	15		# BR(Hpm_8 -> Chi_2 Cha_3)
5.07115722E-14	2	14	-1000024		# BR(Hpm_8 -> Chi_2 Cha_4)
1.59069277E-14	2	14	-1000037		# BR(Hpm_8 -> Chi_2 Cha_5)
4.64808094E-11	2	16	11		# BR(Hpm_8 -> Chi_3 Cha_1)
2.57375276E-04	2	16	13		# BR(Hpm_8 -> Chi_3 Cha_2)
9.79372004E-03	2	16	15		# BR(Hpm_8 -> Chi_3 Cha_3)
1.15951954E-14	2	16	-1000024		# BR(Hpm_8 -> Chi_3 Cha_4)
3.75982434E-13	2	16	-1000037		# BR(Hpm_8 -> Chi_3 Cha_5)
7.78704392E-18	2	1000022	11		# BR(Hpm_8 -> Chi_4 Cha_1)
1.64757175E-16	2	1000022	13		# BR(Hpm_8 -> Chi_4 Cha_2)
4.16890086E-14	2	1000022	15		# BR(Hpm_8 -> Chi_4 Cha_3)

3.19681853E-02	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
3.46234087E-03	2	1000022	-1000037	# BR(Hpm_8 -> Chi_4 Cha_5)
3.19076645E-17	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
2.41959533E-16	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
5.97080715E-16	2	1000023	15	# BR(Hpm_8 -> Chi_5 Cha_3)
7.90273967E-04	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
1.04603655E-04	2	1000023	-1000037	# BR(Hpm_8 -> Chi_5 Cha_5)
2.98098733E-18	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
2.23154369E-16	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
9.34837279E-17	2	1000025	15	# BR(Hpm_8 -> Chi_6 Cha_3)
5.71961662E-04	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
8.10229159E-05	2	1000025	-1000037	# BR(Hpm_8 -> Chi_6 Cha_5)
2.51252239E-16	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
2.16726651E-15	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
4.74958271E-15	2	1000039	15	# BR(Hpm_8 -> Chi_7 Cha_3)
3.19570567E-03	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
1.06566194E-01	2	1000039	-1000037	# BR(Hpm_8 -> Chi_7 Cha_5)
5.75437998E-16	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
4.00486703E-15	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
1.07055936E-14	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)
5.95112588E-04	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
1.06306945E-01	2	1000045	-1000037	# BR(Hpm_8 -> Chi_8 Cha_5)
2.68173747E-14	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
1.11356755E-13	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
7.00430095E-15	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
6.01857699E-02	2	1000055	-1000024	# BR(Hpm_8 -> Chi_9 Cha_4)
2.15723807E-05	2	1000055	-1000037	# BR(Hpm_8 -> Chi_9 Cha_5)
4.81635399E-14	2	1000065	11	# BR(Hpm_8 -> Chi_10 Cha_1)
2.00196257E-13	2	1000065	13	# BR(Hpm_8 -> Chi_10 Cha_2)
1.05356718E-14	2	1000065	15	# BR(Hpm_8 -> Chi_10 Cha_3)
1.07768292E-01	2	1000065	-1000024	# BR(Hpm_8 -> Chi_10 Cha_4)
4.48806368E-07	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
8.63649802E-06	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
5.35685532E-06	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
2.60386046E-08	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
1.61187038E-04	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
7.74563674E-04	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
1.11305076E-07	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
5.54575825E-06	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
4.56184212E-01	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
5.58454326E-15	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
8.91609574E-15	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
8.21337206E-14	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3)
8.65581239E-17	2	37	1000014	# BR(Hpm_8 -> Hpm_2 hh_4)
2.44308211E-07	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5)
1.49121631E-24	2	37	2000012	# BR(Hpm_8 -> Hpm_2 hh_6)
2.47690533E-27	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
2.90648433E-15	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
4.36559755E-15	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2)
4.05856516E-14	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
4.43073229E-17	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
1.69670600E-24	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5)
4.24401821E-07	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6)
1.24988822E-27	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7)
5.01648525E-16	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
6.43722466E-16	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2)
5.55959629E-15	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
5.90878401E-18	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
3.09127839E-27	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
1.28157059E-27	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6)
3.86452157E-07	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7)
1.52687885E-18	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1)
2.62783487E-17	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2)
1.03940533E-16	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3)
1.47716947E-15	2	1000013	1000014	# BR(Hpm_8 -> Hpm_5 hh_4)
8.71102921E-05	2	1000013	1000016	# BR(Hpm_8 -> Hpm_5 hh_5)
4.14986963E-22	2	1000013	2000012	# BR(Hpm_8 -> Hpm_5 hh_6)
5.42624186E-21	2	2000013	25	# BR(Hpm_8 -> Hpm_6 hh_1)
5.95147172E-20	2	2000013	35	# BR(Hpm_8 -> Hpm_6 hh_2)
3.89242774E-20	2	2000013	1000012	# BR(Hpm_8 -> Hpm_6 hh_3)
3.33236611E-19	2	2000013	1000014	# BR(Hpm_8 -> Hpm_6 hh_4)
1.14520073E-27	2	2000013	1000016	# BR(Hpm_8 -> Hpm_6 hh_5)
2.56889316E-10	2	2000013	2000012	# BR(Hpm_8 -> Hpm_6 hh_6)

4.26985871E-25	2	1000015	25	# BR(Hpm_8 -> Hpm_7 hh_1)
5.54200948E-26	2	1000015	35	# BR(Hpm_8 -> Hpm_7 hh_2)
2.07315597E-25	2	1000015	1000012	# BR(Hpm_8 -> Hpm_7 hh_3)
1.81184893E-24	2	1000015	1000014	# BR(Hpm_8 -> Hpm_7 hh_4)
5.58116763E-15	2	1000015	2000014	# BR(Hpm_8 -> Hpm_7 hh_7)
1.03129965E-03	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
1.66735536E-03	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm)
1.49054751E-02	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
9.27580577E-06	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
1.11062582E-14	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
1.26735224E-14	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
5.50937078E-15	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
1.41554065E-20	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
3.54567104E-26	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
3.41643616E-16	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ)
1.58811160E-19	2	2000013	23	# BR(Hpm_8 -> Hpm_6 VZ)
1.05494381E-24	2	1000015	23	# BR(Hpm_8 -> Hpm_7 VZ)
1.06872719E-16	2	-1000002	1000001	# BR(Hpm_8 -> Su_1^* Sd_1)
6.49022356E-11	2	-1000002	1000003	# BR(Hpm_8 -> Su_1^* Sd_2)
8.53731897E-12	2	-1000002	1000005	# BR(Hpm_8 -> Su_1^* Sd_3)
2.00518760E-06	2	-1000002	2000001	# BR(Hpm_8 -> Su_1^* Sd_4)
4.27004062E-08	2	-1000002	2000003	# BR(Hpm_8 -> Su_1^* Sd_5)
1.44963713E-15	2	-1000002	2000005	# BR(Hpm_8 -> Su_1^* Sd_6)
3.15784968E-10	2	-1000004	1000001	# BR(Hpm_8 -> Su_2^* Sd_1)
3.02061882E-09	2	-1000004	1000003	# BR(Hpm_8 -> Su_2^* Sd_2)
1.80698128E-13	2	-1000004	1000005	# BR(Hpm_8 -> Su_2^* Sd_3)
4.25153129E-08	2	-1000004	2000001	# BR(Hpm_8 -> Su_2^* Sd_4)
1.99080802E-06	2	-1000004	2000003	# BR(Hpm_8 -> Su_2^* Sd_5)
3.82284167E-09	2	-1000004	2000005	# BR(Hpm_8 -> Su_2^* Sd_6)
4.60410621E-19	2	-1000006	1000001	# BR(Hpm_8 -> Su_3^* Sd_1)
2.50595211E-17	2	-1000006	1000003	# BR(Hpm_8 -> Su_3^* Sd_2)
1.31106915E-18	2	-1000006	1000005	# BR(Hpm_8 -> Su_3^* Sd_3)
1.28568035E-13	2	-1000006	2000001	# BR(Hpm_8 -> Su_3^* Sd_4)
6.85390526E-15	2	-1000006	2000003	# BR(Hpm_8 -> Su_3^* Sd_5)
7.02621634E-19	2	-1000006	2000005	# BR(Hpm_8 -> Su_3^* Sd_6)
1.58220111E-11	2	-2000002	1000001	# BR(Hpm_8 -> Su_4^* Sd_1)
1.11115850E-10	2	-2000002	1000003	# BR(Hpm_8 -> Su_4^* Sd_2)
1.66575843E-14	2	-2000002	1000005	# BR(Hpm_8 -> Su_4^* Sd_3)
1.63366213E-09	2	-2000002	2000001	# BR(Hpm_8 -> Su_4^* Sd_4)
3.03937572E-08	2	-2000002	2000003	# BR(Hpm_8 -> Su_4^* Sd_5)
2.41455662E-11	2	-2000002	2000005	# BR(Hpm_8 -> Su_4^* Sd_6)
1.80723633E-03	2	-2000004	1000001	# BR(Hpm_8 -> Su_5^* Sd_1)
4.69723033E-09	2	-2000004	1000003	# BR(Hpm_8 -> Su_5^* Sd_2)
2.77986973E-13	2	-2000004	1000005	# BR(Hpm_8 -> Su_5^* Sd_3)
2.74194502E-08	2	-2000004	2000001	# BR(Hpm_8 -> Su_5^* Sd_4)
1.29217791E-06	2	-2000004	2000003	# BR(Hpm_8 -> Su_5^* Sd_5)
7.41201103E-05	2	-2000006	1000001	# BR(Hpm_8 -> Su_6^* Sd_1)
1.66397306E-09	2	-2000006	1000003	# BR(Hpm_8 -> Su_6^* Sd_2)
9.84669087E-14	2	-2000006	1000005	# BR(Hpm_8 -> Su_6^* Sd_3)
9.31910145E-09	2	-2000006	2000001	# BR(Hpm_8 -> Su_6^* Sd_4)
4.39121386E-07	2	-2000006	2000003	# BR(Hpm_8 -> Su_6^* Sd_5)
2.38821225E-11	2	-24	23	# BR(Hpm_8 -> Vwm VZ)