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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 25.09.2019, 13:14
Block SPINFO # Program information
  1 SPhenoSARAH # spectrum calculator
  2 v3.3.6 # version number of SPheno
  9 4.5.9b3 # version number of SARAH
Block MODSEL # Input parameters
  1 0 # SUSY Scale input
  2 1 # Boundary conditions
  6 1 # switching on flavour violation
Block MINPAR # Input parameters
  3 3.47814822E+00 # TanBeta
Block EXTPAR # Input parameters
  65 1.54636914E+02 # vR1Input
  66 1.54636914E+02 # vR2Input
  67 1.54636914E+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 2.98495635E+05 # mHd2
  22 3.14844019E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMIX # (SUSY Scale)
  102 6.55830331E+01 # vd
  103 2.28107510E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 5.15964166E-05 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 9.78552723E-04 # Real(Yd(2,2),dp)
  2 3 0.00000000E+00 # Real(Yd(2,3),dp)
  3 1 0.00000000E+00 # Real(Yd(3,1),dp)
  3 2 0.00000000E+00 # Real(Yd(3,2),dp)
  3 3 5.07068215E-02 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 1.03343777E-05 # Real(Ye(1,1),dp)
  1 2 0.00000000E+00 # Real(Ye(1,2),dp)
  1 3 0.00000000E+00 # Real(Ye(1,3),dp)
  2 1 0.00000000E+00 # Real(Ye(2,1),dp)
  2 2 2.18425365E-03 # Real(Ye(2,2),dp)

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2 3      0.00000000E+00 # Real(Ye(2,3),dp)
3 1      0.00000000E+00 # Real(Ye(3,1),dp)
3 2      0.00000000E+00 # Real(Ye(3,2),dp)
3 3      3.71323126E-02 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      4.99936992E-01 # Real(lam(1) ,dp)
  2      4.99936992E-01 # Real(lam(2) ,dp)
  3      4.99936992E-01 # Real(lam(3) ,dp)
Block Yv # (SUSY Scale)
  1 1      2.00000002E-07 # Real(Yv(1,1),dp)
  1 2      0.00000000E+00 # Real(Yv(1,2),dp)
  1 3      0.00000000E+00 # Real(Yv(1,3),dp)
  2 1      0.00000000E+00 # Real(Yv(2,1),dp)
  2 2      4.00000005E-07 # Real(Yv(2,2),dp)
  2 3      0.00000000E+00 # Real(Yv(2,3),dp)
  3 1      0.00000000E+00 # Real(Yv(3,1),dp)
  3 2      0.00000000E+00 # Real(Yv(3,2),dp)
  3 3      5.00000006E-08 # Real(Yv(3,3),dp)
Block Yu # (SUSY Scale)
  1 1      6.26495797E-06 # Real(Yu(1,1),dp)
  1 2      1.44908174E-06 # Real(Yu(1,2),dp)
  1 3      2.20240732E-08 # Real(Yu(1,3),dp)
  2 1      -7.06120362E-04 # Real(Yu(2,1),dp)
  2 2      3.05087795E-03 # Real(Yu(2,2),dp)
  2 3      1.29079787E-04 # Real(Yu(2,3),dp)
  3 1      5.23305303E-03 # Real(Yu(3,1),dp)
  3 2      -3.59873720E-02 # Real(Yu(3,2),dp)
  3 3      8.79210040E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      2.30875447E-01 # Real(kap(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(kap(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(kap(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(kap(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(kap(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(kap(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(kap(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(kap(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(kap(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(kap(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(kap(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(kap(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(kap(2,2,1),dp)
  2 2 2      2.35492952E-01 # Real(kap(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(kap(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(kap(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(kap(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(kap(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(kap(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(kap(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(kap(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(kap(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(kap(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(kap(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(kap(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(kap(3,3,2),dp)
  3 3 3      2.40110456E-01 # Real(kap(3,3,3),dp)
Block Td # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Td(1,1),dp)
  1 2      0.00000000E+00 # Real(Td(1,2),dp)
  1 3      0.00000000E+00 # Real(Td(1,3),dp)
  2 1      0.00000000E+00 # Real(Td(2,1),dp)
  2 2      0.00000000E+00 # Real(Td(2,2),dp)
  2 3      0.00000000E+00 # Real(Td(2,3),dp)
  3 1      0.00000000E+00 # Real(Td(3,1),dp)
  3 2      0.00000000E+00 # Real(Td(3,2),dp)
  3 3      1.00000000E+02 # Real(Td(3,3),dp)
Block Te # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Te(1,1),dp)
  1 2      0.00000000E+00 # Real(Te(1,2),dp)
  1 3      0.00000000E+00 # Real(Te(1,3),dp)
  2 1      0.00000000E+00 # Real(Te(2,1),dp)
  2 2      0.00000000E+00 # Real(Te(2,2),dp)
  2 3      0.00000000E+00 # Real(Te(2,3),dp)

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3 1      0.00000000E+00 # Real(Te(3,1),dp)
3 2      0.00000000E+00 # Real(Te(3,2),dp)
3 3      4.00000000E+01 # Real(Te(3,3),dp)
Block {NMSSMRUN, 3} # (SUSY Scale)
  1      3.09696997E+02 # Real(Tlam(1) ,dp)
  2      3.09696997E+02 # Real(Tlam(2) ,dp)
  3      3.09696997E+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     -3.86932137E+02 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1     -5.72396542E-01 # Real(Tk(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(Tk(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(Tk(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(Tk(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(Tk(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(Tk(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(Tk(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(Tk(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(Tk(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(Tk(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(Tk(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(Tk(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(Tk(2,2,1),dp)
  2 2 2     -5.72396542E-01 # Real(Tk(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(Tk(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(Tk(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(Tk(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(Tk(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(Tk(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(Tk(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(Tk(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(Tk(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(Tk(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(Tk(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(Tk(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(Tk(3,3,2),dp)
  3 3 3     -5.72396542E-01 # Real(Tk(3,3,3),dp)
Block MSQ2 # (SUSY Scale)
  1 1      1.00000000E+06 # Real(mq2(1,1),dp)
  1 2      0.00000000E+00 # Real(mq2(1,2),dp)
  1 3      0.00000000E+00 # Real(mq2(1,3),dp)
  2 1      0.00000000E+00 # Real(mq2(2,1),dp)
  2 2      1.00000000E+06 # Real(mq2(2,2),dp)
  2 3      0.00000000E+00 # Real(mq2(2,3),dp)
  3 1      0.00000000E+00 # Real(mq2(3,1),dp)
  3 2      0.00000000E+00 # Real(mq2(3,2),dp)
  3 3      1.79819406E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      1.66367618E+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      5.68884612E+04 # 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 5.23839751E+03 # 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 1.79819406E+06 # Real(mu2(3,3),dp)
Block MSE2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(me2(1,1),dp)
1 2 0.00000000E+00 # Real(me2(1,2),dp)
1 3 0.00000000E+00 # Real(me2(1,3),dp)
2 1 0.00000000E+00 # Real(me2(2,1),dp)
2 2 1.00000000E+06 # Real(me2(2,2),dp)
2 3 0.00000000E+00 # Real(me2(2,3),dp)
3 1 0.00000000E+00 # Real(me2(3,1),dp)
3 2 0.00000000E+00 # Real(me2(3,2),dp)
3 3 1.00000000E+06 # Real(me2(3,3),dp)
Block mv2 # (SUSY Scale)
1 1 1.47601943E+04 # Real(mv2(1,1),dp)
1 2 0.00000000E+00 # Real(mv2(1,2),dp)
1 3 0.00000000E+00 # Real(mv2(1,3),dp)
2 1 0.00000000E+00 # Real(mv2(2,1),dp)
2 2 1.47572060E+04 # Real(mv2(2,2),dp)
2 3 0.00000000E+00 # Real(mv2(2,3),dp)
3 1 0.00000000E+00 # Real(mv2(3,1),dp)
3 2 0.00000000E+00 # Real(mv2(3,2),dp)
3 3 1.47531422E+04 # Real(mv2(3,3),dp)
Block RVM2LH1 # (SUSY Scale)
1 0.00000000E+00 # mlHd2(1)
2 0.00000000E+00 # mlHd2(2)
3 0.00000000E+00 # mlHd2(3)
Block RIGHTVEV # (SUSY Scale)
1 1.54636914E+02 # vR(1)
2 1.54636914E+02 # vR(2)
3 1.54636914E+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 1.00024853E+03 # Sd_1
1000003 1.00025241E+03 # Sd_2
1000005 1.00025255E+03 # Sd_3
2000001 1.00143025E+03 # Sd_4
2000003 1.00143040E+03 # Sd_5
2000005 1.34204162E+03 # Sd_6
1000002 9.98820611E+02 # Su_1
1000004 9.98837297E+02 # Su_2
1000006 9.99494707E+02 # Su_3
2000002 9.99495051E+02 # Su_4
2000004 1.32194473E+03 # Su_5
2000006 1.37322245E+03 # Su_6
25 8.39636228E+01 # hh_1
35 1.23069963E+02 # hh_2
1000012 1.26318133E+02 # hh_3
1000014 1.26764907E+02 # hh_4
1000016 1.27475705E+02 # hh_5

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2000012      2.60709877E+02 # hh_6
2000014      4.23720029E+02 # hh_7
2000016      6.19467445E+02 # hh_8
   36      1.01291932E+02 # Ah_2
1000017      1.23069964E+02 # Ah_3
1000018      1.36480350E+02 # Ah_4
1000019      1.36878282E+02 # Ah_5
2000018      2.60709877E+02 # Ah_6
2000019      4.23720029E+02 # Ah_7
2000020      6.22499381E+02 # Ah_8
   37      1.41291448E+02 # Hpm_2
1000011      2.69390761E+02 # Hpm_3
2000011      4.25352745E+02 # Hpm_4
1000013      6.01587721E+02 # Hpm_5
2000013      1.00307494E+03 # Hpm_6
1000015      1.00313908E+03 # Hpm_7
2000015      1.00313919E+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      9.48606322E-12 # Chi_1
   14      2.93649899E-11 # Chi_2
   16      7.94619126E-11 # Chi_3
1000022      5.06876270E+01 # Chi_4
1000023      5.18385771E+01 # Chi_5
1000025      6.48130434E+01 # Chi_6
1000039      2.02751527E+02 # Chi_7
1000045      2.21609928E+02 # Chi_8
1000055      8.88780735E+02 # Chi_9
1000065      1.77128150E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      1.62361303E+02 # Cha_4
1000037      1.77135681E+03 # Cha_5
Block DSQMIX # ( )
 1 1 -0.00000000E+00 # Real(ZD(1,1),dp)
 1 2 -0.00000000E+00 # Real(ZD(1,2),dp)
 1 3  4.11720908E-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 -9.99991524E-01 # Real(ZD(1,6),dp)
 2 1 -2.40737509E-13 # Real(ZD(2,1),dp)
 2 2 -1.09782780E-02 # Real(ZD(2,2),dp)
 2 3 -0.00000000E+00 # Real(ZD(2,3),dp)
 2 4 -4.15860506E-10 # Real(ZD(2,4),dp)
 2 5 -9.99939737E-01 # Real(ZD(2,5),dp)
 2 6 -0.00000000E+00 # Real(ZD(2,6),dp)
 3 1  5.78959041E-04 # Real(ZD(3,1),dp)
 3 2 -4.54308727E-12 # Real(ZD(3,2),dp)
 3 3  0.00000000E+00 # Real(ZD(3,3),dp)
 3 4  9.9999832E-01 # Real(ZD(3,4),dp)
 3 5 -4.15835759E-10 # Real(ZD(3,5),dp)
 3 6  0.00000000E+00 # Real(ZD(3,6),dp)
 4 1 -9.9999832E-01 # Real(ZD(4,1),dp)
 4 2  1.06832309E-13 # Real(ZD(4,2),dp)
 4 3  0.00000000E+00 # Real(ZD(4,3),dp)
 4 4  5.78959041E-04 # Real(ZD(4,4),dp)
 4 5 -1.20163768E-15 # Real(ZD(4,5),dp)
 4 6  0.00000000E+00 # Real(ZD(4,6),dp)
 5 1  1.06826073E-13 # Real(ZD(5,1),dp)
 5 2  9.99939737E-01 # Real(ZD(5,2),dp)
 5 3  0.00000000E+00 # Real(ZD(5,3),dp)
 5 4 -2.22986454E-14 # Real(ZD(5,4),dp)
 5 5 -1.09782780E-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      9.99991524E-01 # Real(ZD(6,3),dp)
6 4      0.00000000E+00 # Real(ZD(6,4),dp)
6 5      0.00000000E+00 # Real(ZD(6,5),dp)
6 6      4.11720908E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1      9.89650219E-01 # Real(ZU(1,1),dp)
1 2      1.43493105E-01 # Real(ZU(1,2),dp)
1 3      -4.09860564E-07 # Real(ZU(1,3),dp)
1 4      3.61785523E-05 # Real(ZU(1,4),dp)
1 5      -1.47345575E-03 # Real(ZU(1,5),dp)
1 6      1.04180634E-07 # Real(ZU(1,6),dp)
2 1      -1.43443447E-01 # Real(ZU(2,1),dp)
2 2      9.89493188E-01 # Real(ZU(2,2),dp)
2 3      9.95009065E-04 # Real(ZU(2,3),dp)
2 4      3.09836604E-06 # Real(ZU(2,4),dp)
2 5      1.80597181E-02 # Real(ZU(2,5),dp)
2 6      -2.53487998E-04 # Real(ZU(2,6),dp)
3 1      3.53697015E-05 # Real(ZU(3,1),dp)
3 2      8.21344118E-06 # Real(ZU(3,2),dp)
3 3      2.82484683E-09 # Real(ZU(3,3),dp)
3 4      -9.99999999E-01 # Real(ZU(3,4),dp)
3 5      2.47904401E-06 # Real(ZU(3,5),dp)
3 6      -7.88303545E-10 # Real(ZU(3,6),dp)
4 1      4.04941892E-03 # Real(ZU(4,1),dp)
4 2      -1.76614380E-02 # Real(ZU(4,2),dp)
4 3      -1.67911677E-05 # Real(ZU(4,3),dp)
4 4      2.47680252E-06 # Real(ZU(4,4),dp)
4 5      9.99835824E-01 # Real(ZU(4,5),dp)
4 6      4.68598283E-06 # Real(ZU(4,6),dp)
5 1      -7.60947136E-05 # Real(ZU(5,1),dp)
5 2      5.23304150E-04 # Real(ZU(5,2),dp)
5 3      -7.10629906E-01 # Real(ZU(5,3),dp)
5 4      1.56152130E-10 # Real(ZU(5,4),dp)
5 5      9.15184820E-07 # Real(ZU(5,5),dp)
5 6      -7.03565816E-01 # Real(ZU(5,6),dp)
6 1      -1.26677599E-04 # Real(ZU(6,1),dp)
6 2      8.71158438E-04 # Real(ZU(6,2),dp)
6 3      -7.03565311E-01 # Real(ZU(6,3),dp)
6 4      1.28875780E-10 # Real(ZU(6,4),dp)
6 5      7.55322039E-07 # Real(ZU(6,5),dp)
6 6      7.10630057E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1      2.18752326E-01 # ZH(1,1)
1 2      1.18049430E-02 # ZH(1,2)
1 3      5.66794965E-01 # ZH(1,3)
1 4      5.63332844E-01 # ZH(1,4)
1 5      5.59828221E-01 # ZH(1,5)
1 6      5.60422987E-07 # ZH(1,6)
1 7      1.60784923E-06 # ZH(1,7)
1 8      3.43576909E-06 # ZH(1,8)
2 1      6.27574689E-06 # ZH(2,1)
2 2      2.71250640E-05 # ZH(2,2)
2 3      -1.94502643E-05 # ZH(2,3)
2 4      -1.60672842E-05 # ZH(2,4)
2 5      2.66987749E-05 # ZH(2,5)
2 6      -3.75544451E-14 # ZH(2,6)
2 7      1.64319078E-11 # ZH(2,7)
2 8      9.99999999E-01 # ZH(2,8)
3 1      -1.65667714E-02 # ZH(3,1)
3 2      -6.01649232E-02 # ZH(3,2)
3 3      7.91461659E-01 # ZH(3,3)
3 4      -5.64748523E-01 # ZH(3,4)
3 5      -2.25284870E-01 # ZH(3,5)
3 6      7.62831245E-07 # ZH(3,6)
3 7      -1.98032689E-06 # ZH(3,7)
3 8      1.40709398E-05 # ZH(3,8)
4 1      1.88989850E-02 # ZH(4,1)
4 2      6.93148612E-02 # ZH(4,2)
4 3      -1.93217235E-01 # ZH(4,3)
4 4      -5.90099522E-01 # ZH(4,4)
4 5      7.80568979E-01 # ZH(4,5)
4 6      -1.45814298E-07 # ZH(4,6)

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4	7	-1.75160979E-06	# ZH(4,7)
4	8	-3.60784338E-05	# ZH(4,8)
5	1	-2.48775498E-01	# ZH(5,1)
5	2	-9.61492223E-01	# ZH(5,2)
5	3	-2.41818664E-02	# ZH(5,3)
5	4	3.20885286E-02	# ZH(5,4)
5	5	1.09676889E-01	# ZH(5,5)
5	6	-7.29322391E-07	# ZH(5,6)
5	7	-2.39382514E-06	# ZH(5,7)
5	8	2.47587834E-05	# ZH(5,8)
6	1	-1.03111895E-06	# ZH(6,1)
6	2	-2.29526515E-06	# ZH(6,2)
6	3	2.70417432E-07	# ZH(6,3)
6	4	-2.97021691E-06	# ZH(6,4)
6	5	2.94296360E-07	# ZH(6,5)
6	6	-2.07235525E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	1.97769786E-12	# ZH(6,8)
7	1	4.23273794E-07	# ZH(7,1)
7	2	6.14911069E-07	# ZH(7,2)
7	3	9.50069115E-07	# ZH(7,3)
7	4	-6.96307652E-08	# ZH(7,4)
7	5	-6.91233880E-08	# ZH(7,5)
7	6	-1.00000000E+00	# ZH(7,6)
7	7	-6.67811411E-13	# ZH(7,7)
7	8	-1.67600532E-13	# ZH(7,8)
8	1	9.43200160E-01	# ZH(8,1)
8	2	-2.58783655E-01	# ZH(8,2)
8	3	-1.20059351E-01	# ZH(8,3)
8	4	-1.20283385E-01	# ZH(8,4)
8	5	-1.20507833E-01	# ZH(8,5)
8	6	1.42743629E-07	# ZH(8,6)
8	7	8.92378646E-08	# ZH(8,7)
8	8	4.98357932E-08	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	2.73958770E-01	# ZA(1,1)
1	2	-9.61682937E-01	# ZA(1,2)
1	3	-6.19945438E-03	# ZA(1,3)
1	4	-6.12392010E-03	# ZA(1,4)
1	5	-6.04865826E-03	# ZA(1,5)
1	6	6.00792288E-07	# ZA(1,6)
1	7	1.60182914E-06	# ZA(1,7)
1	8	1.60020421E-06	# ZA(1,8)
2	1	1.98602160E-01	# ZA(2,1)
2	2	4.57779649E-02	# ZA(2,2)
2	3	5.74705352E-01	# ZA(2,3)
2	4	5.65102276E-01	# ZA(2,4)
2	5	5.55729014E-01	# ZA(2,5)
2	6	5.37195742E-07	# ZA(2,6)
2	7	1.62486424E-06	# ZA(2,7)
2	8	6.20428104E-06	# ZA(2,8)
3	1	-1.67063292E-06	# ZA(3,1)
3	2	1.25448362E-06	# ZA(3,2)
3	3	-7.92403969E-06	# ZA(3,3)
3	4	-7.65293455E-06	# ZA(3,4)
3	5	5.30611365E-06	# ZA(3,5)
3	6	-8.91880146E-12	# ZA(3,6)
3	7	-2.68623142E-11	# ZA(3,7)
3	8	1.00000000E+00	# ZA(3,8)
4	1	1.68705024E-03	# ZA(4,1)
4	2	4.55618255E-04	# ZA(4,2)
4	3	-7.81882410E-01	# ZA(4,3)
4	4	5.86394751E-01	# ZA(4,4)
4	5	2.11655474E-01	# ZA(4,5)
4	6	-8.21752891E-07	# ZA(4,6)
4	7	2.06970832E-06	# ZA(4,7)
4	8	-2.82884772E-06	# ZA(4,8)
5	1	1.68218148E-03	# ZA(5,1)
5	2	4.55189427E-04	# ZA(5,2)
5	3	-2.10902239E-01	# ZA(5,3)
5	4	-5.68289074E-01	# ZA(5,4)
5	5	7.95339385E-01	# ZA(5,5)
5	6	-2.22109695E-07	# ZA(5,6)

5	7	-2.01065618E-06	# ZA(5,7)
5	8	-1.02381987E-05	# ZA(5,8)
6	1	-8.30499085E-07	# ZA(6,1)
6	2	1.44626228E-06	# ZA(6,2)
6	3	2.78941635E-07	# ZA(6,3)
6	4	-3.25610628E-06	# ZA(6,4)
6	5	2.76378488E-07	# ZA(6,5)
6	6	-9.78619793E-13	# ZA(6,6)
6	7	1.00000000E+00	# ZA(6,7)
6	8	-5.14376647E-13	# ZA(6,8)
7	1	4.02041498E-07	# ZA(7,1)
7	2	-5.15587491E-07	# ZA(7,2)
7	3	9.77785426E-07	# ZA(7,3)
7	4	-7.23077182E-08	# ZA(7,4)
7	5	-7.22029666E-08	# ZA(7,5)
7	6	-1.00000000E+00	# ZA(7,6)
7	7	-3.87477255E-13	# ZA(7,7)
7	8	-2.25033540E-14	# ZA(7,8)
8	1	9.41009085E-01	# ZA(8,1)
8	2	2.70314433E-01	# ZA(8,2)
8	3	-1.17709255E-01	# ZA(8,3)
8	4	-1.17518677E-01	# ZA(8,4)
8	5	-1.17328174E-01	# ZA(8,5)
8	6	1.40828518E-07	# ZA(8,6)
8	7	7.31693080E-08	# ZA(8,7)
8	8	2.34367987E-08	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	2.76007894E-01	# ZP(1,1)
1	2	-9.61155369E-01	# ZP(1,2)
1	3	6.29859840E-07	# ZP(1,3)
1	4	1.67490725E-06	# ZP(1,4)
1	5	2.22499090E-06	# ZP(1,5)
1	6	-2.89077786E-15	# ZP(1,6)
1	7	-8.22836457E-13	# ZP(1,7)
1	8	7.30590540E-11	# ZP(1,8)
2	1	6.49424059E-07	# ZP(2,1)
2	2	-2.12842156E-06	# ZP(2,2)
2	3	1.51937410E-12	# ZP(2,3)
2	4	5.16979271E-12	# ZP(2,4)
2	5	-9.99999617E-01	# ZP(2,5)
2	6	2.71130181E-20	# ZP(2,6)
2	7	-5.18638691E-17	# ZP(2,7)
2	8	8.75210352E-04	# ZP(2,8)
3	1	5.24251268E-07	# ZP(3,1)
3	2	-1.59205245E-06	# ZP(3,2)
3	3	1.69024356E-12	# ZP(3,3)
3	4	-9.99999998E-01	# ZP(3,4)
3	5	-1.44077964E-12	# ZP(3,5)
3	6	2.47158873E-17	# ZP(3,6)
3	7	-6.29260275E-05	# ZP(3,7)
3	8	5.96523300E-15	# ZP(3,8)
4	1	-2.71253595E-07	# ZP(4,1)
4	2	5.77421429E-07	# ZP(4,2)
4	3	1.00000000E+00	# ZP(4,3)
4	4	6.29023825E-13	# ZP(4,4)
4	5	1.14211733E-13	# ZP(4,5)
4	6	3.36385969E-07	# ZP(4,6)
4	7	1.33292887E-16	# ZP(4,7)
4	8	-3.52029676E-15	# ZP(4,8)
5	1	9.61155369E-01	# ZP(5,1)
5	2	2.76007894E-01	# ZP(5,2)
5	3	1.01343977E-07	# ZP(5,3)
5	4	6.44678737E-08	# ZP(5,4)
5	5	3.67572259E-08	# ZP(5,5)
5	6	1.23801990E-13	# ZP(5,6)
5	7	4.96365854E-11	# ZP(5,7)
5	8	2.39303961E-08	# ZP(5,8)
6	1	2.35893857E-08	# ZP(6,1)
6	2	4.67194233E-09	# ZP(6,2)
6	3	2.80718119E-16	# ZP(6,3)
6	4	2.24157584E-16	# ZP(6,4)
6	5	-8.75210352E-04	# ZP(6,5)
6	6	1.60539776E-17	# ZP(6,6)

6	7	6.24287755E-15	# ZP(6,7)
6	8	-9.99999617E-01	# ZP(6,8)
7	1	-1.44922222E-11	# ZP(7,1)
7	2	-1.14672810E-10	# ZP(7,2)
7	3	-4.58664529E-16	# ZP(7,3)
7	4	-6.29260275E-05	# ZP(7,4)
7	5	-2.36527063E-16	# ZP(7,5)
7	6	1.33007289E-09	# ZP(7,6)
7	7	9.99999998E-01	# ZP(7,7)
7	8	6.24210817E-15	# ZP(7,8)
8	1	-2.71561844E-14	# ZP(8,1)
8	2	-2.31232309E-13	# ZP(8,2)
8	3	-3.36385969E-07	# ZP(8,3)
8	4	8.37197685E-14	# ZP(8,4)
8	5	2.71322380E-19	# ZP(8,5)
8	6	1.00000000E+00	# ZP(8,6)
8	7	-1.33007284E-09	# ZP(8,7)
8	8	1.60521612E-17	# ZP(8,8)
Block UVMIX # ()			
1	1	-0.00000000E+00	# Real(UV(1,1), dp)
1	2	-0.00000000E+00	# Real(UV(1,2), dp)
1	3	0.00000000E+00	# Real(UV(1,3), dp)
1	4	0.00000000E+00	# Real(UV(1,4), dp)
1	5	-0.00000000E+00	# Real(UV(1,5), dp)
1	6	-0.00000000E+00	# Real(UV(1,6), dp)
1	7	-0.00000000E+00	# Real(UV(1,7), dp)
1	8	0.00000000E+00	# Real(UV(1,8), dp)
1	9	0.00000000E+00	# Real(UV(1,9), dp)
1	10	-0.00000000E+00	# Real(UV(1,10), dp)
2	1	0.00000000E+00	# Real(UV(2,1), dp)
2	2	-0.00000000E+00	# Real(UV(2,2), dp)
2	3	0.00000000E+00	# Real(UV(2,3), dp)
2	4	0.00000000E+00	# Real(UV(2,4), dp)
2	5	-0.00000000E+00	# Real(UV(2,5), dp)
2	6	0.00000000E+00	# Real(UV(2,6), dp)
2	7	-0.00000000E+00	# Real(UV(2,7), dp)
2	8	-0.00000000E+00	# Real(UV(2,8), dp)
2	9	0.00000000E+00	# Real(UV(2,9), dp)
2	10	-0.00000000E+00	# Real(UV(2,10), dp)
3	1	0.00000000E+00	# Real(UV(3,1), dp)
3	2	-0.00000000E+00	# Real(UV(3,2), dp)
3	3	-0.00000000E+00	# Real(UV(3,3), dp)
3	4	-0.00000000E+00	# Real(UV(3,4), dp)
3	5	0.00000000E+00	# Real(UV(3,5), dp)
3	6	-0.00000000E+00	# Real(UV(3,6), dp)
3	7	0.00000000E+00	# Real(UV(3,7), dp)
3	8	-0.00000000E+00	# Real(UV(3,8), dp)
3	9	0.00000000E+00	# Real(UV(3,9), dp)
3	10	-0.00000000E+00	# Real(UV(3,10), dp)
4	1	4.96831663E-07	# Real(UV(4,1), dp)
4	2	-7.24841857E-07	# Real(UV(4,2), dp)
4	3	-4.00678977E-08	# Real(UV(4,3), dp)
4	4	9.82246897E-04	# Real(UV(4,4), dp)
4	5	-8.67061027E-04	# Real(UV(4,5), dp)
4	6	1.31374956E-03	# Real(UV(4,6), dp)
4	7	-1.94150186E-02	# Real(UV(4,7), dp)
4	8	8.03863001E-01	# Real(UV(4,8), dp)
4	9	-5.57375540E-01	# Real(UV(4,9), dp)
4	10	-2.06776202E-01	# Real(UV(4,10), dp)
5	1	-1.22275974E-07	# Real(UV(5,1), dp)
5	2	-7.15652306E-07	# Real(UV(5,2), dp)
5	3	1.26792293E-07	# Real(UV(5,3), dp)
5	4	-1.04935086E-03	# Real(UV(5,4), dp)
5	5	9.25751214E-04	# Real(UV(5,5), dp)
5	6	-1.56373293E-03	# Real(UV(5,6), dp)
5	7	2.06692140E-02	# Real(UV(5,7), dp)
5	8	-2.15694550E-01	# Real(UV(5,8), dp)
5	9	-5.98058340E-01	# Real(UV(5,9), dp)
5	10	7.71602530E-01	# Real(UV(5,10), dp)
6	1	7.94675729E-08	# Real(UV(6,1), dp)
6	2	1.50314638E-07	# Real(UV(6,2), dp)
6	3	1.45699372E-07	# Real(UV(6,3), dp)
6	4	-3.47678028E-02	# Real(UV(6,4), dp)

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6 5      3.04734604E-02 # Real(UV(6,5),dp)
6 6     -1.10754074E-01 # Real(UV(6,6),dp)
6 7      6.58217124E-01 # Real(UV(6,7),dp)
6 8     -3.98134705E-01 # Real(UV(6,8),dp)
6 9     -4.26824432E-01 # Real(UV(6,9),dp)
6 10    -4.60060845E-01 # Real(UV(6,10),dp)
7 1      1.10947226E-07 # Real(UV(7,1),dp)
7 2      2.29952717E-07 # Real(UV(7,2),dp)
7 3      7.30402773E-08 # Real(UV(7,3),dp)
7 4     -3.90215657E-02 # Real(UV(7,4),dp)
7 5      3.23360723E-02 # Real(UV(7,5),dp)
7 6     -7.15347296E-01 # Real(UV(7,6),dp)
7 7      4.63191125E-01 # Real(UV(7,7),dp)
7 8      2.98719587E-01 # Real(UV(7,8),dp)
7 9      3.00633740E-01 # Real(UV(7,9),dp)
7 10     3.02572117E-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      2.80411369E-08 # Real(UV(9,1),dp)
9 2      7.59112897E-08 # Real(UV(9,2),dp)
9 3      1.07358563E-07 # Real(UV(9,3),dp)
9 4     -9.98531496E-01 # Real(UV(9,4),dp)
9 5     -4.65873955E-03 # Real(UV(9,5),dp)
9 6      2.20942420E-02 # Real(UV(9,6),dp)
9 7     -4.92427193E-02 # Real(UV(9,7),dp)
9 8     -2.21009928E-04 # Real(UV(9,8),dp)
9 9     -2.21490832E-04 # Real(UV(9,9),dp)
9 10    -2.21972221E-04 # Real(UV(9,10),dp)
10 1     -2.73960866E-08 # Real(UV(10,1),dp)
10 2     -7.36133598E-08 # Real(UV(10,2),dp)
10 3     -1.02337810E-07 # Real(UV(10,3),dp)
10 4      2.12098121E-03 # Real(UV(10,4),dp)
10 5     -9.98888397E-01 # Real(UV(10,5),dp)
10 6     -1.63031145E-02 # Real(UV(10,6),dp)
10 7      4.41750292E-02 # Real(UV(10,7),dp)
10 8      2.86682271E-04 # Real(UV(10,8),dp)
10 9      2.87184753E-04 # Real(UV(10,9),dp)
10 10     2.87686966E-04 # Real(UV(10,10),dp)
Block IMUVMIX # ( )
1 1     -8.25719618E-01 # Aimag(UV(1,1))
1 2     -2.55950633E-01 # Aimag(UV(1,2))
1 3      5.02669260E-01 # Aimag(UV(1,3))
1 4      8.05735525E-09 # Aimag(UV(1,4))
1 5     -7.51450513E-09 # Aimag(UV(1,5))
1 6     -1.61816269E-07 # Aimag(UV(1,6))
1 7     -4.15170334E-09 # Aimag(UV(1,7))
1 8      2.66148482E-07 # Aimag(UV(1,8))
1 9      6.52814399E-08 # Aimag(UV(1,9))
1 10    -3.26042019E-07 # Aimag(UV(1,10))
2 1      5.61168492E-01 # Aimag(UV(2,1))
2 2     -2.82298636E-01 # Aimag(UV(2,2))
2 3      7.78072879E-01 # Aimag(UV(2,3))
2 4      8.33446080E-08 # Aimag(UV(2,4))
2 5     -7.83699920E-08 # Aimag(UV(2,5))
2 6      7.13526804E-08 # Aimag(UV(2,6))
2 7     -7.04156659E-08 # Aimag(UV(2,7))
2 8     -2.75516012E-07 # Aimag(UV(2,8))
2 9      4.32021137E-07 # Aimag(UV(2,9))
2 10    -4.06819893E-08 # Aimag(UV(2,10))
3 1      5.72453993E-02 # Aimag(UV(3,1))
3 2     -9.24552191E-01 # Aimag(UV(3,2))
3 3     -3.76730952E-01 # Aimag(UV(3,3))
3 4     -1.22082108E-07 # Aimag(UV(3,4))
3 5      1.14844538E-07 # Aimag(UV(3,5))
3 6     -3.20320368E-07 # Aimag(UV(3,6))

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3 7 1.07757080E-07 # Aimag(UV(3,7))
3 8 -4.96628793E-07 # Aimag(UV(3,8))
3 9 7.02120401E-07 # Aimag(UV(3,9))
3 10 -3.84997865E-07 # Aimag(UV(3,10))
4 1 0.00000000E+00 # Aimag(UV(4,1))
4 2 0.00000000E+00 # Aimag(UV(4,2))
4 3 0.00000000E+00 # Aimag(UV(4,3))
4 4 0.00000000E+00 # Aimag(UV(4,4))
4 5 0.00000000E+00 # Aimag(UV(4,5))
4 6 0.00000000E+00 # Aimag(UV(4,6))
4 7 0.00000000E+00 # Aimag(UV(4,7))
4 8 0.00000000E+00 # Aimag(UV(4,8))
4 9 0.00000000E+00 # Aimag(UV(4,9))
4 10 0.00000000E+00 # Aimag(UV(4,10))
5 1 0.00000000E+00 # Aimag(UV(5,1))
5 2 0.00000000E+00 # Aimag(UV(5,2))
5 3 0.00000000E+00 # Aimag(UV(5,3))
5 4 0.00000000E+00 # Aimag(UV(5,4))
5 5 0.00000000E+00 # Aimag(UV(5,5))
5 6 0.00000000E+00 # Aimag(UV(5,6))
5 7 0.00000000E+00 # Aimag(UV(5,7))
5 8 0.00000000E+00 # Aimag(UV(5,8))
5 9 0.00000000E+00 # Aimag(UV(5,9))
5 10 0.00000000E+00 # Aimag(UV(5,10))
6 1 0.00000000E+00 # Aimag(UV(6,1))
6 2 0.00000000E+00 # Aimag(UV(6,2))
6 3 0.00000000E+00 # Aimag(UV(6,3))
6 4 0.00000000E+00 # Aimag(UV(6,4))
6 5 0.00000000E+00 # Aimag(UV(6,5))
6 6 0.00000000E+00 # Aimag(UV(6,6))
6 7 0.00000000E+00 # Aimag(UV(6,7))
6 8 0.00000000E+00 # Aimag(UV(6,8))
6 9 0.00000000E+00 # Aimag(UV(6,9))
6 10 0.00000000E+00 # Aimag(UV(6,10))
7 1 0.00000000E+00 # Aimag(UV(7,1))
7 2 0.00000000E+00 # Aimag(UV(7,2))
7 3 0.00000000E+00 # Aimag(UV(7,3))
7 4 0.00000000E+00 # Aimag(UV(7,4))
7 5 0.00000000E+00 # Aimag(UV(7,5))
7 6 0.00000000E+00 # Aimag(UV(7,6))
7 7 0.00000000E+00 # Aimag(UV(7,7))
7 8 0.00000000E+00 # Aimag(UV(7,8))
7 9 0.00000000E+00 # Aimag(UV(7,9))
7 10 0.00000000E+00 # Aimag(UV(7,10))
8 1 1.00178688E-07 # Aimag(UV(8,1))
8 2 2.02103272E-07 # Aimag(UV(8,2))
8 3 4.38878331E-08 # Aimag(UV(8,3))
8 4 1.40287116E-02 # Aimag(UV(8,4))
8 5 -1.49801437E-02 # Aimag(UV(8,5))
8 6 -6.89386440E-01 # Aimag(UV(8,6))
8 7 -5.89087227E-01 # Aimag(UV(8,7))
8 8 -2.43998710E-01 # Aimag(UV(8,8))
8 9 -2.43102565E-01 # Aimag(UV(8,9))
8 10 -2.42213003E-01 # Aimag(UV(8,10))
9 1 0.00000000E+00 # Aimag(UV(9,1))
9 2 0.00000000E+00 # Aimag(UV(9,2))
9 3 0.00000000E+00 # Aimag(UV(9,3))
9 4 0.00000000E+00 # Aimag(UV(9,4))
9 5 0.00000000E+00 # Aimag(UV(9,5))
9 6 0.00000000E+00 # Aimag(UV(9,6))
9 7 0.00000000E+00 # Aimag(UV(9,7))
9 8 0.00000000E+00 # Aimag(UV(9,8))
9 9 0.00000000E+00 # Aimag(UV(9,9))
9 10 0.00000000E+00 # Aimag(UV(9,10))
10 1 0.00000000E+00 # Aimag(UV(10,1))
10 2 0.00000000E+00 # Aimag(UV(10,2))
10 3 0.00000000E+00 # Aimag(UV(10,3))
10 4 0.00000000E+00 # Aimag(UV(10,4))
10 5 0.00000000E+00 # Aimag(UV(10,5))
10 6 0.00000000E+00 # Aimag(UV(10,6))
10 7 0.00000000E+00 # Aimag(UV(10,7))
10 8 0.00000000E+00 # Aimag(UV(10,8))
10 9 0.00000000E+00 # Aimag(UV(10,9))

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10 10      0.00000000E+00 # Aimag(UV(10,10))
Block UERMIX # ( )
 1 1      1.00000000E+00 # Real(ZER(1,1),dp)
 1 2      1.28225761E-06 # Real(ZER(1,2),dp)
 1 3      5.80706621E-09 # Real(ZER(1,3),dp)
 1 4     -4.24940469E-08 # Real(ZER(1,4),dp)
 1 5      1.66769101E-07 # Real(ZER(1,5),dp)
 2 1      1.28225768E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.55388402E-08 # Real(ZER(2,3),dp)
 2 4      1.11868603E-07 # Real(ZER(2,4),dp)
 2 5     -3.47583818E-07 # Real(ZER(2,5),dp)
 3 1     -5.80707485E-09 # Real(ZER(3,1),dp)
 3 2     -1.55389109E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.47473271E-07 # Real(ZER(3,4),dp)
 3 5      1.33995055E-07 # Real(ZER(3,5),dp)
 4 1      1.67703111E-07 # Real(ZER(4,1),dp)
 4 2      3.50068320E-07 # Real(ZER(4,2),dp)
 4 3      1.37356030E-07 # Real(ZER(4,3),dp)
 4 4      2.30313764E-02 # Real(ZER(4,4),dp)
 4 5     -9.99734743E-01 # Real(ZER(4,5),dp)
 5 1      3.86417191E-08 # Real(ZER(5,1),dp)
 5 2      1.03833643E-07 # Real(ZER(5,2),dp)
 5 3      1.44348064E-07 # Real(ZER(5,3),dp)
 5 4      9.99734743E-01 # Real(ZER(5,4),dp)
 5 5      2.30313764E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      7.01487414E-14 # Real(ZEL(1,2),dp)
 1 3      5.57078245E-15 # Real(ZEL(1,3),dp)
 1 4     -4.43153616E-13 # Real(ZEL(1,4),dp)
 1 5      7.15063545E-12 # Real(ZEL(1,5),dp)
 2 1      7.01481658E-14 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -3.10965807E-12 # Real(ZEL(2,3),dp)
 2 4      2.46231975E-10 # Real(ZEL(2,4),dp)
 2 5     -3.97739209E-09 # Real(ZEL(2,5),dp)
 3 1     -5.57149937E-15 # Real(ZEL(3,1),dp)
 3 2     -3.11007083E-12 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -5.52065418E-09 # Real(ZEL(3,4),dp)
 3 5      8.91424102E-08 # Real(ZEL(3,5),dp)
 4 1      7.16435324E-12 # Real(ZEL(4,1),dp)
 4 2      3.98500592E-09 # Real(ZEL(4,2),dp)
 4 3      8.93131804E-08 # Real(ZEL(4,3),dp)
 4 4      6.23958499E-02 # Real(ZEL(4,4),dp)
 4 5     -9.98051481E-01 # Real(ZEL(4,5),dp)
 5 1     -3.87985369E-15 # Real(ZEL(5,1),dp)
 5 2     -2.42057285E-12 # Real(ZEL(5,2),dp)
 5 3     -5.22193647E-11 # Real(ZEL(5,3),dp)
 5 4      9.98051481E-01 # Real(ZEL(5,4),dp)
 5 5      6.23958499E-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 1.08605864E-16 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 -1.08605864E-16 # 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 7.85251991E-04 # hh_1
# BR NDA ID1 ID2
3.82925867E-05 2 22 22 # BR(hh_1 -> VP VP )
3.25135674E-04 2 21 21 # BR(hh_1 -> VG VG )
3.07044433E-08 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
1.08714203E-08 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
1.22075191E-29 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
1.06166210E-25 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
1.22075191E-29 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
4.85645806E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
4.88351094E-25 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
1.06166210E-25 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
4.88351094E-25 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
1.39976081E-01 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
1.52083230E-24 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
1.00969773E-23 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
1.92912468E-23 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
3.41633930E-12 2 12 1000022 # BR(hh_1 -> Chi_1 Chi_4 )
6.76928049E-12 2 12 1000023 # BR(hh_1 -> Chi_1 Chi_5 )
1.74912965E-13 2 12 1000025 # BR(hh_1 -> Chi_1 Chi_6 )
5.10349554E-23 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
4.98605628E-22 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
1.20080075E-11 2 14 1000022 # BR(hh_1 -> Chi_2 Chi_4 )
2.95377429E-12 2 14 1000023 # BR(hh_1 -> Chi_2 Chi_5 )
6.62725007E-15 2 14 1000025 # BR(hh_1 -> Chi_2 Chi_6 )
5.68796510E-23 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
2.92382692E-11 2 16 1000022 # BR(hh_1 -> Chi_3 Chi_4 )
2.10310360E-11 2 16 1000023 # BR(hh_1 -> Chi_3 Chi_5 )
2.74337683E-13 2 16 1000025 # BR(hh_1 -> Chi_3 Chi_6 )
8.96721941E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
3.22542462E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
8.58841734E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
4.05617685E-11 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
9.63050033E-06 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 6.78677352E-04 # hh_2
# BR NDA ID1 ID2
1.26563145E-11 2 22 22 # BR(hh_2 -> VP VP )
4.12353922E-10 2 21 21 # BR(hh_2 -> VG VG )
9.00432391E-11 2 23 23 # BR(hh_2 -> VZ VZ )
8.79085943E-10 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
1.51746386E-17 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
6.45301585E-14 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
6.77881713E-13 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
2.87211981E-13 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
6.45301585E-14 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
2.87211981E-13 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
1.81528460E-10 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
5.60499196E-14 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )
3.99924092E-12 2 12 14 # BR(hh_2 -> Chi_1 Chi_2 )
7.16039498E-12 2 12 16 # BR(hh_2 -> Chi_1 Chi_3 )
2.68029362E-04 2 12 1000022 # BR(hh_2 -> Chi_1 Chi_4 )
2.99969672E-04 2 12 1000023 # BR(hh_2 -> Chi_1 Chi_5 )
2.52108376E-01 2 12 1000025 # BR(hh_2 -> Chi_1 Chi_6 )

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1.45193121E-11	2		14	14	# BR(hh_2 -> Chi_2 Chi_2)
2.75870289E-11	2		14	16	# BR(hh_2 -> Chi_2 Chi_3)
6.42182182E-04	2		14	1000022	# BR(hh_2 -> Chi_2 Chi_4)
7.18709276E-04	2		14	1000023	# BR(hh_2 -> Chi_2 Chi_5)
6.04036489E-01	2		14	1000025	# BR(hh_2 -> Chi_2 Chi_6)
7.30724484E-12	2		16	16	# BR(hh_2 -> Chi_3 Chi_3)
1.50549863E-04	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
1.68490448E-04	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
1.41607164E-01	2		16	1000025	# BR(hh_2 -> Chi_3 Chi_6)
1.90084432E-08	2	1000022		1000022	# BR(hh_2 -> Chi_4 Chi_4)
5.54899154E-09	2	1000022		1000023	# BR(hh_2 -> Chi_4 Chi_5)
7.44470558E-10	2	1000022		1000025	# BR(hh_2 -> Chi_4 Chi_6)
5.74764422E-09	2	1000023		1000023	# BR(hh_2 -> Chi_5 Chi_5)
6.00010845E-09	2	1000023		1000025	# BR(hh_2 -> Chi_5 Chi_6)
1.25167006E-15	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
4.50214199E-13	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
1.20459350E-09	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
3.63192797E-16	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
8.62604593E-11	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
DECAY	1000012	2.57911506E-02	# hh_3		
#	BR	NDA	ID1	ID2	
1.46224297E-06	2		22	22	# BR(hh_3 -> VP VP)
5.76700649E-05	2		21	21	# BR(hh_3 -> VG VG)
1.61526065E-05	2		23	23	# BR(hh_3 -> VZ VZ)
1.44149392E-04	2		24	-24	# BR(hh_3 -> Vwm^* Vwm_virt)
2.85607458E-12	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
5.06558991E-25	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3)
1.27586640E-07	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
1.11106544E-24	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
5.06558991E-25	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1)
1.11106544E-24	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
3.68289364E-05	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
1.53701028E-25	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
2.42577969E-23	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
2.68033703E-23	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
4.63800707E-13	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
1.14854534E-14	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
1.96916311E-13	2		12	1000025	# BR(hh_3 -> Chi_1 Chi_6)
9.65554394E-23	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
1.37882975E-22	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
9.38798867E-14	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
6.81828665E-13	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
1.08529459E-11	2		14	1000025	# BR(hh_3 -> Chi_2 Chi_6)
1.48332545E-23	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
2.99861229E-13	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
2.02511930E-12	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)
2.22754709E-12	2		16	1000025	# BR(hh_3 -> Chi_3 Chi_6)
2.29336519E-01	2	1000022		1000022	# BR(hh_3 -> Chi_4 Chi_4)
3.52697550E-01	2	1000022		1000023	# BR(hh_3 -> Chi_4 Chi_5)
2.32877594E-01	2	1000022		1000025	# BR(hh_3 -> Chi_4 Chi_6)
1.84577773E-01	2	1000023		1000023	# BR(hh_3 -> Chi_5 Chi_5)
1.58579107E-05	2	1000023		1000025	# BR(hh_3 -> Chi_5 Chi_6)
2.35581429E-10	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1)
8.47364726E-08	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2)
2.26766881E-04	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3)
4.82601518E-11	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1)
1.14622301E-05	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2)
DECAY	1000014	2.42759189E-02	# hh_4		
#	BR	NDA	ID1	ID2	
2.09656935E-06	2		22	22	# BR(hh_4 -> VP VP)
8.23079080E-05	2		21	21	# BR(hh_4 -> VG VG)
2.41521151E-05	2		23	23	# BR(hh_4 -> VZ VZ)
2.13273266E-04	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt)
3.96277240E-12	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
3.56009558E-29	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
2.52677917E-24	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
3.56009558E-29	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)
1.77025081E-07	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2)
1.21968020E-23	2		-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
2.52677917E-24	2		-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
1.21968020E-23	2		-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
5.11001756E-05	2		-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
2.47209280E-24	2		12	12	# BR(hh_4 -> Chi_1 Chi_1)

1.40540313E-22	2		12	14	# BR(hh_4 -> Chi_1 Chi_2)
2.37823057E-22	2		12	16	# BR(hh_4 -> Chi_1 Chi_3)
2.99510164E-14	2		12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
4.66243945E-13	2		12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
3.76009132E-12	2		12	1000025	# BR(hh_4 -> Chi_1 Chi_6)
5.01826625E-22	2		14	14	# BR(hh_4 -> Chi_2 Chi_2)
1.15090982E-21	2		14	16	# BR(hh_4 -> Chi_2 Chi_3)
9.92663359E-13	2		14	1000022	# BR(hh_4 -> Chi_2 Chi_4)
1.28564308E-13	2		14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
1.61867004E-11	2		14	1000025	# BR(hh_4 -> Chi_2 Chi_6)
3.16038142E-22	2		16	16	# BR(hh_4 -> Chi_3 Chi_3)
2.27360555E-12	2		16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
4.20791416E-14	2		16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
2.09812075E-11	2		16	1000025	# BR(hh_4 -> Chi_3 Chi_6)
1.84060401E-01	2	1000022	1000022	1000022	# BR(hh_4 -> Chi_4 Chi_4)
3.96526718E-01	2	1000022	1000023	1000023	# BR(hh_4 -> Chi_4 Chi_5)
3.22184712E-05	2	1000022	1000025	1000025	# BR(hh_4 -> Chi_4 Chi_6)
1.41602907E-01	2	1000023	1000023	1000023	# BR(hh_4 -> Chi_5 Chi_5)
2.77073664E-01	2	1000023	1000025	1000025	# BR(hh_4 -> Chi_5 Chi_6)
3.26866669E-10	2	-1	1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.17570934E-07	2	-3	3	3	# BR(hh_4 -> Fd_2^* Fd_2)
3.14644933E-04	2	-5	5	5	# BR(hh_4 -> Fd_3^* Fd_3)
6.82940781E-11	2	-2	2	2	# BR(hh_4 -> Fu_1^* Fu_1)
1.62205009E-05	2	-4	4	4	# BR(hh_4 -> Fu_2^* Fu_2)
DECAY	1000016	3.64171081E-03	#	hh_5	
#	BR	NDA	ID1	ID2	
2.77688044E-03	2	22	22	22	# BR(hh_5 -> VP VP)
1.07785074E-01	2	21	21	21	# BR(hh_5 -> VG VG)
3.37835201E-02	2	23	23	23	# BR(hh_5 -> VZ VZ)
2.93591883E-01	2	24	-24	-24	# BR(hh_5 -> Vwm^* Vwm_virt)
4.60294705E-09	2	-11	11	11	# BR(hh_5 -> Cha_1^* Cha_1)
1.27095764E-28	2	-11	13	13	# BR(hh_5 -> Cha_1^* Cha_2)
8.23030637E-24	2	-11	15	15	# BR(hh_5 -> Cha_1^* Cha_3)
1.27095764E-28	2	-13	11	11	# BR(hh_5 -> Cha_2^* Cha_1)
2.05622990E-04	2	-13	13	13	# BR(hh_5 -> Cha_2^* Cha_2)
3.60983207E-23	2	-13	15	15	# BR(hh_5 -> Cha_2^* Cha_3)
8.23030637E-24	2	-15	11	11	# BR(hh_5 -> Cha_3^* Cha_1)
3.60983207E-23	2	-15	13	13	# BR(hh_5 -> Cha_3^* Cha_2)
5.93560427E-02	2	-15	15	15	# BR(hh_5 -> Cha_3^* Cha_3)
4.22572300E-25	2	12	12	12	# BR(hh_5 -> Chi_1 Chi_1)
5.83077196E-22	2	12	14	14	# BR(hh_5 -> Chi_1 Chi_2)
1.05882409E-21	2	12	16	16	# BR(hh_5 -> Chi_1 Chi_3)
2.16140621E-12	2	12	1000022	1000022	# BR(hh_5 -> Chi_1 Chi_4)
6.07967280E-12	2	12	1000023	1000023	# BR(hh_5 -> Chi_1 Chi_5)
4.30640146E-11	2	12	1000025	1000025	# BR(hh_5 -> Chi_1 Chi_6)
1.50209287E-21	2	14	14	14	# BR(hh_5 -> Chi_2 Chi_2)
3.77011061E-21	2	14	16	16	# BR(hh_5 -> Chi_2 Chi_3)
1.12421457E-11	2	14	1000022	1000022	# BR(hh_5 -> Chi_2 Chi_4)
2.07168205E-12	2	14	1000023	1000023	# BR(hh_5 -> Chi_2 Chi_5)
5.70874804E-11	2	14	1000025	1000025	# BR(hh_5 -> Chi_2 Chi_6)
1.32869444E-22	2	16	16	16	# BR(hh_5 -> Chi_3 Chi_3)
2.18629858E-11	2	16	1000022	1000022	# BR(hh_5 -> Chi_3 Chi_4)
2.28316342E-11	2	16	1000023	1000023	# BR(hh_5 -> Chi_3 Chi_5)
2.36296974E-12	2	16	1000025	1000025	# BR(hh_5 -> Chi_3 Chi_6)
1.13292799E-05	2	1000022	1000022	1000022	# BR(hh_5 -> Chi_4 Chi_4)
2.51471149E-04	2	1000022	1000023	1000023	# BR(hh_5 -> Chi_4 Chi_5)
1.11197422E-02	2	1000022	1000025	1000025	# BR(hh_5 -> Chi_4 Chi_6)
8.94890356E-02	2	1000023	1000023	1000023	# BR(hh_5 -> Chi_5 Chi_5)
1.50802355E-02	2	1000023	1000025	1000025	# BR(hh_5 -> Chi_5 Chi_6)
3.79671053E-07	2	-1	1	1	# BR(hh_5 -> Fd_1^* Fd_1)
1.36564186E-04	2	-3	3	3	# BR(hh_5 -> Fd_2^* Fd_2)
3.65490140E-01	2	-5	5	5	# BR(hh_5 -> Fd_3^* Fd_3)
8.80887575E-08	2	-2	2	2	# BR(hh_5 -> Fu_1^* Fu_1)
2.09219862E-02	2	-4	4	4	# BR(hh_5 -> Fu_2^* Fu_2)
DECAY	2000012	6.30040030E-03	#	hh_6	
#	BR	NDA	ID1	ID2	
1.11635778E-14	2	22	22	22	# BR(hh_6 -> VP VP)
4.71781146E-12	2	21	21	21	# BR(hh_6 -> VG VG)
2.49773158E-10	2	36	36	36	# BR(hh_6 -> Ah_2 Ah_2)
3.59138946E-20	2	36	1000017	1000017	# BR(hh_6 -> Ah_2 Ah_3)
1.79287514E-11	2	36	1000018	1000018	# BR(hh_6 -> Ah_2 Ah_4)
1.45169208E-11	2	36	1000019	1000019	# BR(hh_6 -> Ah_2 Ah_5)
2.98601734E-11	2	1000017	1000017	1000017	# BR(hh_6 -> Ah_3 Ah_3)

2.29885101E-22	2	1000017	1000018	# BR(hh_6 -> Ah_3 Ah_4)
1.24650702E-21	2	1000017	1000019	# BR(hh_6 -> Ah_3 Ah_5)
6.76180150E-10	2	36	23	# BR(hh_6 -> Ah_2 VZ)
7.06256870E-20	2	1000017	23	# BR(hh_6 -> Ah_3 VZ)
4.49068135E-10	2	1000018	23	# BR(hh_6 -> Ah_4 VZ)
4.16905890E-10	2	1000019	23	# BR(hh_6 -> Ah_5 VZ)
9.34771965E-20	2	-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
5.09737654E-17	2	-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
2.68449486E-24	2	-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
5.09737654E-17	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
8.22297004E-15	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
5.72608661E-15	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
2.64219188E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
5.72608661E-15	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
1.20647961E-12	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
5.80155957E-24	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
2.68449486E-24	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1)
2.64219188E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2)
5.80155957E-24	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3)
3.31606765E-15	2	12	12	# BR(hh_6 -> Chi_1 Chi_1)
2.19308843E-13	2	12	14	# BR(hh_6 -> Chi_1 Chi_2)
2.23978984E-13	2	12	16	# BR(hh_6 -> Chi_1 Chi_3)
2.12920367E-05	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
2.41953276E-05	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
2.51398074E-02	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
5.24574787E-03	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
4.61301377E-04	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
4.36137745E-13	2	14	14	# BR(hh_6 -> Chi_2 Chi_2)
7.14336103E-13	2	14	16	# BR(hh_6 -> Chi_2 Chi_3)
2.59013468E-05	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
2.94331435E-05	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
3.05820849E-02	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
6.38134986E-03	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
5.61164118E-04	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
1.00427938E-11	2	16	16	# BR(hh_6 -> Chi_3 Chi_3)
2.77822652E-04	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
3.15705360E-04	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
3.28029118E-01	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
6.84475428E-02	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
6.01915047E-03	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
3.69790652E-11	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4)
1.66296883E-10	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5)
1.47296017E-10	2	1000022	1000025	# BR(hh_6 -> Chi_4 Chi_6)
1.16140858E-13	2	1000022	1000039	# BR(hh_6 -> Chi_4 Chi_7)
5.66344126E-11	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5)
2.08874350E-10	2	1000023	1000025	# BR(hh_6 -> Chi_5 Chi_6)
1.86661155E-13	2	1000023	1000039	# BR(hh_6 -> Chi_5 Chi_7)
3.07191334E-10	2	1000025	1000025	# BR(hh_6 -> Chi_6 Chi_6)
7.71040492E-18	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
2.77336215E-15	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
7.44202496E-12	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
5.93419808E-19	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
1.40967684E-13	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
1.66972647E-10	2	25	25	# BR(hh_6 -> hh_1 hh_1)
8.32869083E-19	2	25	35	# BR(hh_6 -> hh_1 hh_2)
4.16581608E-11	2	25	1000012	# BR(hh_6 -> hh_1 hh_3)
1.93851003E-12	2	25	1000014	# BR(hh_6 -> hh_1 hh_4)
1.54531711E-09	2	25	1000016	# BR(hh_6 -> hh_1 hh_5)
2.98601747E-11	2	35	35	# BR(hh_6 -> hh_2 hh_2)
4.50067481E-19	2	35	1000012	# BR(hh_6 -> hh_2 hh_3)
2.39326114E-19	2	35	1000014	# BR(hh_6 -> hh_2 hh_4)
1.90849997E-19	2	35	1000016	# BR(hh_6 -> hh_2 hh_5)
2.36402957E-12	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3)
5.12124432E-12	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4)
5.52136078E-10	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5)
7.00460914E-12	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4)
3.85700175E-10	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5)
3.90955330E-10	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5)
7.10065611E-22	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
7.10065611E-22	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
3.79118839E-10	2	-24	24	# BR(hh_6 -> Vwm Vwm^*)
1.63620512E-10	2	23	23	# BR(hh_6 -> VZ VZ)

DECAY 2000014 1.83628523E-02 # hh_7

#	BR	NDA	ID1	ID2	
	2.94738481E-15	2	22	22	# BR(hh_7 -> VP VP)
	8.56197185E-13	2	21	21	# BR(hh_7 -> VG VG)
	1.37273641E-11	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
	9.67713256E-22	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)
	3.87458756E-12	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
	2.52316065E-13	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)
	1.94411138E-23	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
	1.45431547E-12	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)
	3.04648385E-22	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)
	1.69772949E-22	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)
	9.89361494E-13	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)
	3.61667524E-14	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)
	1.23712664E-21	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)
	2.65107109E-13	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)
	1.98212449E-23	2	1000019	2000018	# BR(hh_7 -> Ah_5 Ah_6)
	2.28859848E-10	2	36	23	# BR(hh_7 -> Ah_2 VZ)
	4.70998214E-20	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
	5.57486177E-10	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
	4.07434407E-11	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
	1.60951353E-22	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
	1.84353346E-20	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
	6.32113040E-18	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
	3.17452143E-15	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
	2.85418542E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
	6.32113040E-18	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
	3.92389825E-16	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
	1.65531558E-24	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
	3.17452143E-15	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
	1.13388742E-13	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)
	7.48766870E-25	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
	2.85418542E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
	1.65531558E-24	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
	7.48766870E-25	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)
	1.67674163E-11	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)
	1.92453443E-14	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)
	9.08823224E-13	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)
	2.25382415E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)
	1.29678833E-04	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)
	1.47697332E-04	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)
	1.58092766E-01	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)
	1.15885196E-01	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
	1.83534675E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
	9.61041591E-13	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)
	8.92925892E-13	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)
	5.98949830E-05	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
	6.82172175E-05	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
	7.30185742E-02	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
	5.35240924E-02	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
	8.47694717E-03	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
	2.14695217E-14	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)
	6.23282688E-07	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
	7.09886010E-07	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
	7.59850177E-04	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
	5.56985555E-04	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
	8.82133057E-05	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
	1.63626214E-11	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
	3.14516577E-12	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)
	3.19664297E-11	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)
	2.02179409E-13	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)
	4.06573488E-14	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)
	1.61785626E-14	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)
	2.87975536E-12	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)
	2.89778256E-14	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)
	1.31810494E-14	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)
	4.31089841E-11	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6)
	2.67067332E-12	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7)
	8.07479337E-12	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8)
	1.04347982E-12	2	1000039	1000039	# BR(hh_7 -> Chi_7 Chi_7)
	7.24522581E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)
	2.60604144E-16	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)
	6.99608779E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)
	2.37503729E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)

5.64208402E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)	
1.15132778E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)	
8.07068943E-12	2	25	25	# BR(hh_7 -> hh_1 hh_1)	
2.05455657E-19	2	25	35	# BR(hh_7 -> hh_1 hh_2)	
1.47916196E-14	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)	
9.64157892E-13	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)	
3.18786819E-10	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)	
2.46111687E-21	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)	
1.45431551E-12	2	35	35	# BR(hh_7 -> hh_2 hh_2)	
4.69829637E-19	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)	
2.74262237E-20	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)	
8.73710685E-20	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)	
4.11264799E-12	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)	
3.46413873E-12	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)	
5.87111351E-10	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)	
1.06681541E-21	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)	
1.40411021E-12	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)	
2.82779360E-11	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)	
3.60725255E-22	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)	
5.43209616E-11	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)	
1.77880899E-22	2	1000016	2000012	# BR(hh_7 -> hh_5 hh_6)	
8.07460393E-13	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)	
4.50453533E-23	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^*)	
4.50453533E-23	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)	
5.73323424E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^*)	
5.73323424E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm)	
8.93315438E-12	2	-24	24	# BR(hh_7 -> Vwm Vwm^*)	
4.21648357E-12	2	23	23	# BR(hh_7 -> VZ VZ)	
DECAY	2000016	1.50379184E+01	# hh_8		
#	BR	NDA	ID1	ID2	
1.95297599E-06	2		22	22	# BR(hh_8 -> VP VP)
2.94573044E-04	2		21	21	# BR(hh_8 -> VG VG)
4.76846386E-04	2		36	36	# BR(hh_8 -> Ah_2 Ah_2)
5.90305841E-13	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
6.45019180E-08	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
6.27036649E-08	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
3.37149902E-13	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
9.46715346E-15	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
2.97548515E-04	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
5.16901544E-16	2	1000017	1000017	1000018	# BR(hh_8 -> Ah_3 Ah_4)
1.24777485E-14	2	1000017	1000017	1000019	# BR(hh_8 -> Ah_3 Ah_5)
1.38659007E-23	2	1000017	1000017	2000018	# BR(hh_8 -> Ah_3 Ah_6)
1.09686236E-27	2	1000017	1000017	2000019	# BR(hh_8 -> Ah_3 Ah_7)
4.41272398E-04	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
2.70686758E-13	2	1000018	1000018	1000019	# BR(hh_8 -> Ah_4 Ah_5)
8.73449437E-15	2	1000018	1000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
1.31831865E-14	2	1000018	1000018	2000019	# BR(hh_8 -> Ah_4 Ah_7)
4.59296332E-04	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
1.02342500E-14	2	1000019	1000019	2000018	# BR(hh_8 -> Ah_5 Ah_6)
1.02059145E-15	2	1000019	1000019	2000019	# BR(hh_8 -> Ah_5 Ah_7)
1.75062187E-04	2	2000018	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
1.81717979E-01	2	36		23	# BR(hh_8 -> Ah_2 VZ)
6.33608365E-12	2	1000017		23	# BR(hh_8 -> Ah_3 VZ)
1.24394478E-05	2	1000018		23	# BR(hh_8 -> Ah_4 VZ)
1.23591837E-05	2	1000019		23	# BR(hh_8 -> Ah_5 VZ)
2.70737074E-13	2	2000018		23	# BR(hh_8 -> Ah_6 VZ)
5.84724379E-15	2	2000019		23	# BR(hh_8 -> Ah_7 VZ)
7.78641054E-11	2	-11		11	# BR(hh_8 -> Cha_1^* Cha_1)
1.54432734E-30	2	-11		13	# BR(hh_8 -> Cha_1^* Cha_2)
8.34100419E-28	2	-11		15	# BR(hh_8 -> Cha_1^* Cha_3)
3.61626610E-17	2	-11	-1000024		# BR(hh_8 -> Cha_1^* Cha_4)
1.54432734E-30	2	-13		11	# BR(hh_8 -> Cha_2^* Cha_1)
3.47836141E-06	2	-13		13	# BR(hh_8 -> Cha_2^* Cha_2)
3.78311936E-27	2	-13		15	# BR(hh_8 -> Cha_2^* Cha_3)
4.65848912E-17	2	-13	-1000024		# BR(hh_8 -> Cha_2^* Cha_4)
8.34100419E-28	2	-15		11	# BR(hh_8 -> Cha_3^* Cha_1)
3.78311936E-27	2	-15		13	# BR(hh_8 -> Cha_3^* Cha_2)
1.00519703E-03	2	-15		15	# BR(hh_8 -> Cha_3^* Cha_3)
2.43955761E-16	2	-15	-1000024		# BR(hh_8 -> Cha_3^* Cha_4)
3.61626610E-17	2	1000024		11	# BR(hh_8 -> Cha_4^* Cha_1)
4.65848912E-17	2	1000024		13	# BR(hh_8 -> Cha_4^* Cha_2)
2.43955761E-16	2	1000024		15	# BR(hh_8 -> Cha_4^* Cha_3)
2.34055641E-02	2	1000024	-1000024		# BR(hh_8 -> Cha_4^* Cha_4)

2.15107283E-28	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
1.14797271E-28	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
2.24347078E-28	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
3.65706151E-17	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
7.43531050E-17	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
8.76273920E-17	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
5.82129949E-18	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
3.36230742E-17	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
1.54137916E-28	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
4.22588693E-27	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
7.15655755E-17	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
6.10780128E-17	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
4.97559437E-15	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
1.36547973E-15	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
1.18540065E-15	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
1.09885898E-27	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
3.98074694E-16	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
1.22972847E-16	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)
1.10642332E-14	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
3.26647946E-15	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
2.45490414E-15	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
1.19706078E-03	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
5.31122713E-07	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
5.13316298E-04	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
9.48783030E-07	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
9.56985362E-06	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
1.25188703E-03	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
5.79652152E-04	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
1.00665802E-06	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
1.06600963E-05	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
2.33031673E-01	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
3.18981019E-04	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
8.32690585E-03	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
9.26780596E-02	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
1.01957332E-01	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
2.06863121E-03	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
6.42256962E-09	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
2.31013943E-06	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
6.20248743E-03	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
7.50950704E-12	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
1.78395370E-06	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
9.12142428E-02	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
7.50697892E-03	2	25	25	# BR(hh_8 -> hh_1 hh_1)
1.87582769E-10	2	25	35	# BR(hh_8 -> hh_1 hh_2)
8.71635342E-04	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
1.15806530E-03	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
2.24624813E-01	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
9.05904282E-13	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
5.03131960E-14	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
2.97548518E-04	2	35	35	# BR(hh_8 -> hh_2 hh_2)
2.41497117E-13	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
3.47012536E-12	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
3.50138950E-11	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
1.69521751E-23	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
2.63980084E-27	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
8.25194032E-04	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
4.53435157E-07	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
1.27351421E-04	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
5.67509205E-14	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)
2.02752399E-14	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
8.62062227E-04	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
1.80682298E-04	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
3.37722907E-14	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
6.84232406E-16	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
1.44171261E-02	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
1.86515007E-13	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
2.25344315E-14	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
1.75062187E-04	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
1.73213849E-04	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
1.62770109E-26	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3)
1.05584320E-26	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4)
1.62770109E-26	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2)
9.67983596E-05	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)

	1.05584320E-26	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2)
	6.05390464E-16	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
	6.05390464E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
	1.18250049E-16	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
	1.18250049E-16	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
	7.75844544E-16	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
	7.75844544E-16	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
	6.80527706E-04	2	-24	24	# BR(hh_8 -> Vwm Vwm^*)
	3.31744095E-04	2	23	23	# BR(hh_8 -> VZ VZ)
DECAY	36	7.87526441E-04	# Ah_2		
#	BR	NDA	ID1	ID2	
	4.42821431E-04	2	22	22	# BR(Ah_2 -> VP VP)
	1.94532386E-03	2	21	21	# BR(Ah_2 -> VG VG)
	1.07789497E-08	2	-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
	2.35626461E-29	2	-11	13	# BR(Ah_2 -> Cha_1^* Cha_2)
	9.38313761E-25	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
	2.35626461E-29	2	-13	11	# BR(Ah_2 -> Cha_2^* Cha_1)
	4.81518506E-04	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
	4.11759253E-24	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
	9.38313761E-25	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
	4.11759253E-24	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
	1.39073500E-01	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
	1.07281504E-24	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1)
	6.84106655E-23	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2)
	1.25282125E-22	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3)
	6.49024668E-12	2	12	1000022	# BR(Ah_2 -> Chi_1 Chi_4)
	1.29487430E-11	2	12	1000023	# BR(Ah_2 -> Chi_1 Chi_5)
	2.77113951E-12	2	12	1000025	# BR(Ah_2 -> Chi_1 Chi_6)
	2.69160642E-22	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2)
	1.43221903E-21	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3)
	2.42987334E-11	2	14	1000022	# BR(Ah_2 -> Chi_2 Chi_4)
	5.32624705E-12	2	14	1000023	# BR(Ah_2 -> Chi_2 Chi_5)
	5.56819276E-12	2	14	1000025	# BR(Ah_2 -> Chi_2 Chi_6)
	1.88463091E-22	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3)
	5.58238543E-11	2	16	1000022	# BR(Ah_2 -> Chi_3 Chi_4)
	4.21645595E-11	2	16	1000023	# BR(Ah_2 -> Chi_3 Chi_5)
	2.05236791E-12	2	16	1000025	# BR(Ah_2 -> Chi_3 Chi_6)
	8.89094562E-07	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
	3.19799218E-04	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
	8.57561846E-01	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
	7.33718786E-10	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
	1.74289488E-04	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)
DECAY	1000017	6.78677347E-04	# Ah_3		
#	BR	NDA	ID1	ID2	
	7.05590724E-14	2	22	22	# BR(Ah_3 -> VP VP)
	2.91705650E-12	2	21	21	# BR(Ah_3 -> VG VG)
	1.07534938E-18	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
	6.45301594E-14	2	-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
	4.80381675E-14	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
	2.87211985E-13	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
	6.45301594E-14	2	-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
	2.87211985E-13	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
	1.43907341E-11	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
	5.60499203E-14	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
	3.99924097E-12	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
	7.16039507E-12	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
	2.68029363E-04	2	12	1000022	# BR(Ah_3 -> Chi_1 Chi_4)
	2.99969675E-04	2	12	1000023	# BR(Ah_3 -> Chi_1 Chi_5)
	2.52108382E-01	2	12	1000025	# BR(Ah_3 -> Chi_1 Chi_6)
	1.45193123E-11	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
	2.75870293E-11	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
	6.42182209E-04	2	14	1000022	# BR(Ah_3 -> Chi_2 Chi_4)
	7.18709282E-04	2	14	1000023	# BR(Ah_3 -> Chi_2 Chi_5)
	6.04036501E-01	2	14	1000025	# BR(Ah_3 -> Chi_2 Chi_6)
	7.30724494E-12	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)
	1.50549852E-04	2	16	1000022	# BR(Ah_3 -> Chi_3 Chi_4)
	1.68490455E-04	2	16	1000023	# BR(Ah_3 -> Chi_3 Chi_5)
	1.41607167E-01	2	16	1000025	# BR(Ah_3 -> Chi_3 Chi_6)
	1.16463133E-08	2	1000022	1000022	# BR(Ah_3 -> Chi_4 Chi_4)
	1.89255440E-09	2	1000022	1000023	# BR(Ah_3 -> Chi_4 Chi_5)
	3.44564119E-10	2	1000022	1000025	# BR(Ah_3 -> Chi_4 Chi_6)
	3.20069520E-12	2	1000023	1000023	# BR(Ah_3 -> Chi_5 Chi_5)
	5.12613691E-09	2	1000023	1000025	# BR(Ah_3 -> Chi_5 Chi_6)

8.86994849E-17	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
3.19043964E-14	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
8.55951475E-11	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
7.76829433E-19	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
1.84535488E-13	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)
DECAY 1000018	1.22898152E-01	# Ah_4		
# BR	NDA	ID1	ID2	
6.53263241E-10	2	22	22	# BR(Ah_4 -> VP VP)
1.30431489E-09	2	21	21	# BR(Ah_4 -> VG VG)
6.71551944E-15	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
2.47834672E-29	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
1.15247636E-30	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
2.47834672E-29	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
2.99996765E-10	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
4.60434447E-26	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
1.15247636E-30	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
4.60434447E-26	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
8.66697812E-08	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
3.30436101E-25	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2)
9.15253356E-27	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3)
1.07835936E-13	2	12	1000022	# BR(Ah_4 -> Chi_1 Chi_4)
3.64089135E-15	2	12	1000023	# BR(Ah_4 -> Chi_1 Chi_5)
5.83343508E-14	2	12	1000025	# BR(Ah_4 -> Chi_1 Chi_6)
1.94215414E-24	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2)
7.66374965E-25	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3)
6.05414863E-15	2	14	1000022	# BR(Ah_4 -> Chi_2 Chi_4)
1.66089702E-13	2	14	1000023	# BR(Ah_4 -> Chi_2 Chi_5)
8.92734384E-13	2	14	1000025	# BR(Ah_4 -> Chi_2 Chi_6)
2.09926279E-25	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3)
3.94871784E-14	2	16	1000022	# BR(Ah_4 -> Chi_3 Chi_4)
5.85619215E-13	2	16	1000023	# BR(Ah_4 -> Chi_3 Chi_5)
1.24448263E-12	2	16	1000025	# BR(Ah_4 -> Chi_3 Chi_6)
1.51564462E-01	2	1000022	1000022	# BR(Ah_4 -> Chi_4 Chi_4)
2.79485843E-01	2	1000022	1000023	# BR(Ah_4 -> Chi_4 Chi_5)
4.22223705E-01	2	1000022	1000025	# BR(Ah_4 -> Chi_4 Chi_6)
1.45878625E-01	2	1000023	1000023	# BR(Ah_4 -> Chi_5 Chi_5)
1.30557569E-04	2	1000023	1000025	# BR(Ah_4 -> Chi_5 Chi_6)
7.16182400E-04	2	1000025	1000025	# BR(Ah_4 -> Chi_6 Chi_6)
5.53925194E-13	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
1.99241842E-10	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
5.34635897E-07	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
6.27529248E-16	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
1.49070888E-10	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)
DECAY 1000019	1.25289516E-01	# Ah_5		
# BR	NDA	ID1	ID2	
6.45230889E-10	2	22	22	# BR(Ah_5 -> VP VP)
1.32163599E-09	2	21	21	# BR(Ah_5 -> VG VG)
6.56847135E-15	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
2.70362523E-30	2	-11	13	# BR(Ah_5 -> Cha_1^* Cha_2)
3.47671251E-26	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
2.70362523E-30	2	-13	11	# BR(Ah_5 -> Cha_2^* Cha_1)
2.93427811E-10	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
1.11004758E-25	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
3.47671251E-26	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
1.11004758E-25	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
8.47721610E-08	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)
7.12998239E-26	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1)
1.88505692E-24	2	12	14	# BR(Ah_5 -> Chi_1 Chi_2)
2.62228350E-24	2	12	16	# BR(Ah_5 -> Chi_1 Chi_3)
3.82499034E-15	2	12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
1.04206131E-13	2	12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
3.00613067E-14	2	12	1000025	# BR(Ah_5 -> Chi_1 Chi_6)
6.96933688E-24	2	14	14	# BR(Ah_5 -> Chi_2 Chi_2)
2.43643707E-23	2	14	16	# BR(Ah_5 -> Chi_2 Chi_3)
1.39057973E-13	2	14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
3.60825444E-14	2	14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
8.49155451E-14	2	14	1000025	# BR(Ah_5 -> Chi_2 Chi_6)
8.92874318E-24	2	16	16	# BR(Ah_5 -> Chi_3 Chi_3)
4.48157061E-13	2	16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
2.04718031E-16	2	16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
1.97221616E-12	2	16	1000025	# BR(Ah_5 -> Chi_3 Chi_6)
1.22932152E-01	2	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4)
2.55738667E-01	2	1000022	1000023	# BR(Ah_5 -> Chi_4 Chi_5)

1.69517862E-04	2	1000022	1000025	# BR(Ah_5 -> Chi_4 Chi_6)
1.14673659E-01	2	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5)
5.05542205E-01	2	1000023	1000025	# BR(Ah_5 -> Chi_5 Chi_6)
9.43189482E-04	2	1000025	1000025	# BR(Ah_5 -> Chi_6 Chi_6)
5.41796028E-13	2	-1	1	# BR(Ah_5 -> Fd_1^* Fd_1)
1.94879091E-10	2	-3	3	# BR(Ah_5 -> Fd_2^* Fd_2)
5.22931467E-07	2	-5	5	# BR(Ah_5 -> Fd_3^* Fd_3)
6.16184982E-16	2	-2	2	# BR(Ah_5 -> Fu_1^* Fu_1)
1.46376073E-10	2	-4	4	# BR(Ah_5 -> Fu_2^* Fu_2)
DECAY 2000018	6.30040029E-03	# Ah_6		
# BR	NDA	ID1	ID2	
3.11341103E-14	2	22	22	# BR(Ah_6 -> VP VP)
6.01326289E-12	2	21	21	# BR(Ah_6 -> VG VG)
5.88417192E-11	2	25	36	# BR(Ah_6 -> hh_1 Ah_2)
1.91969117E-20	2	25	1000017	# BR(Ah_6 -> hh_1 Ah_3)
1.92789233E-11	2	25	1000018	# BR(Ah_6 -> hh_1 Ah_4)
1.77258634E-11	2	25	1000019	# BR(Ah_6 -> hh_1 Ah_5)
1.15738909E-18	2	35	36	# BR(Ah_6 -> hh_2 Ah_2)
1.12866777E-28	2	35	1000017	# BR(Ah_6 -> hh_2 Ah_3)
2.02406690E-19	2	35	1000018	# BR(Ah_6 -> hh_2 Ah_4)
1.39334020E-19	2	35	1000019	# BR(Ah_6 -> hh_2 Ah_5)
1.58670833E-11	2	1000012	36	# BR(Ah_6 -> hh_3 Ah_2)
7.11772108E-21	2	1000012	1000017	# BR(Ah_6 -> hh_3 Ah_3)
1.58073055E-12	2	1000014	36	# BR(Ah_6 -> hh_4 Ah_2)
3.23792951E-22	2	1000014	1000017	# BR(Ah_6 -> hh_4 Ah_3)
1.50647326E-09	2	1000016	36	# BR(Ah_6 -> hh_5 Ah_2)
1.55756593E-19	2	1000016	1000017	# BR(Ah_6 -> hh_5 Ah_3)
6.06410151E-20	2	-11	11	# BR(Ah_6 -> Cha_1^* Cha_1)
5.09737655E-17	2	-11	13	# BR(Ah_6 -> Cha_1^* Cha_2)
1.45460402E-23	2	-11	-1000024	# BR(Ah_6 -> Cha_1^* Cha_4)
5.09737655E-17	2	-13	11	# BR(Ah_6 -> Cha_2^* Cha_1)
4.70417079E-15	2	-13	13	# BR(Ah_6 -> Cha_2^* Cha_2)
5.72608661E-15	2	-13	15	# BR(Ah_6 -> Cha_2^* Cha_3)
2.64219189E-01	2	-13	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4)
5.72608661E-15	2	-15	13	# BR(Ah_6 -> Cha_3^* Cha_2)
7.82819177E-13	2	-15	15	# BR(Ah_6 -> Cha_3^* Cha_3)
8.70508163E-24	2	-15	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4)
1.45460402E-23	2	1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1)
2.64219189E-01	2	1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2)
8.70508163E-24	2	1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3)
3.31606765E-15	2	12	12	# BR(Ah_6 -> Chi_1 Chi_1)
2.19308844E-13	2	12	14	# BR(Ah_6 -> Chi_1 Chi_2)
2.23978985E-13	2	12	16	# BR(Ah_6 -> Chi_1 Chi_3)
2.12920367E-05	2	12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
2.41953276E-05	2	12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
2.51398075E-02	2	12	1000025	# BR(Ah_6 -> Chi_1 Chi_6)
5.24574789E-03	2	12	1000039	# BR(Ah_6 -> Chi_1 Chi_7)
4.61301379E-04	2	12	1000045	# BR(Ah_6 -> Chi_1 Chi_8)
4.36137745E-13	2	14	14	# BR(Ah_6 -> Chi_2 Chi_2)
7.14336104E-13	2	14	16	# BR(Ah_6 -> Chi_2 Chi_3)
2.59013469E-05	2	14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)
2.94331435E-05	2	14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
3.05820850E-02	2	14	1000025	# BR(Ah_6 -> Chi_2 Chi_6)
6.38134989E-03	2	14	1000039	# BR(Ah_6 -> Chi_2 Chi_7)
5.61164121E-04	2	14	1000045	# BR(Ah_6 -> Chi_2 Chi_8)
1.00427938E-11	2	16	16	# BR(Ah_6 -> Chi_3 Chi_3)
2.77822653E-04	2	16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)
3.15705360E-04	2	16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
3.28029118E-01	2	16	1000025	# BR(Ah_6 -> Chi_3 Chi_6)
6.84475431E-02	2	16	1000039	# BR(Ah_6 -> Chi_3 Chi_7)
6.01915050E-03	2	16	1000045	# BR(Ah_6 -> Chi_3 Chi_8)
5.90561788E-11	2	1000022	1000022	# BR(Ah_6 -> Chi_4 Chi_4)
2.33507921E-10	2	1000022	1000023	# BR(Ah_6 -> Chi_4 Chi_5)
6.05823908E-11	2	1000022	1000025	# BR(Ah_6 -> Chi_4 Chi_6)
1.39523379E-11	2	1000022	1000039	# BR(Ah_6 -> Chi_4 Chi_7)
7.78181865E-11	2	1000023	1000023	# BR(Ah_6 -> Chi_5 Chi_5)
5.00664946E-11	2	1000023	1000025	# BR(Ah_6 -> Chi_5 Chi_6)
1.45097119E-11	2	1000023	1000039	# BR(Ah_6 -> Chi_5 Chi_7)
1.61525827E-10	2	1000025	1000025	# BR(Ah_6 -> Chi_6 Chi_6)
5.00193415E-18	2	-1	1	# BR(Ah_6 -> Fd_1^* Fd_1)
1.79914999E-15	2	-3	3	# BR(Ah_6 -> Fd_2^* Fd_2)
4.83026844E-12	2	-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
2.35608217E-19	2	-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)

5.59708440E-14	2		-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
7.65302046E-10	2		25	23	# BR(Ah_6 -> hh_1 VZ)
1.39684547E-19	2		35	23	# BR(Ah_6 -> hh_2 VZ)
5.46913417E-10	2		1000012	23	# BR(Ah_6 -> hh_3 VZ)
5.31964781E-10	2		1000014	23	# BR(Ah_6 -> hh_4 VZ)
9.44965780E-11	2		1000016	23	# BR(Ah_6 -> hh_5 VZ)
5.43166183E-22	2		37	24	# BR(Ah_6 -> Hpm_2 VWm^*)
5.43166183E-22	2		-37	-24	# BR(Ah_6 -> Hpm_2^* VWm)
DECAY	2000019	1.83628523E-02	# Ah_7		
#	BR	NDA	ID1	ID2	
6.36312510E-15	2		22	22	# BR(Ah_7 -> VP VP)
1.27142395E-12	2		21	21	# BR(Ah_7 -> VG VG)
2.03777804E-12	2		25	36	# BR(Ah_7 -> hh_1 Ah_2)
2.01247826E-21	2		25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
2.11852362E-12	2		25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
1.52440845E-13	2		25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
7.42642722E-22	2		25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
2.75902795E-19	2		35	36	# BR(Ah_7 -> hh_2 Ah_2)
4.01238943E-29	2		35	1000017	# BR(Ah_7 -> hh_2 Ah_3)
4.94201951E-19	2		35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
3.15843070E-20	2		35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
1.04058334E-30	2		35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
2.37279134E-12	2		1000012	36	# BR(Ah_7 -> hh_3 Ah_2)
6.05903194E-22	2		1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3)
3.09771201E-13	2		1000012	1000018	# BR(Ah_7 -> hh_3 Ah_4)
4.17258998E-14	2		1000012	1000019	# BR(Ah_7 -> hh_3 Ah_5)
3.63426481E-22	2		1000012	2000018	# BR(Ah_7 -> hh_3 Ah_6)
2.02351640E-12	2		1000014	36	# BR(Ah_7 -> hh_4 Ah_2)
1.01636346E-22	2		1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3)
2.79919254E-12	2		1000014	1000018	# BR(Ah_7 -> hh_4 Ah_4)
3.71562534E-14	2		1000014	1000019	# BR(Ah_7 -> hh_4 Ah_5)
1.96031674E-22	2		1000014	2000018	# BR(Ah_7 -> hh_4 Ah_6)
3.35969383E-10	2		1000016	36	# BR(Ah_7 -> hh_5 Ah_2)
6.88401857E-20	2		1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3)
6.67747135E-10	2		1000016	1000018	# BR(Ah_7 -> hh_5 Ah_4)
4.88278558E-11	2		1000016	1000019	# BR(Ah_7 -> hh_5 Ah_5)
3.21004627E-23	2		1000016	2000018	# BR(Ah_7 -> hh_5 Ah_6)
8.51719987E-22	2		2000012	36	# BR(Ah_7 -> hh_6 Ah_2)
2.35461136E-21	2		2000012	1000018	# BR(Ah_7 -> hh_6 Ah_4)
2.63631574E-23	2		2000012	1000019	# BR(Ah_7 -> hh_6 Ah_5)
1.39977596E-20	2		-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)
6.32113040E-18	2		-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
3.17452143E-15	2		-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
2.85418542E-01	2		-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
6.32113040E-18	2		-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
3.54011076E-16	2		-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
5.12726487E-24	2		-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
3.17452143E-15	2		-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
1.02305619E-13	2		-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
6.83996748E-25	2		-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
2.85418542E-01	2		1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1)
5.12726487E-24	2		1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2)
6.83996748E-25	2		1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3)
4.72282627E-11	2		1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
1.92453442E-14	2		12	12	# BR(Ah_7 -> Chi_1 Chi_1)
9.08823224E-13	2		12	14	# BR(Ah_7 -> Chi_1 Chi_2)
2.25382415E-12	2		12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.29678833E-04	2		12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
1.47697332E-04	2		12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
1.58092766E-01	2		12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
1.15885196E-01	2		12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
1.83534675E-02	2		12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
9.61041591E-13	2		14	14	# BR(Ah_7 -> Chi_2 Chi_2)
8.92925891E-13	2		14	16	# BR(Ah_7 -> Chi_2 Chi_3)
5.98949829E-05	2		14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
6.82172175E-05	2		14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
7.30185741E-02	2		14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
5.35240924E-02	2		14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
8.47694717E-03	2		14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
2.14695217E-14	2		16	16	# BR(Ah_7 -> Chi_3 Chi_3)
6.23282688E-07	2		16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
7.09886011E-07	2		16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
7.59850177E-04	2		16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)

5.56985556E-04	2		16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
8.82133058E-05	2		16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
1.67064880E-11	2	1000022		1000022	# BR(Ah_7 -> Chi_4 Chi_4)
2.85401298E-12	2	1000022		1000023	# BR(Ah_7 -> Chi_4 Chi_5)
1.09095493E-12	2	1000022		1000025	# BR(Ah_7 -> Chi_4 Chi_6)
9.50251700E-12	2	1000022		1000039	# BR(Ah_7 -> Chi_4 Chi_7)
6.30563365E-12	2	1000022		1000045	# BR(Ah_7 -> Chi_4 Chi_8)
4.22301859E-14	2	1000023		1000023	# BR(Ah_7 -> Chi_5 Chi_5)
8.10276042E-15	2	1000023		1000025	# BR(Ah_7 -> Chi_5 Chi_6)
6.82454428E-13	2	1000023		1000039	# BR(Ah_7 -> Chi_5 Chi_7)
4.23964393E-13	2	1000023		1000045	# BR(Ah_7 -> Chi_5 Chi_8)
3.31578769E-11	2	1000025		1000025	# BR(Ah_7 -> Chi_6 Chi_6)
3.54899693E-13	2	1000025		1000039	# BR(Ah_7 -> Chi_6 Chi_7)
4.68594696E-16	2	1000025		1000045	# BR(Ah_7 -> Chi_6 Chi_8)
4.90150656E-11	2	1000039		1000039	# BR(Ah_7 -> Chi_7 Chi_7)
6.53658525E-19	2		-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
2.35114990E-16	2		-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
6.31287102E-13	2		-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
1.66974654E-20	2		-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
3.96665095E-15	2		-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
2.20781554E-10	2		-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
2.29583361E-10	2		25	23	# BR(Ah_7 -> hh_1 VZ)
2.43128507E-19	2		35	23	# BR(Ah_7 -> hh_2 VZ)
5.60660026E-10	2	1000012		23	# BR(Ah_7 -> hh_3 VZ)
3.12250776E-11	2	1000014		23	# BR(Ah_7 -> hh_4 VZ)
1.55093498E-11	2	1000016		23	# BR(Ah_7 -> hh_5 VZ)
1.40566596E-24	2	2000012		23	# BR(Ah_7 -> hh_6 VZ)
1.60413938E-23	2		37	24	# BR(Ah_7 -> Hpm_2 VWm^*)
1.60413938E-23	2		-37	-24	# BR(Ah_7 -> Hpm_2^* VWm)
1.32386312E-23	2	1000011		24	# BR(Ah_7 -> Hpm_3 VWm^*)
1.32386312E-23	2	-1000011		-24	# BR(Ah_7 -> Hpm_3^* VWm)
DECAY	2000020	1.65226367E+01	# Ah_8		
#	BR	NDA	ID1	ID2	
2.46108049E-06	2		22	22	# BR(Ah_8 -> VP VP)
4.16959702E-04	2		21	21	# BR(Ah_8 -> VG VG)
1.04695436E-02	2		25	36	# BR(Ah_8 -> hh_1 Ah_2)
2.62721336E-14	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
1.31747782E-06	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
1.31056229E-06	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
3.36647088E-13	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
3.71302036E-14	2		25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
1.71384730E-10	2		35	36	# BR(Ah_8 -> hh_2 Ah_2)
7.85042950E-21	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
6.78607395E-14	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
1.05296445E-12	2		35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
1.85384164E-22	2		35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
1.94008055E-24	2		35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
7.72859273E-04	2	1000012		36	# BR(Ah_8 -> hh_3 Ah_2)
8.15621978E-14	2	1000012		1000017	# BR(Ah_8 -> hh_3 Ah_3)
1.12448938E-03	2	1000012		1000018	# BR(Ah_8 -> hh_3 Ah_4)
3.96415119E-07	2	1000012		1000019	# BR(Ah_8 -> hh_3 Ah_5)
5.61656142E-15	2	1000012		2000018	# BR(Ah_8 -> hh_3 Ah_6)
8.03044172E-15	2	1000012		2000019	# BR(Ah_8 -> hh_3 Ah_7)
1.03045752E-03	2	1000014		36	# BR(Ah_8 -> hh_4 Ah_2)
3.54507865E-13	2	1000014		1000017	# BR(Ah_8 -> hh_4 Ah_3)
1.64989941E-06	2	1000014		1000018	# BR(Ah_8 -> hh_4 Ah_4)
1.16822762E-03	2	1000014		1000019	# BR(Ah_8 -> hh_4 Ah_5)
4.44925744E-17	2	1000014		2000018	# BR(Ah_8 -> hh_4 Ah_6)
1.70391887E-16	2	1000014		2000019	# BR(Ah_8 -> hh_4 Ah_7)
2.02958629E-01	2	1000016		36	# BR(Ah_8 -> hh_5 Ah_2)
6.68633551E-12	2	1000016		1000017	# BR(Ah_8 -> hh_5 Ah_3)
3.52611443E-05	2	1000016		1000018	# BR(Ah_8 -> hh_5 Ah_4)
4.12878951E-05	2	1000016		1000019	# BR(Ah_8 -> hh_5 Ah_5)
3.34027595E-13	2	1000016		2000018	# BR(Ah_8 -> hh_5 Ah_6)
2.26769973E-14	2	1000016		2000019	# BR(Ah_8 -> hh_5 Ah_7)
5.35161509E-13	2	2000012		36	# BR(Ah_8 -> hh_6 Ah_2)
1.56822575E-23	2	2000012		1000017	# BR(Ah_8 -> hh_6 Ah_3)
2.40795130E-14	2	2000012		1000018	# BR(Ah_8 -> hh_6 Ah_4)
2.76669865E-14	2	2000012		1000019	# BR(Ah_8 -> hh_6 Ah_5)
2.18453316E-24	2	2000012		2000018	# BR(Ah_8 -> hh_6 Ah_6)
6.80830347E-15	2	2000014		36	# BR(Ah_8 -> hh_7 Ah_2)
2.70490327E-26	2	2000014		1000017	# BR(Ah_8 -> hh_7 Ah_3)
1.77394259E-14	2	2000014		1000018	# BR(Ah_8 -> hh_7 Ah_4)

1.36776263E-15	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
7.08836395E-11	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
1.62302115E-30	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
8.73457728E-28	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
1.93586638E-16	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
1.62302115E-30	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
3.16652896E-06	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
3.86996442E-27	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
7.73644451E-16	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
8.73457728E-28	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
3.86996442E-27	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
9.15112037E-04	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
7.53998576E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
1.93586638E-16	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
7.73644451E-16	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
7.53998576E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
3.06292173E-02	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
2.25252183E-28	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
8.99469881E-29	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
1.71028284E-28	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
4.27156041E-17	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
9.04533931E-17	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
4.66444129E-21	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
5.31274293E-18	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
1.71161680E-17	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
6.14719732E-30	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
7.92444306E-27	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
2.12690551E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
1.29623843E-17	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
7.05587073E-15	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
1.52612622E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
4.30418528E-17	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
1.18885706E-28	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
2.24334136E-16	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
4.33164746E-16	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
1.72661856E-14	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
3.65081653E-15	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
4.82875005E-17	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
1.13713234E-03	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
4.02366227E-07	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
3.87412887E-04	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
4.78560574E-08	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
1.50579641E-05	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
1.18775828E-03	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
4.37487454E-04	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
5.70641271E-08	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
1.68489357E-05	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
2.50493153E-01	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)
1.22323669E-04	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)
1.41327995E-02	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
6.28853809E-04	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
4.60256639E-02	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)
1.23042147E-01	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
5.84679030E-09	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
2.10303693E-06	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
5.64683240E-03	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
7.49385065E-12	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
1.78024120E-06	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
1.25631323E-01	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
1.78832876E-01	2	25	23	# BR(Ah_8 -> hh_1 VZ)
8.00212394E-12	2	35	23	# BR(Ah_8 -> hh_2 VZ)
1.83280505E-06	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
3.65864255E-06	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
2.68009473E-03	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
1.88661028E-13	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
4.40073484E-15	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
9.36178881E-27	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3)
7.75866722E-27	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4)
9.36178881E-27	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2)
7.75866722E-27	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2)
6.01986814E-16	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)
6.01986814E-16	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)
2.50576104E-16	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)

	2.50576104E-16	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)
	9.76536430E-16	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)
	9.76536430E-16	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)
DECAY	37	8.11060094E-05	# Hpm_2		
#	BR	NDA	ID1	ID2	
	6.68325758E-12	2	12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
	4.64285136E-11	2	12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
	7.70992424E-11	2	12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
	1.60126807E-11	2	14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
	1.11234535E-10	2	14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
	1.36687394E-10	2	14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
	3.75392924E-12	2	16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
	2.61355512E-11	2	16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
	2.12411702E-11	2	16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
	2.94039800E-21	2	1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)
	6.35500643E-21	2	1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)
	7.13365540E-04	2	1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)
	1.70759900E-22	2	1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)
	6.10664841E-21	2	1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)
	8.17055209E-04	2	1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)
	6.57641061E-23	2	1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1)
	2.29165380E-22	2	1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2)
	9.98469579E-01	2	1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3)
	1.29294858E-16	2	-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)
	2.13329287E-15	2	-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)
	1.32024808E-15	2	-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)
	2.34816058E-13	2	-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)
	4.42316560E-12	2	-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)
	1.98741717E-13	2	-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)
DECAY	1000011	6.86198064E-04	# Hpm_3		
#	BR	NDA	ID1	ID2	
	5.31276694E-21	2	37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)
	1.34154391E-10	2	37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3)
	9.73125891E-09	2	36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
	1.32395350E-18	2	1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm)
	8.03984308E-09	2	1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm)
	7.50586788E-09	2	1000019	-24	# BR(Hpm_3 -> Ah_5 Vwm)
	3.90635820E-13	2	12	11	# BR(Hpm_3 -> Chi_1 Cha_1)
	3.16576674E-12	2	12	13	# BR(Hpm_3 -> Chi_1 Cha_2)
	5.46495894E-12	2	12	15	# BR(Hpm_3 -> Chi_1 Cha_3)
	4.80808958E-02	2	12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)
	4.75200730E-13	2	14	11	# BR(Hpm_3 -> Chi_2 Cha_1)
	1.02388571E-11	2	14	13	# BR(Hpm_3 -> Chi_2 Cha_2)
	7.52999062E-12	2	14	15	# BR(Hpm_3 -> Chi_2 Cha_3)
	5.84894710E-02	2	14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)
	5.09709043E-12	2	16	11	# BR(Hpm_3 -> Chi_3 Cha_1)
	1.54078967E-11	2	16	13	# BR(Hpm_3 -> Chi_3 Cha_2)
	6.19707078E-11	2	16	15	# BR(Hpm_3 -> Chi_3 Cha_3)
	6.27368920E-01	2	16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)
	3.87589618E-22	2	1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1)
	1.81434622E-04	2	1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2)
	6.13467277E-23	2	1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3)
	1.05695326E-10	2	1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4)
	5.00867186E-23	2	1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1)
	2.05768190E-04	2	1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2)
	4.57336849E-24	2	1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3)
	1.72743778E-10	2	1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4)
	1.07559502E-23	2	1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1)
	2.09375924E-01	2	1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2)
	9.35047470E-23	2	1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3)
	3.95877216E-09	2	1000025	-1000024	# BR(Hpm_3 -> Chi_6 Cha_4)
	9.49651653E-26	2	1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1)
	4.46336297E-02	2	1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2)
	7.99351998E-24	2	1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3)
	9.52919271E-25	2	1000045	11	# BR(Hpm_3 -> Chi_8 Cha_1)
	1.16638827E-02	2	1000045	13	# BR(Hpm_3 -> Chi_8 Cha_2)
	1.10079977E-23	2	1000045	15	# BR(Hpm_3 -> Chi_8 Cha_3)
	1.86038008E-17	2	-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1)
	3.13267172E-16	2	-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2)
	1.94135438E-16	2	-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3)
	2.96108094E-14	2	-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1)
	5.58594153E-13	2	-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2)
	2.90599005E-14	2	-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3)

5.65162092E-13	2	-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1)
2.67277874E-11	2	-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2)
1.59571243E-08	2	-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3)
1.16164166E-19	2	37	25	# BR(Hpm_3 -> Hpm_2 hh_1)
1.34154399E-10	2	37	35	# BR(Hpm_3 -> Hpm_2 hh_2)
1.07402008E-23	2	37	1000012	# BR(Hpm_3 -> Hpm_2 hh_3)
1.46298843E-19	2	37	1000014	# BR(Hpm_3 -> Hpm_2 hh_4)
1.61660053E-20	2	37	1000016	# BR(Hpm_3 -> Hpm_2 hh_5)
1.03829525E-08	2	25	-24	# BR(Hpm_3 -> hh_1 Vwm)
2.13023436E-18	2	35	-24	# BR(Hpm_3 -> hh_2 Vwm)
8.52996698E-09	2	1000012	-24	# BR(Hpm_3 -> hh_3 Vwm)
8.40760872E-09	2	1000014	-24	# BR(Hpm_3 -> hh_4 Vwm)
1.26707199E-09	2	1000016	-24	# BR(Hpm_3 -> hh_5 Vwm)
1.18152472E-13	2	-24	23	# BR(Hpm_3 -> Vwm VZ)
DECAY 2000011	1.87066011E-03	# Hpm_4		
# BR	NDA	ID1	ID2	
7.88110919E-21	2	37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
1.66155850E-11	2	37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
2.89216351E-20	2	37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
4.29647453E-22	2	37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
1.56168295E-21	2	1000011	36	# BR(Hpm_4 -> Hpm_3 Ah_2)
1.17449674E-20	2	1000011	1000018	# BR(Hpm_4 -> Hpm_3 Ah_4)
1.36908360E-23	2	1000011	1000019	# BR(Hpm_4 -> Hpm_3 Ah_5)
2.65374376E-09	2	36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
5.38029290E-19	2	1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm)
5.80877914E-09	2	1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm)
4.23919047E-10	2	1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm)
1.11009675E-21	2	2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm)
2.67102410E-12	2	12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
1.63557095E-11	2	12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
2.85526326E-11	2	12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
5.21689816E-01	2	12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
9.34250029E-17	2	14	11	# BR(Hpm_4 -> Chi_2 Cha_1)
7.55431780E-12	2	14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
1.34119175E-11	2	14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
2.40953761E-01	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
2.72144976E-12	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
7.99682583E-14	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2)
2.01807689E-13	2	16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
2.50742719E-03	2	16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)
1.09718971E-04	2	1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1)
4.08570735E-23	2	1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2)
8.21466791E-24	2	1000022	15	# BR(Hpm_4 -> Chi_4 Cha_3)
8.73731465E-11	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)
1.24679518E-04	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1)
8.97193145E-23	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2)
7.68514470E-25	2	1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3)
8.08957655E-12	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)
1.30103777E-01	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1)
4.62503473E-24	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2)
8.75885850E-24	2	1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3)
6.80509811E-10	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)
7.55877247E-02	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1)
7.77532627E-27	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2)
1.04315171E-24	2	1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3)
2.30797022E-10	2	1000039	-1000024	# BR(Hpm_4 -> Chi_7 Cha_4)
2.89230747E-02	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1)
3.47666883E-24	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2)
6.92673804E-24	2	1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3)
2.82526929E-11	2	1000045	-1000024	# BR(Hpm_4 -> Chi_8 Cha_4)
2.70082143E-18	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)
4.85646407E-17	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)
3.01109477E-17	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)
2.25614625E-15	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)
4.30206668E-14	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)
4.42919531E-15	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)
8.64630100E-14	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)
4.08903190E-12	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)
2.44302249E-09	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)
2.12132178E-20	2	37	25	# BR(Hpm_4 -> Hpm_2 hh_1)
1.66155849E-11	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2)
5.28578880E-20	2	37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)
3.04396099E-20	2	37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4)

4.56393700E-21	2	37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5)
1.04502650E-20	2	1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1)
5.65323202E-30	2	1000011	35	# BR(Hpm_4 -> Hpm_3 hh_2)
3.73542071E-21	2	1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3)
2.33227941E-21	2	1000011	1000014	# BR(Hpm_4 -> Hpm_3 hh_4)
5.23937872E-22	2	1000011	1000016	# BR(Hpm_4 -> Hpm_3 hh_5)
2.65748891E-09	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm)
2.76435644E-18	2	35	-24	# BR(Hpm_4 -> hh_2 Vwm)
5.85079088E-09	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm)
3.30885915E-10	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm)
1.02824968E-10	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm)
5.74512534E-23	2	2000012	-24	# BR(Hpm_4 -> hh_6 Vwm)
3.43474174E-29	2	1000011	23	# BR(Hpm_4 -> Hpm_3 VZ)
6.90968058E-14	2	-24	23	# BR(Hpm_4 -> Vwm VZ)
DECAY 1000013	1.38040261E+01	# Hpm_5		
# BR	NDA	ID1	ID2	
8.37513496E-13	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
4.24951335E-04	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
2.55589864E-15	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
2.45859636E-14	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
2.08289538E-24	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)
7.16069001E-26	2	37	2000019	# BR(Hpm_5 -> Hpm_2 Ah_7)
3.18490625E-13	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2)
5.10045876E-24	2	1000011	1000017	# BR(Hpm_5 -> Hpm_3 Ah_3)
2.29357136E-14	2	1000011	1000018	# BR(Hpm_5 -> Hpm_3 Ah_4)
2.50725417E-14	2	1000011	1000019	# BR(Hpm_5 -> Hpm_3 Ah_5)
2.24368551E-04	2	1000011	2000018	# BR(Hpm_5 -> Hpm_3 Ah_6)
7.51652249E-15	2	2000011	36	# BR(Hpm_5 -> Hpm_4 Ah_2)
8.18301381E-26	2	2000011	1000017	# BR(Hpm_5 -> Hpm_4 Ah_3)
1.68856112E-14	2	2000011	1000018	# BR(Hpm_5 -> Hpm_4 Ah_4)
1.29711568E-15	2	2000011	1000019	# BR(Hpm_5 -> Hpm_4 Ah_5)
1.90401916E-01	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm)
6.57327188E-12	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm)
1.29981173E-05	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm)
1.29137743E-05	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm)
2.88796136E-13	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm)
9.75370007E-15	2	2000019	-24	# BR(Hpm_5 -> Ah_7 Vwm)
5.83236097E-11	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1)
2.50339314E-07	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
2.79043303E-04	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
3.22412083E-17	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
2.69380246E-11	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
3.04532888E-07	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
6.68570950E-04	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
2.81326738E-15	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
2.80324054E-13	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
3.26647627E-06	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2)
1.56736287E-04	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
6.27695815E-15	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
1.61635197E-15	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1)
3.43442348E-15	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2)
1.89992943E-17	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3)
2.86123694E-04	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4)
1.02755093E-16	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1)
3.51076352E-15	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2)
1.43764958E-16	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3)
3.21903090E-04	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4)
2.16440302E-17	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1)
5.49848506E-17	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2)
3.32658026E-15	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3)
2.94209929E-01	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4)
3.06285651E-16	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1)
2.22250631E-15	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2)
4.81857299E-15	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3)
9.83102712E-02	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4)
1.75331691E-16	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1)
1.15826391E-15	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2)
2.59465881E-15	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3)
7.41248189E-02	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4)
6.07977285E-09	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)
1.16845448E-07	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)
7.24672482E-08	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)
9.91211118E-08	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)

4.02450533E-06	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)
1.04814547E-05	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)
4.56966449E-06	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)
2.16112778E-04	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)
1.33943538E-01	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)
1.42332598E-12	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1)
4.24951333E-04	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2)
7.52938813E-14	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)
4.70349217E-13	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4)
3.91572471E-13	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5)
1.45673685E-24	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6)
6.20824940E-26	2	37	2000014	# BR(Hpm_5 -> Hpm_2 hh_7)
6.95425114E-13	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1)
4.58399254E-23	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2)
2.11286499E-14	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3)
2.21858424E-14	2	1000011	1000014	# BR(Hpm_5 -> Hpm_3 hh_4)
7.76457871E-16	2	1000011	1000016	# BR(Hpm_5 -> Hpm_3 hh_5)
2.24368552E-04	2	1000011	2000012	# BR(Hpm_5 -> Hpm_3 hh_6)
7.20440311E-14	2	2000011	25	# BR(Hpm_5 -> Hpm_4 hh_1)
1.52684031E-23	2	2000011	35	# BR(Hpm_5 -> Hpm_4 hh_2)
1.77255623E-14	2	2000011	1000012	# BR(Hpm_5 -> Hpm_4 hh_3)
1.03860324E-15	2	2000011	1000014	# BR(Hpm_5 -> Hpm_4 hh_4)
3.68127521E-19	2	2000011	1000016	# BR(Hpm_5 -> Hpm_4 hh_5)
2.02724216E-01	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm)
8.84045850E-12	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm)
2.03427907E-06	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm)
4.07300162E-06	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm)
3.00294641E-03	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm)
2.21592001E-13	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm)
8.81987577E-15	2	2000014	-24	# BR(Hpm_5 -> hh_7 Vwm)
1.81351856E-21	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ)
2.32139066E-29	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ)
2.43597332E-08	2	-24	23	# BR(Hpm_5 -> Vwm VZ)
DECAY 2000013	3.37672163E-01	# Hpm_6		
# BR	NDA	ID1	ID2	
2.62567800E-04	2	37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)
5.77699425E-15	2	37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
1.22131526E-08	2	37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
1.20514473E-08	2	37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
6.96947879E-15	2	37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
2.51509841E-15	2	37	2000019	# BR(Hpm_6 -> Hpm_2 Ah_7)
2.72149774E-02	2	37	2000020	# BR(Hpm_6 -> Hpm_2 Ah_8)
4.33311243E-26	2	1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2)
3.45952729E-15	2	1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3)
2.36433665E-26	2	1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4)
3.76391885E-25	2	1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5)
2.85370025E-18	2	1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6)
5.82636112E-26	2	1000011	2000020	# BR(Hpm_6 -> Hpm_3 Ah_8)
2.89666834E-26	2	2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2)
1.27353263E-15	2	2000011	1000017	# BR(Hpm_6 -> Hpm_4 Ah_3)
1.37472292E-26	2	2000011	1000018	# BR(Hpm_6 -> Hpm_4 Ah_4)
1.35723493E-25	2	2000011	1000019	# BR(Hpm_6 -> Hpm_4 Ah_5)
1.78990345E-18	2	2000011	2000019	# BR(Hpm_6 -> Hpm_4 Ah_7)
1.16427789E-12	2	1000013	36	# BR(Hpm_6 -> Hpm_5 Ah_2)
2.87110212E-02	2	1000013	1000017	# BR(Hpm_6 -> Hpm_5 Ah_3)
2.26476697E-13	2	1000013	1000018	# BR(Hpm_6 -> Hpm_5 Ah_4)
2.96674219E-12	2	1000013	1000019	# BR(Hpm_6 -> Hpm_5 Ah_5)
1.04306749E-26	2	1000013	2000018	# BR(Hpm_6 -> Hpm_5 Ah_6)
2.70246001E-16	2	36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
7.22448970E-04	2	1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm)
5.91472653E-15	2	1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm)
7.55917057E-14	2	1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm)
1.17904301E-25	2	2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm)
2.50689506E-26	2	2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm)
1.19698940E-13	2	2000020	-24	# BR(Hpm_6 -> Ah_8 Vwm)
5.38755301E-16	2	12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
2.40231840E-15	2	12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
5.45486145E-15	2	12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
1.95280027E-02	2	12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
1.29082526E-15	2	14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
5.75579811E-15	2	14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
1.07774398E-13	2	14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
4.67879185E-02	2	14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)

3.02614341E-16	2	16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
1.34949047E-15	2	16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
2.32175239E-13	2	16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
1.09687156E-02	2	16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
6.38095833E-29	2	1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1)
1.09527645E-29	2	1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2)
1.45512867E-05	2	1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3)
1.22590250E-16	2	1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
6.17093848E-29	2	1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1)
4.80975160E-28	2	1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2)
1.66423683E-05	2	1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3)
1.19782789E-15	2	1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
2.29589357E-27	2	1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1)
1.11284982E-26	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)
1.89927047E-02	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)
1.59908661E-14	2	1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)
7.07793295E-26	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)
3.20876264E-25	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)
5.94069034E-02	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)
3.96503837E-15	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)
6.37650222E-26	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)
2.87956550E-25	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)
3.76688671E-02	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)
3.81578436E-15	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)
2.98689940E-26	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)
6.91172319E-01	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)
2.49451986E-22	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)
4.79735660E-21	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)
2.97549948E-21	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)
1.94281234E-21	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)
1.25532842E-19	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)
4.30299427E-19	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)
9.97904179E-20	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)
4.71946008E-18	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)
3.05275830E-15	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)
3.51776878E-04	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1)
4.47761204E-13	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2)
2.56208443E-06	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)
3.31988703E-06	2	37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4)
5.62560408E-04	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5)
1.06058676E-14	2	37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6)
2.67047996E-15	2	37	2000014	# BR(Hpm_6 -> Hpm_2 hh_7)
2.74698208E-02	2	37	2000016	# BR(Hpm_6 -> Hpm_2 hh_8)
7.67211497E-28	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1)
3.45952729E-15	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2)
6.99503447E-25	2	1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3)
4.42520765E-24	2	1000011	1000014	# BR(Hpm_6 -> Hpm_3 hh_4)
1.98199318E-24	2	1000011	1000016	# BR(Hpm_6 -> Hpm_3 hh_5)
2.85370025E-18	2	1000011	2000012	# BR(Hpm_6 -> Hpm_3 hh_6)
5.89457744E-26	2	1000011	2000016	# BR(Hpm_6 -> Hpm_3 hh_8)
2.85821700E-27	2	2000011	25	# BR(Hpm_6 -> Hpm_4 hh_1)
1.27353263E-15	2	2000011	35	# BR(Hpm_6 -> Hpm_4 hh_2)
2.35506221E-25	2	2000011	1000012	# BR(Hpm_6 -> Hpm_4 hh_3)
1.64229833E-24	2	2000011	1000014	# BR(Hpm_6 -> Hpm_4 hh_4)
7.67563721E-25	2	2000011	1000016	# BR(Hpm_6 -> Hpm_4 hh_5)
1.78990345E-18	2	2000011	2000014	# BR(Hpm_6 -> Hpm_4 hh_7)
4.35246116E-13	2	1000013	25	# BR(Hpm_6 -> Hpm_5 hh_1)
2.87110211E-02	2	1000013	35	# BR(Hpm_6 -> Hpm_5 hh_2)
5.66721948E-12	2	1000013	1000012	# BR(Hpm_6 -> Hpm_5 hh_3)
3.72387155E-11	2	1000013	1000014	# BR(Hpm_6 -> Hpm_5 hh_4)
1.75794994E-11	2	1000013	1000016	# BR(Hpm_6 -> Hpm_5 hh_5)
4.70970748E-26	2	1000013	2000012	# BR(Hpm_6 -> Hpm_5 hh_6)
4.25628767E-15	2	25	-24	# BR(Hpm_6 -> hh_1 VWm)
7.22448969E-04	2	35	-24	# BR(Hpm_6 -> hh_2 VWm)
1.45234680E-13	2	1000012	-24	# BR(Hpm_6 -> hh_3 VWm)
9.44958528E-13	2	1000014	-24	# BR(Hpm_6 -> hh_4 VWm)
4.99201391E-13	2	1000016	-24	# BR(Hpm_6 -> hh_5 VWm)
1.81981726E-25	2	2000012	-24	# BR(Hpm_6 -> hh_6 VWm)
2.62887725E-26	2	2000014	-24	# BR(Hpm_6 -> hh_7 VWm)
1.21767473E-13	2	2000016	-24	# BR(Hpm_6 -> hh_8 VWm)
7.08825288E-04	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)
2.78093202E-26	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ)
6.60237163E-27	2	2000011	23	# BR(Hpm_6 -> Hpm_4 VZ)

	1.39432711E-13	2	1000013	23	# BR(Hpm_6 -> Hpm_5 VZ)
	8.87263163E-20	2	-24	23	# BR(Hpm_6 -> Vwm VZ)
DECAY	1000015	2.47913344E-01	# Hpm_7		
#	BR	NDA	ID1	ID2	
	3.56141162E-29	2	37	36	# BR(Hpm_7 -> Hpm_2 Ah_2)
	2.59747469E-21	2	37	1000017	# BR(Hpm_7 -> Hpm_2 Ah_3)
	1.09752151E-28	2	37	1000018	# BR(Hpm_7 -> Hpm_2 Ah_4)
	9.53699890E-29	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
	2.16965754E-17	2	37	2000018	# BR(Hpm_7 -> Hpm_2 Ah_6)
	7.77350434E-30	2	37	2000020	# BR(Hpm_7 -> Hpm_2 Ah_8)
	3.05335396E-06	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2)
	1.92197431E-16	2	1000011	1000017	# BR(Hpm_7 -> Hpm_3 Ah_3)
	2.73340446E-10	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4)
	2.72626372E-10	2	1000011	1000019	# BR(Hpm_7 -> Hpm_3 Ah_5)
	6.41725924E-18	2	1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6)
	3.19899024E-18	2	1000011	2000019	# BR(Hpm_7 -> Hpm_3 Ah_7)
	4.40123198E-07	2	1000011	2000020	# BR(Hpm_7 -> Hpm_3 Ah_8)
	2.20068357E-28	2	2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2)
	1.01944809E-29	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4)
	4.73005402E-30	2	2000011	1000019	# BR(Hpm_7 -> Hpm_4 Ah_5)
	1.26255701E-18	2	2000011	2000018	# BR(Hpm_7 -> Hpm_4 Ah_6)
	1.42705096E-21	2	2000011	2000019	# BR(Hpm_7 -> Hpm_4 Ah_7)
	3.42566821E-18	2	1000013	36	# BR(Hpm_7 -> Hpm_5 Ah_2)
	5.09818170E-28	2	1000013	1000017	# BR(Hpm_7 -> Hpm_5 Ah_3)
	2.22223785E-18	2	1000013	1000018	# BR(Hpm_7 -> Hpm_5 Ah_4)
	2.06091601E-18	2	1000013	1000019	# BR(Hpm_7 -> Hpm_5 Ah_5)
	1.92682757E-07	2	1000013	2000018	# BR(Hpm_7 -> Hpm_5 Ah_6)
	1.58903452E-17	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
	2.28710181E-27	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
	2.15863210E-17	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
	2.03166607E-17	2	1000019	-24	# BR(Hpm_7 -> Ah_5 Vwm)
	4.30162278E-06	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
	2.11604623E-28	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm)
	7.19754183E-19	2	2000020	-24	# BR(Hpm_7 -> Ah_8 Vwm)
	6.46634210E-19	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
	1.32962559E-15	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
	4.12327175E-19	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
	2.38254628E-05	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
	7.86617892E-19	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
	1.42041259E-13	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
	5.01594906E-19	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
	2.89832103E-05	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
	8.43740948E-18	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
	3.04741277E-13	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
	5.38005197E-18	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
	3.10879293E-04	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
	3.47220013E-23	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
	1.96273821E-05	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
	3.86563979E-30	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3)
	1.89357243E-16	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
	3.96189259E-23	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
	2.23956584E-05	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
	4.62480873E-30	2	1000023	15	# BR(Hpm_7 -> Chi_5 Cha_3)
	1.86131928E-16	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
	4.33615531E-20	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
	2.45148949E-02	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
	1.09528739E-27	2	1000025	15	# BR(Hpm_7 -> Chi_6 Cha_3)
	2.66290240E-18	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
	5.06716650E-20	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
	2.88225890E-02	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
	2.57391149E-27	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3)
	5.12675261E-19	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
	6.44109885E-21	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
	3.80606511E-03	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
	1.37889548E-27	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3)
	9.54245666E-19	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
	1.66726231E-18	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
	9.42426269E-01	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
	4.08641561E-26	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3)
	2.52812359E-28	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1)
	2.47305464E-27	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
	1.52974889E-27	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
	1.58340319E-24	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)

2.96044812E-23	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
2.74097251E-25	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
8.18919630E-23	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
3.87285531E-21	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
2.31160571E-18	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
3.49241067E-29	2	37	25	# BR(Hpm_7 -> Hpm_2 hh_1)
2.59747466E-21	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2)
7.36824555E-29	2	37	1000012	# BR(Hpm_7 -> Hpm_2 hh_3)
1.28506883E-28	2	37	1000014	# BR(Hpm_7 -> Hpm_2 hh_4)
2.16965754E-17	2	37	2000012	# BR(Hpm_7 -> Hpm_2 hh_6)
7.59353927E-30	2	37	2000016	# BR(Hpm_7 -> Hpm_2 hh_8)
3.49628528E-06	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
2.41083526E-15	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2)
1.65216203E-08	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)
2.15730672E-08	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)
3.80618703E-06	2	1000011	1000016	# BR(Hpm_7 -> Hpm_3 hh_5)
1.52627489E-17	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6)
3.83926740E-18	2	1000011	2000014	# BR(Hpm_7 -> Hpm_3 hh_7)
4.32540877E-07	2	1000011	2000016	# BR(Hpm_7 -> Hpm_3 hh_8)
2.67253083E-28	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1)
7.29312797E-30	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3)
1.76164640E-30	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4)
2.36679942E-28	2	2000011	1000016	# BR(Hpm_7 -> Hpm_4 hh_5)
1.26255701E-18	2	2000011	2000012	# BR(Hpm_7 -> Hpm_4 hh_6)
1.42705096E-21	2	2000011	2000014	# BR(Hpm_7 -> Hpm_4 hh_7)
6.20085500E-18	2	1000013	25	# BR(Hpm_7 -> Hpm_5 hh_1)
3.94191281E-29	2	1000013	35	# BR(Hpm_7 -> Hpm_5 hh_2)
2.14243767E-18	2	1000013	1000012	# BR(Hpm_7 -> Hpm_5 hh_3)
1.68183089E-18	2	1000013	1000014	# BR(Hpm_7 -> Hpm_5 hh_4)
2.68315366E-18	2	1000013	1000016	# BR(Hpm_7 -> Hpm_5 hh_5)
1.92682757E-07	2	1000013	2000012	# BR(Hpm_7 -> Hpm_5 hh_6)
1.39728031E-17	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)
3.93063025E-27	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)
1.78324065E-17	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)
1.78085208E-17	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)
2.47706520E-18	2	1000016	-24	# BR(Hpm_7 -> hh_5 Vwm)
4.30162279E-06	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)
2.34875180E-28	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm)
7.25468457E-19	2	2000016	-24	# BR(Hpm_7 -> hh_8 Vwm)
1.28879633E-29	2	37	23	# BR(Hpm_7 -> Hpm_2 VZ)
4.21535028E-06	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)
2.35516924E-28	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ)
8.17434076E-19	2	1000013	23	# BR(Hpm_7 -> Hpm_5 VZ)
3.00827392E-22	2	-24	23	# BR(Hpm_7 -> Vwm VZ)

DECAY		2000015	2.47730811E-01	# Hpm_8	
#	BR	NDA	ID1	ID2	
1.04522627E-26	2	37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)	
4.25021473E-22	2	37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7)	
5.40562275E-24	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2)	
4.84674183E-28	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4)	
4.82804559E-28	2	1000011	1000019	# BR(Hpm_8 -> Hpm_3 Ah_5)	
9.15894866E-27	2	1000011	2000018	# BR(Hpm_8 -> Hpm_3 Ah_6)	
2.14115619E-22	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7)	
7.79205361E-25	2	1000011	2000020	# BR(Hpm_8 -> Hpm_3 Ah_8)	
6.01415728E-11	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2)	
3.77569349E-21	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3)	
5.35939636E-15	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4)	
5.34507025E-15	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5)	
6.50014745E-22	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6)	
7.85658044E-24	2	2000011	2000019	# BR(Hpm_8 -> Hpm_4 Ah_7)	
1.62068751E-23	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2)	
1.27652809E-23	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4)	
9.10041779E-25	2	1000013	1000019	# BR(Hpm_8 -> Hpm_5 Ah_5)	
3.41134930E-25	2	1000013	2000018	# BR(Hpm_8 -> Hpm_5 Ah_6)	
5.04959615E-23	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm)	
9.70939172E-23	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm)	
7.06991682E-24	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm)	
7.61987683E-24	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm)	
8.32978132E-11	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm)	
5.44911520E-24	2	2000020	-24	# BR(Hpm_8 -> Ah_8 Vwm)	
1.32841077E-15	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1)	
6.68163542E-22	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2)	
9.55938851E-23	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3)	

5.55427020E-09	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4)
1.42135440E-13	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1)
3.08605935E-22	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2)
4.41521702E-23	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3)
2.56536138E-09	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4)
3.04965983E-13	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1)
3.21143100E-24	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2)
4.59474071E-25	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3)
2.66960492E-11	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4)
1.96412079E-05	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1)
3.47487095E-23	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2)
2.00617481E-21	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
2.24112553E-05	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
3.96497203E-23	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
1.22594108E-22	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
2.45283513E-02	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
4.34016585E-20	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
1.92892193E-23	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
2.86634651E-02	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
5.10280850E-20	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
1.92940699E-24	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
3.64353837E-03	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
6.73833210E-21	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
2.99313842E-24	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
9.43122584E-01	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
1.66849287E-18	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
6.44298771E-30	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
1.20437401E-28	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
3.33224812E-28	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
1.57589516E-26	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
9.40605101E-24	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
1.04522625E-26	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
4.25021473E-22	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
6.18977910E-24	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
2.92550091E-26	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
3.81949306E-26	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
6.73848477E-24	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5)
9.16058885E-27	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6)
2.14115626E-22	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7)
7.65781591E-25	2	1000011	2000016	# BR(Hpm_8 -> Hpm_3 hh_8)
6.89822035E-11	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
4.73707017E-20	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2)
3.24484673E-13	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
4.23669456E-13	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
7.47422746E-11	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
1.01762636E-21	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6)
1.12254266E-23	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7)
2.91692218E-23	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1)
1.13112617E-23	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3)
3.86591590E-25	2	1000013	1000014	# BR(Hpm_8 -> Hpm_5 hh_4)
1.20126408E-23	2	1000013	1000016	# BR(Hpm_8 -> Hpm_5 hh_5)
3.41140719E-25	2	1000013	2000012	# BR(Hpm_8 -> Hpm_5 hh_6)
4.84587309E-23	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
9.35501347E-23	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
5.34480281E-24	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
1.13503346E-24	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
7.61990906E-24	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
8.32978132E-11	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
5.39540146E-24	2	2000016	-24	# BR(Hpm_8 -> hh_8 Vwm)
7.46716419E-24	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
8.21978615E-11	2	2000011	23	# BR(Hpm_8 -> Hpm_4 VZ)
5.09849105E-24	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ)
2.90347288E-27	2	-24	23	# BR(Hpm_8 -> Vwm VZ)