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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 26.09.2019, 14:31
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 4.30254698E+00 # TanBeta
Block EXTPAR # Input parameters
  65 1.69437350E+02 # vR1Input
  66 1.69437350E+02 # vR2Input
  67 1.69437350E+02 # vR3Input
  200 1.50000007E-04 # vL1Input
  201 4.00999998E-04 # vL2Input
  202 5.49999997E-04 # vL3Input
Block SMINPUTS # SM parameters
  1 1.27932000E+02 # alpha_em^-1(MZ)^MSbar
  2 1.16637000E-05 # G_mu [GeV^-2]
  3 1.18700000E-01 # alpha_s(MZ)^MSbar
  4 9.11887000E+01 # m_Z(pole)
  5 4.20000000E+00 # m_b(m_b), MSbar
  6 1.72600000E+02 # m_t(pole)
  7 1.77669000E+00 # m_tau(pole)
Block MSOFT # (SUSY Scale)
  21 7.06989292E+05 # mHd2
  22 2.41720268E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 5.34811404E+01 # vd
  103 2.30105119E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 6.48587303E-05 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 1.23007936E-03 # Real(Yd(2,2),dp)
  2 3 0.00000000E+00 # Real(Yd(2,3),dp)
  3 1 0.00000000E+00 # Real(Yd(3,1),dp)
  3 2 0.00000000E+00 # Real(Yd(3,2),dp)
  3 3 6.37404742E-02 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 1.25928050E-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 2.66159038E-03 # Real(Ye(2,2),dp)

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2 3      0.00000000E+00 # Real(Ye(2,3),dp)
3 1      0.00000000E+00 # Real(Ye(3,1),dp)
3 2      0.00000000E+00 # Real(Ye(3,2),dp)
3 3      4.52470371E-02 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      5.69437438E-01 # Real(lam(1),dp)
  2      5.69437438E-01 # Real(lam(2),dp)
  3      5.69437438E-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      6.37975409E-06 # Real(Yu(1,1),dp)
  1 2      1.47563403E-06 # Real(Yu(1,2),dp)
  1 3      2.24276319E-08 # Real(Yu(1,3),dp)
  2 1      -7.19058978E-04 # Real(Yu(2,1),dp)
  2 2      3.10678079E-03 # Real(Yu(2,2),dp)
  2 3      1.31444984E-04 # Real(Yu(2,3),dp)
  3 1      5.32894102E-03 # Real(Yu(3,1),dp)
  3 2      -3.66467875E-02 # Real(Yu(3,2),dp)
  3 3      8.95320269E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      8.74437734E-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      8.91926472E-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      9.09415210E-01 # Real(kap(3,3,3),dp)
Block Td # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Td(1,1),dp)
  1 2      0.00000000E+00 # Real(Td(1,2),dp)
  1 3      0.00000000E+00 # Real(Td(1,3),dp)
  2 1      0.00000000E+00 # Real(Td(2,1),dp)
  2 2      0.00000000E+00 # Real(Td(2,2),dp)
  2 3      0.00000000E+00 # Real(Td(2,3),dp)
  3 1      0.00000000E+00 # Real(Td(3,1),dp)
  3 2      0.00000000E+00 # Real(Td(3,2),dp)
  3 3      1.00000000E+02 # Real(Td(3,3),dp)
Block Te # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Te(1,1),dp)
  1 2      0.00000000E+00 # Real(Te(1,2),dp)
  1 3      0.00000000E+00 # Real(Te(1,3),dp)
  2 1      0.00000000E+00 # Real(Te(2,1),dp)
  2 2      0.00000000E+00 # Real(Te(2,2),dp)
  2 3      0.00000000E+00 # Real(Te(2,3),dp)

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3 1      0.00000000E+00 # Real(Te(3,1),dp)
3 2      0.00000000E+00 # Real(Te(3,2),dp)
3 3      4.00000000E+01 # Real(Te(3,3),dp)
Block {NMSSMRUN, 3} # (SUSY Scale)
  1      4.07734808E+02 # Real(Tlam(1) ,dp)
  2      4.07734808E+02 # Real(Tlam(2) ,dp)
  3      4.07734808E+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     -1.81490805E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1    -2.37763597E+02 # 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    -2.37763597E+02 # 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    -2.37763597E+02 # Real(Tk(3,3,3),dp)
Block MSQ2 # (SUSY Scale)
  1 1      1.00000000E+06 # Real(mq2(1,1),dp)
  1 2      0.00000000E+00 # Real(mq2(1,2),dp)
  1 3      0.00000000E+00 # Real(mq2(1,3),dp)
  2 1      0.00000000E+00 # Real(mq2(2,1),dp)
  2 2      1.00000000E+06 # Real(mq2(2,2),dp)
  2 3      0.00000000E+00 # Real(mq2(2,3),dp)
  3 1      0.00000000E+00 # Real(mq2(3,1),dp)
  3 2      0.00000000E+00 # Real(mq2(3,2),dp)
  3 3      6.03213216E+05 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      2.07580130E+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      9.12545253E+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 3.81297469E+04 # Real(ml2(3,3),dp)
Block MSD2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(md2(1,1),dp)
1 2 0.00000000E+00 # Real(md2(1,2),dp)
1 3 0.00000000E+00 # Real(md2(1,3),dp)
2 1 0.00000000E+00 # Real(md2(2,1),dp)
2 2 1.00000000E+06 # Real(md2(2,2),dp)
2 3 0.00000000E+00 # Real(md2(2,3),dp)
3 1 0.00000000E+00 # Real(md2(3,1),dp)
3 2 0.00000000E+00 # Real(md2(3,2),dp)
3 3 1.00000000E+06 # Real(md2(3,3),dp)
Block MSU2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(mu2(1,1),dp)
1 2 0.00000000E+00 # Real(mu2(1,2),dp)
1 3 0.00000000E+00 # Real(mu2(1,3),dp)
2 1 0.00000000E+00 # Real(mu2(2,1),dp)
2 2 1.00000000E+06 # Real(mu2(2,2),dp)
2 3 0.00000000E+00 # Real(mu2(2,3),dp)
3 1 0.00000000E+00 # Real(mu2(3,1),dp)
3 2 0.00000000E+00 # Real(mu2(3,2),dp)
3 3 6.03213216E+05 # Real(mu2(3,3),dp)
Block MSE2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(me2(1,1),dp)
1 2 0.00000000E+00 # Real(me2(1,2),dp)
1 3 0.00000000E+00 # Real(me2(1,3),dp)
2 1 0.00000000E+00 # Real(me2(2,1),dp)
2 2 1.00000000E+06 # Real(me2(2,2),dp)
2 3 0.00000000E+00 # Real(me2(2,3),dp)
3 1 0.00000000E+00 # Real(me2(3,1),dp)
3 2 0.00000000E+00 # Real(me2(3,2),dp)
3 3 1.00000000E+06 # Real(me2(3,3),dp)
Block mv2 # (SUSY Scale)
1 1 1.72928249E+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 1.64838753E+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 1.56561407E+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 1.69437350E+02 # vR(1)
2 1.69437350E+02 # vR(2)
3 1.69437350E+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 7.78601148E+02 # Sd_1
1000003 1.00026442E+03 # Sd_2
1000005 1.00026476E+03 # Sd_3
2000001 1.00027115E+03 # Sd_4
2000003 1.00150272E+03 # Sd_5
2000005 1.00150306E+03 # Sd_6
1000002 5.66084533E+02 # Su_1
1000004 9.61721110E+02 # Su_2
1000006 9.98760177E+02 # Su_3
2000002 9.98783062E+02 # Su_4
2000004 9.99470267E+02 # Su_5
2000006 9.99470624E+02 # Su_6
25 1.26316078E+02 # hh_1
35 1.27567012E+02 # hh_2
1000012 1.30168070E+02 # hh_3
1000014 1.41169866E+02 # hh_4
1000016 1.47733610E+02 # hh_5

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2000012      2.66898607E+02 # hh_6
2000014      4.35570545E+02 # hh_7
2000016      8.96768322E+02 # hh_8
   36      1.30168070E+02 # Ah_2
1000017      2.66898607E+02 # Ah_3
1000018      3.06440982E+02 # Ah_4
1000019      3.06599683E+02 # Ah_5
2000018      3.14751142E+02 # Ah_6
2000019      4.35570546E+02 # Ah_7
2000020      8.92607306E+02 # Ah_8
   37      1.44776185E+02 # Hpm_2
1000011      2.74715067E+02 # Hpm_3
2000011      4.39387610E+02 # Hpm_4
1000013      8.63348141E+02 # Hpm_5
2000013      1.00271441E+03 # Hpm_6
1000015      1.00276209E+03 # Hpm_7
2000015      1.00276219E+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      2.38042691E-12 # Chi_1
   14      1.04710418E-11 # Chi_2
   16      5.31033123E-11 # Chi_3
1000022      1.36719845E+02 # Chi_4
1000023      2.02992280E+02 # Chi_5
1000025      2.07549274E+02 # Chi_6
1000039      2.47342122E+02 # Chi_7
1000045      3.04562942E+02 # Chi_8
1000055      8.96214534E+02 # Chi_9
1000065      1.77299652E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      2.03271784E+02 # Cha_4
1000037      1.77307298E+03 # Cha_5
Block DSQMIX # ( )
 1 1      0.00000000E+00 # Real(ZD(1,1),dp)
 1 2      0.00000000E+00 # Real(ZD(1,2),dp)
 1 3     -9.99991150E-01 # Real(ZD(1,3),dp)
 1 4      0.00000000E+00 # Real(ZD(1,4),dp)
 1 5      0.00000000E+00 # Real(ZD(1,5),dp)
 1 6      4.20722849E-03 # Real(ZD(1,6),dp)
 2 1      1.55086585E-13 # Real(ZD(2,1),dp)
 2 2     -1.65237156E-02 # Real(ZD(2,2),dp)
 2 3      0.00000000E+00 # Real(ZD(2,3),dp)
 2 4      1.77980138E-10 # Real(ZD(2,4),dp)
 2 5     -9.99863474E-01 # Real(ZD(2,5),dp)
 2 6      0.00000000E+00 # Real(ZD(2,6),dp)
 3 1     -8.71606480E-04 # Real(ZD(3,1),dp)
 3 2     -2.85939057E-12 # Real(ZD(3,2),dp)
 3 3      0.00000000E+00 # Real(ZD(3,3),dp)
 3 4     -9.99999620E-01 # Real(ZD(3,4),dp)
 3 5     -1.77957252E-10 # Real(ZD(3,5),dp)
 3 6      0.00000000E+00 # Real(ZD(3,6),dp)
 4 1      0.00000000E+00 # Real(ZD(4,1),dp)
 4 2      0.00000000E+00 # Real(ZD(4,2),dp)
 4 3      4.20722849E-03 # Real(ZD(4,3),dp)
 4 4      0.00000000E+00 # Real(ZD(4,4),dp)
 4 5      0.00000000E+00 # Real(ZD(4,5),dp)
 4 6      9.99991150E-01 # Real(ZD(4,6),dp)
 5 1      9.99999620E-01 # Real(ZD(5,1),dp)
 5 2      2.59997592E-13 # Real(ZD(5,2),dp)
 5 3      0.00000000E+00 # Real(ZD(5,3),dp)
 5 4     -8.71606480E-04 # Real(ZD(5,4),dp)
 5 5     -4.33883294E-15 # Real(ZD(5,5),dp)
 5 6      0.00000000E+00 # Real(ZD(5,6),dp)
 6 1     -2.59962662E-13 # Real(ZD(6,1),dp)

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6 2      9.99863474E-01 # Real(ZD(6,2),dp)
6 3     -0.00000000E+00 # Real(ZD(6,3),dp)
6 4      8.16314677E-14 # Real(ZD(6,4),dp)
6 5     -1.65237156E-02 # Real(ZD(6,5),dp)
6 6     -0.00000000E+00 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -8.90415827E-05 # Real(ZU(1,1),dp)
1 2      6.12340093E-04 # Real(ZU(1,2),dp)
1 3      7.07957896E-01 # Real(ZU(1,3),dp)
1 4      1.84959585E-10 # Real(ZU(1,4),dp)
1 5      1.08401950E-06 # Real(ZU(1,5),dp)
1 6      7.06254369E-01 # Real(ZU(1,6),dp)
2 1      1.62969261E-03 # Real(ZU(2,1),dp)
2 2     -1.12073759E-02 # Real(ZU(2,2),dp)
2 3     -7.06204249E-01 # Real(ZU(2,3),dp)
2 4     -2.29792791E-09 # Real(ZU(2,4),dp)
2 5     -1.34677129E-05 # Real(ZU(2,5),dp)
2 6      7.07917578E-01 # Real(ZU(2,6),dp)
3 1     -9.89632747E-01 # Real(ZU(3,1),dp)
3 2     -1.43613820E-01 # Real(ZU(3,2),dp)
3 3     -2.44561034E-06 # Real(ZU(3,3),dp)
3 4     -3.55962466E-05 # Real(ZU(3,4),dp)
3 5      1.44760871E-03 # Real(ZU(3,5),dp)
3 6      2.19730175E-06 # Real(ZU(3,6),dp)
4 1      1.43556052E-01 # Real(ZU(4,1),dp)
4 2     -9.89415337E-01 # Real(ZU(4,2),dp)
4 3      8.43538114E-03 # Real(ZU(4,3),dp)
4 4     -3.06611038E-06 # Real(ZU(4,4),dp)
4 5     -1.78981058E-02 # Real(ZU(4,5),dp)
4 6     -7.57975367E-03 # Real(ZU(4,6),dp)
5 1     -3.47996550E-05 # Real(ZU(5,1),dp)
5 2     -8.09066844E-06 # Real(ZU(5,2),dp)
5 3      2.35797990E-08 # Real(ZU(5,3),dp)
5 4      9.99999999E-01 # Real(ZU(5,4),dp)
5 5     -3.15228436E-06 # Real(ZU(5,5),dp)
5 6     -2.12663082E-08 # Real(ZU(5,6),dp)
6 1     -4.00264967E-03 # Real(ZU(6,1),dp)
6 2      1.75037375E-02 # Real(ZU(6,2),dp)
6 3     -1.40725177E-04 # Real(ZU(6,3),dp)
6 4     -3.14944399E-06 # Real(ZU(6,4),dp)
6 5     -9.99838768E-01 # Real(ZU(6,5),dp)
6 6      1.26918440E-04 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1     -4.10328798E-02 # ZH(1,1)
1 2      5.10761988E-01 # ZH(1,2)
1 3     -6.68333335E-01 # ZH(1,3)
1 4     -4.33863102E-01 # ZH(1,4)
1 5     -3.20205959E-01 # ZH(1,5)
1 6     -2.63068957E-07 # ZH(1,6)
1 7      6.73082871E-11 # ZH(1,7)
1 8      1.14106850E-05 # ZH(1,8)
2 1     -2.77376829E-01 # ZH(2,1)
2 2     -8.30702310E-01 # ZH(2,2)
2 3     -3.50320262E-01 # ZH(2,3)
2 4     -2.55657663E-01 # ZH(2,4)
2 5     -2.11921287E-01 # ZH(2,5)
2 6     -9.43566577E-07 # ZH(2,6)
2 7     -2.80258506E-06 # ZH(2,7)
2 8     -8.90760106E-05 # ZH(2,8)
3 1     -2.39276869E-05 # ZH(3,1)
3 2     -8.02100437E-05 # ZH(3,2)
3 3     -2.72431923E-05 # ZH(3,3)
3 4     -1.89757271E-05 # ZH(3,4)
3 5     -6.66862407E-06 # ZH(3,5)
3 6     -8.47184291E-11 # ZH(3,6)
3 7     -2.52696608E-10 # ZH(3,7)
3 8      9.99999996E-01 # ZH(3,8)
4 1      3.14801960E-02 # ZH(4,1)
4 2     -3.59694149E-02 # ZH(4,2)
4 3     -6.25133500E-01 # ZH(4,3)
4 4      7.41662823E-01 # ZH(4,4)
4 5      2.38452434E-01 # ZH(4,5)
4 6     -6.31080201E-07 # ZH(4,6)

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4	7	2.23919511E-06	# ZH(4,7)
4	8	-3.49875123E-06	# ZH(4,8)
5	1	2.52483842E-02	# ZH(5,1)
5	2	-3.03589927E-02	# ZH(5,2)
5	3	-1.69718728E-01	# ZH(5,3)
5	4	-4.30352887E-01	# ZH(5,4)
5	5	8.85682108E-01	# ZH(5,5)
5	6	-1.91308872E-07	# ZH(5,6)
5	7	-1.44098136E-06	# ZH(5,7)
5	8	-8.71461862E-06	# ZH(5,8)
6	1	-8.41282811E-07	# ZH(6,1)
6	2	-2.28462624E-06	# ZH(6,2)
6	3	1.76738027E-07	# ZH(6,3)
6	4	-2.99405196E-06	# ZH(6,4)
6	5	1.51702609E-07	# ZH(6,5)
6	6	-1.82305093E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	-1.67107170E-12	# ZH(6,8)
7	1	-2.88005634E-07	# ZH(7,1)
7	2	-6.68896399E-07	# ZH(7,2)
7	3	-9.28949738E-07	# ZH(7,3)
7	4	3.47738636E-08	# ZH(7,4)
7	5	4.01706120E-08	# ZH(7,5)
7	6	1.00000000E+00	# ZH(7,6)
7	7	3.14741241E-13	# ZH(7,7)
7	8	-2.04751981E-13	# ZH(7,8)
8	1	9.59035929E-01	# ZH(8,1)
8	2	-2.16426406E-01	# ZH(8,2)
8	3	-1.04928203E-01	# ZH(8,3)
8	4	-1.05520698E-01	# ZH(8,4)
8	5	-1.06137420E-01	# ZH(8,5)
8	6	4.19008474E-08	# ZH(8,6)
8	7	3.10786681E-08	# ZH(8,7)
8	8	1.92381715E-08	# ZH(8,8)
Block PSEUDOSCALARMIX # ( )			
1	1	-2.26372105E-01	# ZA(1,1)
1	2	9.74040849E-01	# ZA(1,2)
1	3	1.73376601E-04	# ZA(1,3)
1	4	1.76688810E-04	# ZA(1,4)
1	5	1.79983550E-04	# ZA(1,5)
1	6	-6.18693197E-07	# ZA(1,6)
1	7	-1.61948323E-06	# ZA(1,7)
1	8	-1.79712154E-06	# ZA(1,8)
2	1	-3.79063258E-07	# ZA(2,1)
2	2	1.75682232E-06	# ZA(2,2)
2	3	-3.37657140E-08	# ZA(2,3)
2	4	-3.43317357E-08	# ZA(2,4)
2	5	5.96766914E-07	# ZA(2,5)
2	6	-9.09742053E-13	# ZA(2,6)
2	7	-6.27504678E-13	# ZA(2,7)
2	8	1.00000000E+00	# ZA(2,8)
3	1	-6.19459705E-08	# ZA(3,1)
3	2	1.64742098E-06	# ZA(3,2)
3	3	-5.64757120E-07	# ZA(3,3)
3	4	5.67185334E-06	# ZA(3,4)
3	5	-5.51060391E-07	# ZA(3,5)
3	6	-1.95700804E-12	# ZA(3,6)
3	7	1.00000000E+00	# ZA(3,7)
3	8	-1.78569296E-12	# ZA(3,8)
4	1	-2.21916920E-03	# ZA(4,1)
4	2	-5.14927599E-04	# ZA(4,2)
4	3	-8.00021225E-01	# ZA(4,3)
4	4	5.59278970E-01	# ZA(4,4)
4	5	2.17181683E-01	# ZA(4,5)
4	6	-1.54912339E-06	# ZA(4,6)
4	7	-3.50357492E-06	# ZA(4,7)
4	8	-1.37355682E-07	# ZA(4,8)
5	1	2.15147939E-03	# ZA(5,1)
5	2	4.99188704E-04	# ZA(5,2)
5	3	2.04994089E-01	# ZA(5,3)
5	4	5.95019811E-01	# ZA(5,4)
5	5	-7.77125453E-01	# ZA(5,5)
5	6	3.96781978E-07	# ZA(5,6)

5	7	-3.68802539E-06	# ZA(5,7)
5	8	4.91051154E-07	# ZA(5,8)
6	1	1.23413329E-01	# ZA(6,1)
6	2	2.83702084E-02	# ZA(6,2)
6	3	5.59032768E-01	# ZA(6,3)
6	4	5.72547078E-01	# ZA(6,4)
6	5	5.86205160E-01	# ZA(6,5)
6	6	1.16557234E-06	# ZA(6,6)
6	7	-2.64774359E-06	# ZA(6,7)
6	8	-3.14355126E-07	# ZA(6,8)
7	1	-3.23262334E-07	# ZA(7,1)
7	2	5.60417534E-07	# ZA(7,2)
7	3	-1.96948184E-06	# ZA(7,3)
7	4	-3.42823169E-08	# ZA(7,4)
7	5	-3.57272471E-08	# ZA(7,5)
7	6	1.00000000E+00	# ZA(7,6)
7	7	7.61064448E-14	# ZA(7,7)
7	8	-2.43705945E-13	# ZA(7,8)
8	1	9.66185938E-01	# ZA(8,1)
8	2	2.24586376E-01	# ZA(8,2)
8	3	-7.36600146E-02	# ZA(8,3)
8	4	-7.31318671E-02	# ZA(8,4)
8	5	-7.26059571E-02	# ZA(8,5)
8	6	3.62961773E-08	# ZA(8,6)
8	7	2.30459570E-08	# ZA(8,7)
8	8	1.00181365E-08	# ZA(8,8)
Block CHARGEMIX # ( )			
1	1	2.26298509E-01	# ZP(1,1)
1	2	-9.74057999E-01	# ZP(1,2)
1	3	6.33027843E-07	# ZP(1,3)
1	4	1.68369966E-06	# ZP(1,4)
1	5	2.24309027E-06	# ZP(1,5)
1	6	-7.68746720E-16	# ZP(1,6)
1	7	-1.13692982E-12	# ZP(1,7)
1	8	1.25572990E-12	# ZP(1,8)
2	1	5.21661751E-07	# ZP(2,1)
2	2	-2.18163497E-06	# ZP(2,2)
2	3	1.54304909E-12	# ZP(2,3)
2	4	5.26280569E-12	# ZP(2,4)
2	5	-9.99999999E-01	# ZP(2,5)
2	6	-1.53376500E-20	# ZP(2,6)
2	7	8.99030459E-17	# ZP(2,7)
2	8	3.74460183E-05	# ZP(2,8)
3	1	3.99169299E-07	# ZP(3,1)
3	2	-1.63580427E-06	# ZP(3,2)
3	3	1.69205899E-12	# ZP(3,3)
3	4	-9.99999996E-01	# ZP(3,4)
3	5	-1.48585206E-12	# ZP(3,5)
3	6	8.12583051E-17	# ZP(3,6)
3	7	-9.31678755E-05	# ZP(3,7)
3	8	5.29916093E-16	# ZP(3,8)
4	1	-1.69534118E-07	# ZP(4,1)
4	2	6.10500120E-07	# ZP(4,2)
4	3	1.00000000E+00	# ZP(4,3)
4	4	6.25307591E-13	# ZP(4,4)
4	5	1.22712832E-13	# ZP(4,5)
4	6	5.03926552E-07	# ZP(4,6)
4	7	1.54667801E-16	# ZP(4,7)
4	8	-5.97610786E-16	# ZP(4,8)
5	1	9.74057999E-01	# ZP(5,1)
5	2	2.26298509E-01	# ZP(5,2)
5	3	2.69807970E-08	# ZP(5,3)
5	4	1.86339633E-08	# ZP(5,4)
5	5	1.44303532E-08	# ZP(5,5)
5	6	4.38560228E-13	# ZP(5,6)
5	7	2.02901264E-10	# ZP(5,7)
5	8	6.12338420E-08	# ZP(5,8)
6	1	5.96651319E-08	# ZP(6,1)
6	2	1.37742105E-08	# ZP(6,2)
6	3	1.11243467E-15	# ZP(6,3)
6	4	7.94883724E-16	# ZP(6,4)
6	5	-3.74460183E-05	# ZP(6,5)
6	6	3.47615276E-16	# ZP(6,6)



6	7	1.64786887E-13	# ZP(6,7)
6	8	-9.99999999E-01	# ZP(6,8)
7	1	-1.60190585E-10	# ZP(7,1)
7	2	-1.99427989E-10	# ZP(7,2)
7	3	3.71183718E-16	# ZP(7,3)
7	4	-9.31678755E-05	# ZP(7,4)
7	5	-1.11057486E-16	# ZP(7,5)
7	6	-7.39143711E-10	# ZP(7,6)
7	7	9.99999996E-01	# ZP(7,7)
7	8	1.64774509E-13	# ZP(7,8)
8	1	-3.41484685E-13	# ZP(8,1)
8	2	-4.07600355E-13	# ZP(8,2)
8	3	-5.03926552E-07	# ZP(8,3)
8	4	-6.88426642E-14	# ZP(8,4)
8	5	-7.78672589E-20	# ZP(8,5)
8	6	1.00000000E+00	# ZP(8,6)
8	7	7.39143683E-10	# ZP(8,7)
8	8	3.47588845E-16	# ZP(8,8)
Block UVMIX # ()			
1	1	-0.00000000E+00	# Real(UV(1,1), dp)
1	2	-0.00000000E+00	# Real(UV(1,2), dp)
1	3	0.00000000E+00	# Real(UV(1,3), dp)
1	4	0.00000000E+00	# Real(UV(1,4), dp)
1	5	-0.00000000E+00	# Real(UV(1,5), dp)
1	6	-0.00000000E+00	# Real(UV(1,6), dp)
1	7	0.00000000E+00	# Real(UV(1,7), dp)
1	8	0.00000000E+00	# Real(UV(1,8), dp)
1	9	0.00000000E+00	# Real(UV(1,9), dp)
1	10	-0.00000000E+00	# Real(UV(1,10), dp)
2	1	0.00000000E+00	# Real(UV(2,1), dp)
2	2	-0.00000000E+00	# Real(UV(2,2), dp)
2	3	0.00000000E+00	# Real(UV(2,3), dp)
2	4	0.00000000E+00	# Real(UV(2,4), dp)
2	5	-0.00000000E+00	# Real(UV(2,5), dp)
2	6	-0.00000000E+00	# Real(UV(2,6), dp)
2	7	-0.00000000E+00	# Real(UV(2,7), dp)
2	8	-0.00000000E+00	# Real(UV(2,8), dp)
2	9	0.00000000E+00	# Real(UV(2,9), dp)
2	10	-0.00000000E+00	# Real(UV(2,10), dp)
3	1	-0.00000000E+00	# Real(UV(3,1), dp)
3	2	-0.00000000E+00	# Real(UV(3,2), dp)
3	3	-0.00000000E+00	# Real(UV(3,3), dp)
3	4	-0.00000000E+00	# Real(UV(3,4), dp)
3	5	0.00000000E+00	# Real(UV(3,5), dp)
3	6	-0.00000000E+00	# Real(UV(3,6), dp)
3	7	0.00000000E+00	# Real(UV(3,7), dp)
3	8	-0.00000000E+00	# Real(UV(3,8), dp)
3	9	0.00000000E+00	# Real(UV(3,9), dp)
3	10	-0.00000000E+00	# Real(UV(3,10), dp)
4	1	7.16720824E-08	# Real(UV(4,1), dp)
4	2	1.64558533E-07	# Real(UV(4,2), dp)
4	3	9.88952526E-08	# Real(UV(4,3), dp)
4	4	-4.51790875E-02	# Real(UV(4,4), dp)
4	5	3.83734463E-02	# Real(UV(4,5), dp)
4	6	-4.06582944E-01	# Real(UV(4,6), dp)
4	7	7.08252783E-01	# Real(UV(4,7), dp)
4	8	-3.50115603E-01	# Real(UV(4,8), dp)
4	9	-3.30364069E-01	# Real(UV(4,9), dp)
4	10	-3.12783119E-01	# Real(UV(4,10), dp)
5	1	-1.26061547E-07	# Real(UV(5,1), dp)
5	2	1.74842423E-07	# Real(UV(5,2), dp)
5	3	6.11899843E-09	# Real(UV(5,3), dp)
5	4	1.30767320E-03	# Real(UV(5,4), dp)
5	5	-1.08576138E-03	# Real(UV(5,5), dp)
5	6	1.84569986E-02	# Real(UV(5,6), dp)
5	7	-1.74578924E-02	# Real(UV(5,7), dp)
5	8	-7.89261155E-01	# Real(UV(5,8), dp)
5	9	5.76026675E-01	# Real(UV(5,9), dp)
5	10	2.11214988E-01	# Real(UV(5,10), dp)
6	1	3.47884581E-08	# Real(UV(6,1), dp)
6	2	1.82364215E-07	# Real(UV(6,2), dp)
6	3	-2.80755593E-08	# Real(UV(6,3), dp)
6	4	-1.26923077E-03	# Real(UV(6,4), dp)

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6 5      1.05247867E-03 # Real(UV(6,5),dp)
6 6     -1.83217909E-02 # Real(UV(6,6),dp)
6 7      1.67556627E-02 # Real(UV(6,7),dp)
6 8      2.11542126E-01 # Real(UV(6,8),dp)
6 9      5.79416959E-01 # Real(UV(6,9),dp)
6 10     -7.86706271E-01 # Real(UV(6,10),dp)
7 1      0.00000000E+00 # Real(UV(7,1),dp)
7 2      0.00000000E+00 # Real(UV(7,2),dp)
7 3      0.00000000E+00 # Real(UV(7,3),dp)
7 4      0.00000000E+00 # Real(UV(7,4),dp)
7 5     -0.00000000E+00 # Real(UV(7,5),dp)
7 6     -0.00000000E+00 # Real(UV(7,6),dp)
7 7     -0.00000000E+00 # Real(UV(7,7),dp)
7 8     -0.00000000E+00 # Real(UV(7,8),dp)
7 9     -0.00000000E+00 # Real(UV(7,9),dp)
7 10    -0.00000000E+00 # Real(UV(7,10),dp)
8 1      7.26435401E-08 # Real(UV(8,1),dp)
8 2      1.52119960E-07 # Real(UV(8,2),dp)
8 3      3.98002819E-08 # Real(UV(8,3),dp)
8 4     -2.79211394E-02 # Real(UV(8,4),dp)
8 5      2.26273822E-02 # Real(UV(8,5),dp)
8 6     -5.74144983E-01 # Real(UV(8,6),dp)
8 7      2.86531243E-01 # Real(UV(8,7),dp)
8 8      4.25411559E-01 # Real(UV(8,8),dp)
8 9      4.41683763E-01 # Real(UV(8,9),dp)
8 10     4.59245312E-01 # Real(UV(8,10),dp)
9 1      2.77789635E-08 # Real(UV(9,1),dp)
9 2      7.53331945E-08 # Real(UV(9,2),dp)
9 3      1.06999374E-07 # Real(UV(9,3),dp)
9 4     -9.98441470E-01 # Real(UV(9,4),dp)
9 5     -4.87015006E-03 # Real(UV(9,5),dp)
9 6      2.24507626E-02 # Real(UV(9,6),dp)
9 7     -5.08597875E-02 # Real(UV(9,7),dp)
9 8     -2.27137755E-04 # Real(UV(9,8),dp)
9 9     -2.29535761E-04 # Real(UV(9,9),dp)
9 10    -2.31912271E-04 # Real(UV(9,10),dp)
10 1     -2.73711517E-08 # Real(UV(10,1),dp)
10 2     -7.36249600E-08 # Real(UV(10,2),dp)
10 3     -1.02633541E-07 # Real(UV(10,3),dp)
10 4      2.18357541E-03 # Real(UV(10,4),dp)
10 5     -9.98822278E-01 # Real(UV(10,5),dp)
10 6     -1.56070519E-02 # Real(UV(10,6),dp)
10 7      4.58823031E-02 # Real(UV(10,7),dp)
10 8      4.15276212E-04 # Real(UV(10,8),dp)
10 9      4.17871810E-04 # Real(UV(10,9),dp)
10 10     4.20356838E-04 # Real(UV(10,10),dp)

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Block IMUVMIX # ( )

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1 1     -8.53454219E-01 # Aimag(UV(1,1))
1 2     -2.60413674E-01 # Aimag(UV(1,2))
1 3      4.51442813E-01 # Aimag(UV(1,3))
1 4      1.57302600E-09 # Aimag(UV(1,4))
1 5     -1.42099690E-09 # Aimag(UV(1,5))
1 6     -1.51205168E-07 # Aimag(UV(1,6))
1 7      4.05288229E-10 # Aimag(UV(1,7))
1 8      6.67964409E-08 # Aimag(UV(1,8))
1 9      1.40533121E-08 # Aimag(UV(1,9))
1 10    -8.23793667E-08 # Aimag(UV(1,10))
2 1      4.94435843E-01 # Aimag(UV(2,1))
2 2     -6.78432621E-01 # Aimag(UV(2,2))
2 3      5.43380507E-01 # Aimag(UV(2,3))
2 4      1.95290227E-08 # Aimag(UV(2,4))
2 5     -1.84546003E-08 # Aimag(UV(2,5))
2 6     -7.55166060E-08 # Aimag(UV(2,6))
2 7     -6.65931636E-09 # Aimag(UV(2,7))
2 8     -1.12525046E-07 # Aimag(UV(2,8))
2 9      1.76054422E-07 # Aimag(UV(2,9))
2 10    -5.38243387E-08 # Aimag(UV(2,10))
3 1     -1.64769817E-01 # Aimag(UV(3,1))
3 2     -6.86959895E-01 # Aimag(UV(3,2))
3 3     -7.07769038E-01 # Aimag(UV(3,3))
3 4     -1.42059652E-07 # Aimag(UV(3,4))
3 5      1.34488162E-07 # Aimag(UV(3,5))
3 6     -2.79981233E-07 # Aimag(UV(3,6))

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3 7 5.62128457E-08 # Aimag(UV(3,7))  
3 8 -9.43696254E-08 # Aimag(UV(3,8))  
3 9 9.45195604E-08 # Aimag(UV(3,9))  
3 10 -8.89040833E-08 # Aimag(UV(3,10))  
4 1 0.00000000E+00 # Aimag(UV(4,1))  
4 2 0.00000000E+00 # Aimag(UV(4,2))  
4 3 0.00000000E+00 # Aimag(UV(4,3))  
4 4 0.00000000E+00 # Aimag(UV(4,4))  
4 5 0.00000000E+00 # Aimag(UV(4,5))  
4 6 0.00000000E+00 # Aimag(UV(4,6))  
4 7 0.00000000E+00 # Aimag(UV(4,7))  
4 8 0.00000000E+00 # Aimag(UV(4,8))  
4 9 0.00000000E+00 # Aimag(UV(4,9))  
4 10 0.00000000E+00 # Aimag(UV(4,10))  
5 1 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 9.17041557E-08 # Aimag(UV(7,1))  
7 2 1.85193505E-07 # Aimag(UV(7,2))  
7 3 4.28912627E-08 # Aimag(UV(7,3))  
7 4 1.69056858E-02 # Aimag(UV(7,4))  
7 5 -1.85346386E-02 # Aimag(UV(7,5))  
7 6 -7.09664627E-01 # Aimag(UV(7,6))  
7 7 -6.41093135E-01 # Aimag(UV(7,7))  
7 8 -1.69589519E-01 # Aimag(UV(7,8))  
7 9 -1.68059706E-01 # Aimag(UV(7,9))  
7 10 -1.66558414E-01 # Aimag(UV(7,10))  
8 1 0.00000000E+00 # Aimag(UV(8,1))  
8 2 0.00000000E+00 # Aimag(UV(8,2))  
8 3 0.00000000E+00 # Aimag(UV(8,3))  
8 4 0.00000000E+00 # Aimag(UV(8,4))  
8 5 0.00000000E+00 # Aimag(UV(8,5))  
8 6 0.00000000E+00 # Aimag(UV(8,6))  
8 7 0.00000000E+00 # Aimag(UV(8,7))  
8 8 0.00000000E+00 # Aimag(UV(8,8))  
8 9 0.00000000E+00 # Aimag(UV(8,9))  
8 10 0.00000000E+00 # Aimag(UV(8,10))  
9 1 0.00000000E+00 # Aimag(UV(9,1))  
9 2 0.00000000E+00 # Aimag(UV(9,2))  
9 3 0.00000000E+00 # Aimag(UV(9,3))  
9 4 0.00000000E+00 # Aimag(UV(9,4))  
9 5 0.00000000E+00 # Aimag(UV(9,5))  
9 6 0.00000000E+00 # Aimag(UV(9,6))  
9 7 0.00000000E+00 # Aimag(UV(9,7))  
9 8 0.00000000E+00 # Aimag(UV(9,8))  
9 9 0.00000000E+00 # Aimag(UV(9,9))  
9 10 0.00000000E+00 # Aimag(UV(9,10))  
10 1 0.00000000E+00 # Aimag(UV(10,1))  
10 2 0.00000000E+00 # Aimag(UV(10,2))  
10 3 0.00000000E+00 # Aimag(UV(10,3))  
10 4 0.00000000E+00 # Aimag(UV(10,4))  
10 5 0.00000000E+00 # Aimag(UV(10,5))  
10 6 0.00000000E+00 # Aimag(UV(10,6))  
10 7 0.00000000E+00 # Aimag(UV(10,7))  
10 8 0.00000000E+00 # Aimag(UV(10,8))  
10 9 0.00000000E+00 # Aimag(UV(10,9))

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10 10      0.00000000E+00 # Aimag(UV(10,10))
Block UERMIX # ( )
 1 1      1.00000000E+00 # Real(ZER(1,1),dp)
 1 2      1.33515549E-06 # Real(ZER(1,2),dp)
 1 3      5.97850407E-09 # Real(ZER(1,3),dp)
 1 4     -4.17800985E-08 # Real(ZER(1,4),dp)
 1 5      1.43844429E-07 # Real(ZER(1,5),dp)
 2 1      1.33515554E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.59983677E-08 # Real(ZER(2,3),dp)
 2 4      1.10444972E-07 # Real(ZER(2,4),dp)
 2 5     -2.98880273E-07 # Real(ZER(2,5),dp)
 3 1     -5.97850479E-09 # Real(ZER(3,1),dp)
 3 2     -1.59984254E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.47205861E-07 # Real(ZER(3,4),dp)
 3 5      1.10412716E-07 # Real(ZER(3,5),dp)
 4 1      1.44728256E-07 # Real(ZER(4,1),dp)
 4 2      3.01237599E-07 # Real(ZER(4,2),dp)
 4 3      1.13624085E-07 # Real(ZER(4,3),dp)
 4 4      2.19969442E-02 # Real(ZER(4,4),dp)
 4 5     -9.99758038E-01 # Real(ZER(4,5),dp)
 5 1      3.86057119E-08 # Real(ZER(5,1),dp)
 5 2      1.03843845E-07 # Real(ZER(5,2),dp)
 5 3      1.44741502E-07 # Real(ZER(5,3),dp)
 5 4      9.99758038E-01 # Real(ZER(5,4),dp)
 5 5      2.19969442E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      1.02613649E-13 # Real(ZEL(1,2),dp)
 1 3      8.24353639E-15 # Real(ZEL(1,3),dp)
 1 4     -4.37473145E-13 # Real(ZEL(1,4),dp)
 1 5      6.81851239E-12 # Real(ZEL(1,5),dp)
 2 1      1.02614257E-13 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -4.61972993E-12 # Real(ZEL(2,3),dp)
 2 4      2.43646844E-10 # Real(ZEL(2,4),dp)
 2 5     -3.80759385E-09 # Real(ZEL(2,5),dp)
 3 1     -8.24415723E-15 # Real(ZEL(3,1),dp)
 3 2     -4.62008848E-12 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -5.52711574E-09 # Real(ZEL(3,4),dp)
 3 5      8.62943924E-08 # Real(ZEL(3,5),dp)
 4 1      6.83252937E-12 # Real(ZEL(4,1),dp)
 4 2      3.81537923E-09 # Real(ZEL(4,2),dp)
 4 3      8.64711733E-08 # Real(ZEL(4,3),dp)
 4 4      6.49082574E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97891236E-01 # Real(ZEL(4,5),dp)
 5 1     -6.02714054E-15 # Real(ZEL(5,1),dp)
 5 2     -4.01123221E-12 # Real(ZEL(5,2),dp)
 5 3     -8.57582840E-11 # Real(ZEL(5,3),dp)
 5 4      9.97891236E-01 # Real(ZEL(5,4),dp)
 5 5      6.49082574E-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 0.00000000E+00 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 0.00000000E+00 # Real(ZUR(2,1),dp)
 2 2 1.00000000E+00 # Real(ZUR(2,2),dp)
 2 3 0.00000000E+00 # Real(ZUR(2,3),dp)
 3 1 0.00000000E+00 # Real(ZUR(3,1),dp)
 3 2 0.00000000E+00 # Real(ZUR(3,2),dp)
 3 3 1.00000000E+00 # Real(ZUR(3,3),dp)
DECAY 25 4.46717291E-04 # hh_1
# BR NDA ID1 ID2
8.51989461E-03 2 22 22 # BR(hh_1 -> VP VP )
2.26613964E-01 2 21 21 # BR(hh_1 -> VG VG )
5.72040319E-02 2 23 23 # BR(hh_1 -> VZ VZ )
5.10852362E-01 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
1.50198282E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
4.06799977E-30 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
1.49270832E-23 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
4.06799977E-30 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
6.70966171E-05 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
7.68466586E-23 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
1.49270832E-23 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
7.68466586E-23 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
1.93679913E-02 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
3.62417442E-24 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
3.14925422E-23 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
1.64096782E-21 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
1.99356665E-22 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
2.29241686E-21 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
7.70011564E-21 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
1.32544143E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
4.76749169E-05 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
1.27606397E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
2.09336081E-07 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
1.51935117E-30 2 -2 4 # BR(hh_1 -> Fu_1^* Fu_2 )
1.53831906E-30 2 -4 2 # BR(hh_1 -> Fu_2^* Fu_1 )
4.97202442E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 4.27722242E-03 # hh_2
# BR NDA ID1 ID2
1.55588854E-03 2 22 22 # BR(hh_2 -> VP VP )
5.77552865E-02 2 21 21 # BR(hh_2 -> VG VG )
2.25064181E-02 2 23 23 # BR(hh_2 -> VZ VZ )
1.95326937E-01 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
7.23922385E-09 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
9.63591997E-29 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
8.95745315E-23 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
9.63591997E-29 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
3.23390829E-04 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
3.96175114E-22 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
8.95745315E-23 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
3.96175114E-22 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
9.33515839E-02 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
3.04174841E-24 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )
1.95799235E-22 2 12 14 # BR(hh_2 -> Chi_1 Chi_2 )
8.91789837E-21 2 12 16 # BR(hh_2 -> Chi_1 Chi_3 )
5.40373896E-22 2 14 14 # BR(hh_2 -> Chi_2 Chi_2 )
1.77351856E-20 2 14 16 # BR(hh_2 -> Chi_2 Chi_3 )
4.95308207E-20 2 16 16 # BR(hh_2 -> Chi_3 Chi_3 )
6.38833353E-07 2 -1 1 # BR(hh_2 -> Fd_1^* Fd_1 )
2.29782519E-04 2 -3 3 # BR(hh_2 -> Fd_2^* Fd_2 )
6.15077991E-01 2 -5 5 # BR(hh_2 -> Fd_3^* Fd_3 )
5.84047903E-08 2 -2 2 # BR(hh_2 -> Fu_1^* Fu_1 )

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	1.38720172E-02	2	-4	4	# BR(hh_2 -> Fu_2^* Fu_2 )
DECAY	1000012	3.70042392E-11	# hh_3		
#	BR	NDA	ID1	ID2	
	1.78324552E-03	2	22	22	# BR(hh_3 -> VP VP )
	6.71866853E-02	2	21	21	# BR(hh_3 -> VG VG )
	3.14369850E-02	2	23	23	# BR(hh_3 -> VZ VZ )
	2.59566028E-01	2	24	-24	# BR(hh_3 -> Vwm^* Vwm_virt )
	6.35374119E-09	2	-11	11	# BR(hh_3 -> Cha_1^* Cha_1 )
	1.10258209E-28	2	-11	13	# BR(hh_3 -> Cha_1^* Cha_2 )
	1.38774635E-06	2	-11	15	# BR(hh_3 -> Cha_1^* Cha_3 )
	1.10258209E-28	2	-13	11	# BR(hh_3 -> Cha_2^* Cha_1 )
	2.83834567E-04	2	-13	13	# BR(hh_3 -> Cha_2^* Cha_2 )
	6.13648510E-06	2	-13	15	# BR(hh_3 -> Cha_2^* Cha_3 )
	1.38774635E-06	2	-15	11	# BR(hh_3 -> Cha_3^* Cha_1 )
	6.13648510E-06	2	-15	13	# BR(hh_3 -> Cha_3^* Cha_2 )
	8.32351853E-02	2	-15	15	# BR(hh_3 -> Cha_3^* Cha_3 )
	3.21264625E-08	2	12	12	# BR(hh_3 -> Chi_1 Chi_1 )
	3.13811808E-06	2	12	14	# BR(hh_3 -> Chi_1 Chi_2 )
	1.43732396E-04	2	12	16	# BR(hh_3 -> Chi_1 Chi_3 )
	7.59423763E-06	2	14	14	# BR(hh_3 -> Chi_2 Chi_2 )
	2.79871937E-04	2	14	16	# BR(hh_3 -> Chi_2 Chi_3 )
	6.83353848E-04	2	16	16	# BR(hh_3 -> Chi_3 Chi_3 )
	5.60692951E-07	2	-1	1	# BR(hh_3 -> Fd_1^* Fd_1 )
	2.01676132E-04	2	-3	3	# BR(hh_3 -> Fd_2^* Fd_2 )
	5.39918855E-01	2	-5	5	# BR(hh_3 -> Fd_3^* Fd_3 )
	6.42231459E-08	2	-2	2	# BR(hh_3 -> Fu_1^* Fu_1 )
	1.52541023E-02	2	-4	4	# BR(hh_3 -> Fu_2^* Fu_2 )
DECAY	1000014	4.82785446E-05	# hh_4		
#	BR	NDA	ID1	ID2	
	1.14536099E-03	2	22	22	# BR(hh_4 -> VP VP )
	1.78500434E-02	2	21	21	# BR(hh_4 -> VG VG )
	9.58772877E-03	2	23	23	# BR(hh_4 -> VZ VZ )
	7.30149855E-02	2	24	-24	# BR(hh_4 -> Vwm^* Vwm_virt )
	9.14192788E-09	2	-11	11	# BR(hh_4 -> Cha_1^* Cha_1 )
	7.11053739E-29	2	-11	13	# BR(hh_4 -> Cha_1^* Cha_2 )
	4.60977736E-23	2	-11	15	# BR(hh_4 -> Cha_1^* Cha_3 )
	7.11053739E-29	2	-13	11	# BR(hh_4 -> Cha_2^* Cha_1 )
	4.08388790E-04	2	-13	13	# BR(hh_4 -> Cha_2^* Cha_2 )
	1.37226288E-23	2	-13	15	# BR(hh_4 -> Cha_2^* Cha_3 )
	4.60977736E-23	2	-15	11	# BR(hh_4 -> Cha_3^* Cha_1 )
	1.37226288E-23	2	-15	13	# BR(hh_4 -> Cha_3^* Cha_2 )
	1.17912611E-01	2	-15	15	# BR(hh_4 -> Cha_3^* Cha_3 )
	2.45537335E-25	2	12	12	# BR(hh_4 -> Chi_1 Chi_1 )
	8.79738081E-23	2	12	14	# BR(hh_4 -> Chi_1 Chi_2 )
	1.24346492E-21	2	12	16	# BR(hh_4 -> Chi_1 Chi_3 )
	1.90111838E-13	2	12	1000022	# BR(hh_4 -> Chi_1 Chi_4 )
	5.47608029E-22	2	14	14	# BR(hh_4 -> Chi_2 Chi_2 )
	8.40033495E-21	2	14	16	# BR(hh_4 -> Chi_2 Chi_3 )
	3.48427763E-11	2	14	1000022	# BR(hh_4 -> Chi_2 Chi_4 )
	1.13289161E-21	2	16	16	# BR(hh_4 -> Chi_3 Chi_3 )
	3.24083282E-12	2	16	1000022	# BR(hh_4 -> Chi_3 Chi_4 )
	8.06739583E-07	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1 )
	2.90176863E-04	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2 )
	7.77239851E-01	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3 )
	1.07358309E-08	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1 )
	2.55002708E-03	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2 )
DECAY	1000016	3.58063039E-05	# hh_5		
#	BR	NDA	ID1	ID2	
	1.29617562E-03	2	22	22	# BR(hh_5 -> VP VP )
	1.94746863E-02	2	21	21	# BR(hh_5 -> VG VG )
	1.78285287E-02	2	23	23	# BR(hh_5 -> VZ VZ )
	1.45525488E-01	2	24	-24	# BR(hh_5 -> Vwm^* Vwm_virt )
	8.29778345E-09	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1 )
	2.98577970E-26	2	-11	13	# BR(hh_5 -> Cha_1^* Cha_2 )
	1.58736402E-22	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3 )
	2.98577970E-26	2	-13	11	# BR(hh_5 -> Cha_2^* Cha_1 )
	3.70679224E-04	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2 )
	8.44401969E-22	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3 )
	1.58736402E-22	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1 )
	8.44401969E-22	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2 )
	1.07033677E-01	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3 )
	1.28137384E-23	2	12	12	# BR(hh_5 -> Chi_1 Chi_1 )
	2.65607975E-22	2	12	14	# BR(hh_5 -> Chi_1 Chi_2 )

8.59881240E-21	2		12	16	# BR(hh_5 -> Chi_1 Chi_3 )
2.20656290E-12	2		12	1000022	# BR(hh_5 -> Chi_1 Chi_4 )
2.85749232E-22	2		14	14	# BR(hh_5 -> Chi_2 Chi_2 )
1.86683484E-20	2		14	16	# BR(hh_5 -> Chi_2 Chi_3 )
3.06780602E-12	2		14	1000022	# BR(hh_5 -> Chi_2 Chi_4 )
8.50346038E-20	2		16	16	# BR(hh_5 -> Chi_3 Chi_3 )
2.39138627E-10	2		16	1000022	# BR(hh_5 -> Chi_3 Chi_4 )
7.32247121E-07	2		-1	1	# BR(hh_5 -> Fd_1^* Fd_1 )
2.63382606E-04	2		-3	3	# BR(hh_5 -> Fd_2^* Fd_2 )
7.05643378E-01	2		-5	5	# BR(hh_5 -> Fd_3^* Fd_3 )
1.07913460E-08	2		-2	2	# BR(hh_5 -> Fu_1^* Fu_1 )
2.56325325E-03	2		-4	4	# BR(hh_5 -> Fu_2^* Fu_2 )

DECAY 2000012 4.17619785E-03 # hh\_6

#	BR	NDA	ID1	ID2	
1.56512445E-14	2		22	22	# BR(hh_6 -> VP VP )
6.65444217E-12	2		21	21	# BR(hh_6 -> VG VG )
3.13850092E-11	2		36	36	# BR(hh_6 -> Ah_2 Ah_2 )
1.07467880E-21	2		36	23	# BR(hh_6 -> Ah_2 VZ )
1.42700132E-19	2		-11	11	# BR(hh_6 -> Cha_1^* Cha_1 )
8.72743169E-17	2		-11	13	# BR(hh_6 -> Cha_1^* Cha_2 )
2.33872298E-24	2		-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4 )
8.72743169E-17	2		-13	11	# BR(hh_6 -> Cha_2^* Cha_1 )
1.28529394E-14	2		-13	13	# BR(hh_6 -> Cha_2^* Cha_2 )
8.53756493E-15	2		-13	15	# BR(hh_6 -> Cha_2^* Cha_3 )
2.00025981E-01	2		-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4 )
8.53756493E-15	2		-15	13	# BR(hh_6 -> Cha_3^* Cha_2 )
1.84180747E-12	2		-15	15	# BR(hh_6 -> Cha_3^* Cha_3 )
7.33358516E-24	2		-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4 )
2.33872298E-24	2		1000024	11	# BR(hh_6 -> Cha_4^* Cha_1 )
2.00025981E-01	2		1000024	13	# BR(hh_6 -> Cha_4^* Cha_2 )
7.33358516E-24	2		1000024	15	# BR(hh_6 -> Cha_4^* Cha_3 )
1.94221476E-16	2		12	12	# BR(hh_6 -> Chi_1 Chi_1 )
2.29671001E-14	2		12	14	# BR(hh_6 -> Chi_1 Chi_2 )
7.93387828E-13	2		12	16	# BR(hh_6 -> Chi_1 Chi_3 )
4.03785788E-02	2		12	1000022	# BR(hh_6 -> Chi_1 Chi_4 )
1.07477608E-05	2		12	1000023	# BR(hh_6 -> Chi_1 Chi_5 )
8.88884505E-06	2		12	1000025	# BR(hh_6 -> Chi_1 Chi_6 )
2.87429645E-04	2		12	1000039	# BR(hh_6 -> Chi_1 Chi_7 )
2.15080866E-13	2		14	14	# BR(hh_6 -> Chi_2 Chi_2 )
4.22792107E-12	2		14	16	# BR(hh_6 -> Chi_2 Chi_3 )
2.74054478E-01	2		14	1000022	# BR(hh_6 -> Chi_2 Chi_4 )
7.29464008E-05	2		14	1000023	# BR(hh_6 -> Chi_2 Chi_5 )
6.03297063E-05	2		14	1000025	# BR(hh_6 -> Chi_2 Chi_6 )
1.95082105E-03	2		14	1000039	# BR(hh_6 -> Chi_2 Chi_7 )
1.16960052E-11	2		16	16	# BR(hh_6 -> Chi_3 Chi_3 )
2.80986999E-01	2		16	1000022	# BR(hh_6 -> Chi_3 Chi_4 )
7.47916633E-05	2		16	1000023	# BR(hh_6 -> Chi_3 Chi_5 )
6.18558150E-05	2		16	1000025	# BR(hh_6 -> Chi_3 Chi_6 )
2.00016929E-03	2		16	1000039	# BR(hh_6 -> Chi_3 Chi_7 )
1.25927317E-17	2		-1	1	# BR(hh_6 -> Fd_1^* Fd_1 )
4.52949062E-15	2		-3	3	# BR(hh_6 -> Fd_2^* Fd_2 )
1.21553685E-11	2		-5	5	# BR(hh_6 -> Fd_3^* Fd_3 )
9.46622112E-19	2		-2	2	# BR(hh_6 -> Fu_1^* Fu_1 )
2.24873012E-13	2		-4	4	# BR(hh_6 -> Fu_2^* Fu_2 )
5.87410628E-13	2		25	25	# BR(hh_6 -> hh_1 hh_1 )
6.28876817E-13	2		25	35	# BR(hh_6 -> hh_1 hh_2 )
8.71039936E-23	2		25	1000012	# BR(hh_6 -> hh_1 hh_3 )
1.99421704E-09	2		35	35	# BR(hh_6 -> hh_2 hh_2 )
3.77431627E-17	2		35	1000012	# BR(hh_6 -> hh_2 hh_3 )
3.13850062E-11	2		1000012	1000012	# BR(hh_6 -> hh_3 hh_3 )
4.96711973E-22	2		37	24	# BR(hh_6 -> Hpm_2 Vwm^* )
4.96711973E-22	2		-37	-24	# BR(hh_6 -> Hpm_2^* Vwm )
5.22650630E-10	2		-24	24	# BR(hh_6 -> Vwm Vwm^* )
2.26730245E-10	2		23	23	# BR(hh_6 -> VZ VZ )

DECAY 2000014 1.68603044E-02 # hh\_7

#	BR	NDA	ID1	ID2	
3.23723836E-15	2		22	22	# BR(hh_7 -> VP VP )
1.12185301E-12	2		21	21	# BR(hh_7 -> VG VG )
1.84915906E-12	2		36	36	# BR(hh_7 -> Ah_2 Ah_2 )
3.01430134E-23	2		36	23	# BR(hh_7 -> Ah_2 VZ )
6.39193927E-23	2		1000017	23	# BR(hh_7 -> Ah_3 VZ )
1.77555837E-10	2		1000018	23	# BR(hh_7 -> Ah_4 VZ )
1.15581741E-11	2		1000019	23	# BR(hh_7 -> Ah_5 VZ )

6.58579039E-11	2	2000018	23	# BR(hh_7 -> Ah_6 VZ )
1.65123476E-20	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1 )
6.68361574E-18	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2 )
3.43006396E-15	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3 )
2.79452534E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4 )
6.68361574E-18	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1 )
3.02000380E-16	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2 )
8.59713498E-25	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4 )
3.43006396E-15	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1 )
8.72694301E-14	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3 )
1.15114442E-24	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4 )
2.79452534E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1 )
8.59713498E-25	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2 )
1.15114442E-24	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3 )
4.97902151E-12	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4 )
8.43253189E-16	2	12	12	# BR(hh_7 -> Chi_1 Chi_1 )
6.26947114E-14	2	12	14	# BR(hh_7 -> Chi_1 Chi_2 )
3.63352863E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3 )
2.61867829E-01	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4 )
1.60913955E-04	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5 )
1.47564908E-04	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6 )
2.87428426E-02	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7 )
3.03673859E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8 )
4.61781019E-14	2	14	14	# BR(hh_7 -> Chi_2 Chi_2 )
1.33923126E-12	2	14	16	# BR(hh_7 -> Chi_2 Chi_3 )
8.78904283E-02	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4 )
5.40073842E-05	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5 )
4.95270573E-05	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6 )
9.64693049E-03	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7 )
1.01921743E-02	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8 )
2.71993142E-13	2	16	16	# BR(hh_7 -> Chi_3 Chi_3 )
9.76061102E-03	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4 )
5.99775288E-06	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5 )
5.50019325E-06	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6 )
1.07133323E-03	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7 )
1.13188490E-03	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8 )
2.44027433E-11	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4 )
4.11959811E-11	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5 )
2.68227719E-12	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6 )
8.25302254E-12	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7 )
1.17996775E-11	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5 )
1.46636218E-12	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6 )
2.15418125E-16	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6 )
5.96575948E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1 )
2.14582913E-16	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2 )
5.76080051E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3 )
3.28013625E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1 )
7.79223856E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2 )
1.83216896E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3 )
7.71852497E-11	2	25	25	# BR(hh_7 -> hh_1 hh_1 )
1.33776593E-10	2	25	35	# BR(hh_7 -> hh_1 hh_2 )
1.29026344E-18	2	25	1000012	# BR(hh_7 -> hh_1 hh_3 )
5.71332333E-12	2	25	1000014	# BR(hh_7 -> hh_1 hh_4 )
2.10507891E-13	2	25	1000016	# BR(hh_7 -> hh_1 hh_5 )
1.08934893E-21	2	25	2000012	# BR(hh_7 -> hh_1 hh_6 )
3.86309032E-10	2	35	35	# BR(hh_7 -> hh_2 hh_2 )
6.95363662E-18	2	35	1000012	# BR(hh_7 -> hh_2 hh_3 )
4.00500618E-10	2	35	1000014	# BR(hh_7 -> hh_2 hh_4 )
3.21552688E-11	2	35	1000016	# BR(hh_7 -> hh_2 hh_5 )
1.54888724E-21	2	35	2000012	# BR(hh_7 -> hh_2 hh_6 )
1.84915861E-12	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3 )
3.44090149E-18	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4 )
2.58891907E-19	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5 )
1.07546236E-29	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6 )
1.40206016E-11	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4 )
7.40555872E-12	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5 )
3.70057230E-22	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6 )
2.79941648E-12	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5 )
1.30891184E-22	2	1000016	2000012	# BR(hh_7 -> hh_5 hh_6 )
1.04863963E-12	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2 )
1.91941091E-23	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^* )
1.91941091E-23	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm )
6.51566068E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^* )



6.51566068E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm )	
1.29416803E-11	2	-24	24	# BR(hh_7 -> Vwm Vwm^* )	
6.12132915E-12	2	23	23	# BR(hh_7 -> VZ VZ )	
DECAY	2000016	2.45816248E+01	# hh_8		
#	BR	NDA	ID1	ID2	
1.26186941E-06	2		22	22	# BR(hh_8 -> VP VP )
1.69389078E-04	2		21	21	# BR(hh_8 -> VG VG )
9.27288129E-05	2		36	36	# BR(hh_8 -> Ah_2 Ah_2 )
3.17065124E-24	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3 )
4.89509326E-16	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4 )
2.71983800E-15	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5 )
2.74368216E-13	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6 )
2.17456591E-25	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7 )
7.78649945E-05	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3 )
2.36134010E-14	2	1000017	1000017	1000018	# BR(hh_8 -> Ah_3 Ah_4 )
2.11494329E-14	2	1000017	1000017	1000019	# BR(hh_8 -> Ah_3 Ah_5 )
1.14471801E-13	2	1000017	1000017	2000018	# BR(hh_8 -> Ah_3 Ah_6 )
1.99369121E-27	2	1000017	1000017	2000019	# BR(hh_8 -> Ah_3 Ah_7 )
6.57143798E-04	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4 )
2.19200642E-11	2	1000018	1000018	1000019	# BR(hh_8 -> Ah_4 Ah_5 )
1.44859598E-07	2	1000018	1000018	2000018	# BR(hh_8 -> Ah_4 Ah_6 )
1.79466807E-15	2	1000018	1000018	2000019	# BR(hh_8 -> Ah_4 Ah_7 )
6.79318629E-04	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5 )
1.31586049E-07	2	1000019	1000019	2000018	# BR(hh_8 -> Ah_5 Ah_6 )
8.04960671E-17	2	1000019	1000019	2000019	# BR(hh_8 -> Ah_5 Ah_7 )
4.55339770E-04	2	2000018	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6 )
1.11962767E-14	2	2000018	2000018	2000019	# BR(hh_8 -> Ah_6 Ah_7 )
2.30002839E-05	2	2000019	2000019	2000019	# BR(hh_8 -> Ah_7 Ah_7 )
1.16109794E-14	2		36	23	# BR(hh_8 -> Ah_2 VZ )
7.76082864E-13	2	1000017	1000017	23	# BR(hh_8 -> Ah_3 VZ )
3.27613846E-05	2	1000018	1000018	23	# BR(hh_8 -> Ah_4 VZ )
3.07798814E-05	2	1000019	1000019	23	# BR(hh_8 -> Ah_5 VZ )
9.89449037E-02	2	2000018	2000018	23	# BR(hh_8 -> Ah_6 VZ )
8.91789034E-14	2	2000019	2000019	23	# BR(hh_8 -> Ah_7 VZ )
1.05855769E-10	2	-11	-11	11	# BR(hh_8 -> Cha_1^* Cha_1 )
2.27801464E-30	2	-11	-11	13	# BR(hh_8 -> Cha_1^* Cha_2 )
1.30278205E-27	2	-11	-11	15	# BR(hh_8 -> Cha_1^* Cha_3 )
1.03779495E-17	2	-11	-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4 )
2.27801464E-30	2	-13	-13	11	# BR(hh_8 -> Cha_2^* Cha_1 )
4.72881120E-06	2	-13	-13	13	# BR(hh_8 -> Cha_2^* Cha_2 )
5.79070734E-27	2	-13	-13	15	# BR(hh_8 -> Cha_2^* Cha_3 )
2.28279319E-17	2	-13	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4 )
1.30278205E-27	2	-15	-15	11	# BR(hh_8 -> Cha_3^* Cha_1 )
5.79070734E-27	2	-15	-15	13	# BR(hh_8 -> Cha_3^* Cha_2 )
1.36659440E-03	2	-15	-15	15	# BR(hh_8 -> Cha_3^* Cha_3 )
2.01438572E-16	2	-15	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4 )
1.03779495E-17	2	1000024	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1 )
2.28279319E-17	2	1000024	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2 )
2.01438572E-16	2	1000024	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3 )
2.42519701E-02	2	1000024	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4 )
7.83643420E-30	2		12	12	# BR(hh_8 -> Chi_1 Chi_1 )
4.01924333E-30	2		12	14	# BR(hh_8 -> Chi_1 Chi_2 )
1.97226524E-28	2		12	16	# BR(hh_8 -> Chi_1 Chi_3 )
1.63577449E-17	2		12	1000022	# BR(hh_8 -> Chi_1 Chi_4 )
1.99244658E-17	2		12	1000023	# BR(hh_8 -> Chi_1 Chi_5 )
4.03224996E-17	2		12	1000025	# BR(hh_8 -> Chi_1 Chi_6 )
7.03322235E-18	2		12	1000039	# BR(hh_8 -> Chi_1 Chi_7 )
5.90678849E-18	2		12	1000045	# BR(hh_8 -> Chi_1 Chi_8 )
2.23021040E-21	2		12	1000055	# BR(hh_8 -> Chi_1 Chi_9 )
1.31113818E-28	2		14	14	# BR(hh_8 -> Chi_2 Chi_2 )
6.08291808E-29	2		14	16	# BR(hh_8 -> Chi_2 Chi_3 )
1.82774252E-17	2		14	1000022	# BR(hh_8 -> Chi_2 Chi_4 )
1.72020945E-16	2		14	1000023	# BR(hh_8 -> Chi_2 Chi_5 )
8.11889225E-17	2		14	1000025	# BR(hh_8 -> Chi_2 Chi_6 )
9.12691893E-17	2		14	1000039	# BR(hh_8 -> Chi_2 Chi_7 )
5.70646469E-17	2		14	1000045	# BR(hh_8 -> Chi_2 Chi_8 )
2.78278046E-22	2		14	1000055	# BR(hh_8 -> Chi_2 Chi_9 )
7.42025656E-28	2		16	16	# BR(hh_8 -> Chi_3 Chi_3 )
5.08983532E-16	2		16	1000022	# BR(hh_8 -> Chi_3 Chi_4 )
8.04592147E-17	2		16	1000023	# BR(hh_8 -> Chi_3 Chi_5 )
4.68134495E-17	2		16	1000025	# BR(hh_8 -> Chi_3 Chi_6 )
4.04471401E-15	2		16	1000039	# BR(hh_8 -> Chi_3 Chi_7 )
4.55023451E-15	2		16	1000045	# BR(hh_8 -> Chi_3 Chi_8 )

6.22525627E-21	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9 )	
1.48493196E-01	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4 )	
4.38113598E-05	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5 )	
3.14013275E-05	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6 )	
1.19588557E-02	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7 )	
6.93763595E-02	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8 )	
8.85862857E-03	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5 )	
5.18785747E-09	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6 )	
1.84153344E-05	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7 )	
8.53545600E-05	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8 )	
9.23153307E-03	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6 )	
2.22673220E-05	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7 )	
8.23303486E-05	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8 )	
1.92363612E-03	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7 )	
1.57598893E-01	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8 )	
8.95196655E-02	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8 )	
9.34136045E-09	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1 )	
3.36000165E-06	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2 )	
9.02175728E-03	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3 )	
4.84921376E-12	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1 )	
1.15197961E-06	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2 )	
7.64843227E-02	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3 )	
1.07386608E-01	2	25	25	# BR(hh_8 -> hh_1 hh_1 )	
7.59518233E-02	2	25	35	# BR(hh_8 -> hh_1 hh_2 )	
9.43102991E-10	2	25	1000012	# BR(hh_8 -> hh_1 hh_3 )	
9.80158941E-03	2	25	1000014	# BR(hh_8 -> hh_1 hh_4 )	
6.50245053E-03	2	25	1000016	# BR(hh_8 -> hh_1 hh_5 )	
3.97502721E-13	2	25	2000012	# BR(hh_8 -> hh_1 hh_6 )	
4.66182659E-14	2	25	2000014	# BR(hh_8 -> hh_1 hh_7 )	
6.21455638E-02	2	35	35	# BR(hh_8 -> hh_2 hh_2 )	
8.24276555E-10	2	35	1000012	# BR(hh_8 -> hh_2 hh_3 )	
5.58034609E-03	2	35	1000014	# BR(hh_8 -> hh_2 hh_4 )	
3.64843962E-03	2	35	1000016	# BR(hh_8 -> hh_2 hh_5 )	
1.19992221E-12	2	35	2000012	# BR(hh_8 -> hh_2 hh_6 )	
1.31036571E-13	2	35	2000014	# BR(hh_8 -> hh_2 hh_7 )	
9.27287838E-05	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3 )	
5.44884049E-11	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4 )	
2.51626964E-11	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5 )	
7.99025013E-21	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6 )	
9.13475711E-22	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7 )	
8.52182932E-03	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4 )	
1.31236512E-04	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5 )	
3.27503869E-13	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6 )	
1.07595219E-14	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7 )	
9.92207800E-03	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5 )	
1.25966766E-14	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6 )	
9.06988293E-17	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7 )	
7.78649945E-05	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6 )	
5.36280822E-25	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7 )	
2.30002840E-05	2	2000014	2000014	# BR(hh_8 -> hh_7 hh_7 )	
5.42109512E-05	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2 )	
1.83376850E-27	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3 )	
6.59136717E-27	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4 )	
1.83376850E-27	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2 )	
4.64723971E-05	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3 )	
4.89930641E-27	2	-1000011	2000011	# BR(hh_8 -> Hpm_3^* Hpm_4 )	
6.59136717E-27	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2 )	
4.89930641E-27	2	-2000011	1000011	# BR(hh_8 -> Hpm_4^* Hpm_3 )	
1.17210492E-05	2	-2000011	2000011	# BR(hh_8 -> Hpm_4^* Hpm_4 )	
7.04367977E-16	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^* )	
7.04367977E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm )	
3.74785020E-17	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^* )	
3.74785020E-17	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm )	
5.39613623E-16	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^* )	
5.39613623E-16	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm )	
3.74085476E-04	2	-24	24	# BR(hh_8 -> Vwm Vwm^* )	
1.84933177E-04	2	23	23	# BR(hh_8 -> VZ VZ )	
DECAY #	36	5.14870452E-14	# Ah_2		
	BR	NDA	ID1	ID2	
1.02926946E-04	2		22	22	# BR(Ah_2 -> VP VP )
6.58028054E-02	2		21	21	# BR(Ah_2 -> VG VG )
1.14605373E-09	2		-11	11	# BR(Ah_2 -> Cha_1^* Cha_1 )
1.11421327E-28	2		-11	13	# BR(Ah_2 -> Cha_1^* Cha_2 )

9.97386780E-04	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3 )
1.11421327E-28	2	-13	11	# BR(Ah_2 -> Cha_2^* Cha_1 )
5.11966906E-05	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2 )
4.41035146E-03	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3 )
9.97386780E-04	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1 )
4.41035146E-03	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2 )
1.70006156E-02	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3 )
2.30896008E-05	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1 )
2.25539595E-03	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2 )
1.03301869E-01	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3 )
5.45805237E-03	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2 )
2.01146680E-01	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3 )
4.91133050E-01	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3 )
1.01134785E-07	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1 )
3.63772624E-05	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2 )
9.76121250E-02	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3 )
2.21433468E-08	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1 )
5.26021530E-03	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2 )
DECAY 1000017	4.17619785E-03	# Ah_3		
# BR	NDA	ID1	ID2	
1.37334264E-15	2	22	22	# BR(Ah_3 -> VP VP )
5.97782244E-12	2	21	21	# BR(Ah_3 -> VG VG )
4.78116340E-22	2	25	36	# BR(Ah_3 -> hh_1 Ah_2 )
2.61313616E-21	2	35	36	# BR(Ah_3 -> hh_2 Ah_2 )
1.59295033E-29	2	1000012	36	# BR(Ah_3 -> hh_3 Ah_2 )
7.73689077E-22	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1 )
8.72743169E-17	2	-11	13	# BR(Ah_3 -> Cha_1^* Cha_2 )
2.47125463E-23	2	-11	-1000024	# BR(Ah_3 -> Cha_1^* Cha_4 )
8.72743169E-17	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1 )
7.78962184E-16	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2 )
8.53756493E-15	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3 )
2.00025981E-01	2	-13	-1000024	# BR(Ah_3 -> Cha_2^* Cha_4 )
8.53756493E-15	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2 )
9.98764985E-15	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3 )
1.64708106E-23	2	-15	-1000024	# BR(Ah_3 -> Cha_3^* Cha_4 )
2.47125463E-23	2	1000024	11	# BR(Ah_3 -> Cha_4^* Cha_1 )
2.00025981E-01	2	1000024	13	# BR(Ah_3 -> Cha_4^* Cha_2 )
1.64708106E-23	2	1000024	15	# BR(Ah_3 -> Cha_4^* Cha_3 )
1.94221476E-16	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1 )
2.29671001E-14	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2 )
7.93387828E-13	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3 )
4.03785788E-02	2	12	1000022	# BR(Ah_3 -> Chi_1 Chi_4 )
1.07477609E-05	2	12	1000023	# BR(Ah_3 -> Chi_1 Chi_5 )
8.88884507E-06	2	12	1000025	# BR(Ah_3 -> Chi_1 Chi_6 )
2.87429647E-04	2	12	1000039	# BR(Ah_3 -> Chi_1 Chi_7 )
2.15080866E-13	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2 )
4.22792107E-12	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3 )
2.74054478E-01	2	14	1000022	# BR(Ah_3 -> Chi_2 Chi_4 )
7.29464013E-05	2	14	1000023	# BR(Ah_3 -> Chi_2 Chi_5 )
6.03297061E-05	2	14	1000025	# BR(Ah_3 -> Chi_2 Chi_6 )
1.95082106E-03	2	14	1000039	# BR(Ah_3 -> Chi_2 Chi_7 )
1.16960052E-11	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3 )
2.80986999E-01	2	16	1000022	# BR(Ah_3 -> Chi_3 Chi_4 )
7.47916636E-05	2	16	1000023	# BR(Ah_3 -> Chi_3 Chi_5 )
6.18558149E-05	2	16	1000025	# BR(Ah_3 -> Chi_3 Chi_6 )
2.00016931E-03	2	16	1000039	# BR(Ah_3 -> Chi_3 Chi_7 )
6.82750525E-20	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1 )
2.45579125E-17	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2 )
6.59336098E-14	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3 )
4.92215752E-19	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1 )
1.16930552E-13	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2 )
2.05266793E-10	2	25	23	# BR(Ah_3 -> hh_1 VZ )
5.64646041E-10	2	35	23	# BR(Ah_3 -> hh_2 VZ )
3.79439300E-18	2	1000012	23	# BR(Ah_3 -> hh_3 VZ )
9.15971873E-10	2	1000014	23	# BR(Ah_3 -> hh_4 VZ )
2.46551542E-10	2	1000016	23	# BR(Ah_3 -> hh_5 VZ )
2.54849608E-21	2	37	24	# BR(Ah_3 -> Hpm_2 Vwm^* )
2.54849608E-21	2	-37	-24	# BR(Ah_3 -> Hpm_2^* Vwm )
DECAY 1000018	1.24666559E-03	# Ah_4		
# BR	NDA	ID1	ID2	
1.69684249E-06	2	22	22	# BR(Ah_4 -> VP VP )
1.55449378E-06	2	21	21	# BR(Ah_4 -> VG VG )
7.16519769E-11	2	25	36	# BR(Ah_4 -> hh_1 Ah_2 )

3.20922470E-12	2	35	36	# BR(Ah_4 -> hh_2 Ah_2 )
1.18271070E-19	2	1000012	36	# BR(Ah_4 -> hh_3 Ah_2 )
5.73185272E-13	2	1000014	36	# BR(Ah_4 -> hh_4 Ah_2 )
1.15184037E-10	2	1000016	36	# BR(Ah_4 -> hh_5 Ah_2 )
3.81902770E-12	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1 )
4.54516795E-28	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2 )
8.63138766E-25	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3 )
3.81819638E-11	2	-11	-1000024	# BR(Ah_4 -> Cha_1^* Cha_4 )
4.54516795E-28	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1 )
1.70604384E-07	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2 )
1.85901637E-25	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3 )
4.90316190E-12	2	-13	-1000024	# BR(Ah_4 -> Cha_2^* Cha_4 )
8.63138766E-25	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1 )
1.85901637E-25	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2 )
4.93013651E-05	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3 )
7.47015727E-14	2	-15	-1000024	# BR(Ah_4 -> Cha_3^* Cha_4 )
3.81819638E-11	2	1000024	11	# BR(Ah_4 -> Cha_4^* Cha_1 )
4.90316190E-12	2	1000024	13	# BR(Ah_4 -> Cha_4^* Cha_2 )
7.47015727E-14	2	1000024	15	# BR(Ah_4 -> Cha_4^* Cha_3 )
1.53612855E-25	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1 )
1.41007153E-24	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2 )
2.56720174E-22	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3 )
7.98147285E-11	2	12	1000022	# BR(Ah_4 -> Chi_1 Chi_4 )
7.93310423E-12	2	12	1000023	# BR(Ah_4 -> Chi_1 Chi_5 )
4.15049025E-13	2	12	1000025	# BR(Ah_4 -> Chi_1 Chi_6 )
2.22715523E-12	2	12	1000039	# BR(Ah_4 -> Chi_1 Chi_7 )
1.24118979E-16	2	12	1000045	# BR(Ah_4 -> Chi_1 Chi_8 )
1.45073329E-24	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2 )
5.50395537E-23	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3 )
1.53881857E-10	2	14	1000022	# BR(Ah_4 -> Chi_2 Chi_4 )
9.65262595E-13	2	14	1000023	# BR(Ah_4 -> Chi_2 Chi_5 )
3.18869118E-11	2	14	1000025	# BR(Ah_4 -> Chi_2 Chi_6 )
3.11270446E-12	2	14	1000039	# BR(Ah_4 -> Chi_2 Chi_7 )
6.89170358E-15	2	14	1000045	# BR(Ah_4 -> Chi_2 Chi_8 )
6.83976064E-22	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3 )
2.20118289E-11	2	16	1000022	# BR(Ah_4 -> Chi_3 Chi_4 )
5.05025731E-12	2	16	1000023	# BR(Ah_4 -> Chi_3 Chi_5 )
1.73475694E-11	2	16	1000025	# BR(Ah_4 -> Chi_3 Chi_6 )
2.47070931E-13	2	16	1000039	# BR(Ah_4 -> Chi_3 Chi_7 )
5.94508206E-15	2	16	1000045	# BR(Ah_4 -> Chi_3 Chi_8 )
9.99168519E-01	2	1000022	1000022	# BR(Ah_4 -> Chi_4 Chi_4 )
3.37014344E-10	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1 )
1.21220978E-07	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2 )
3.25467738E-04	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3 )
1.84956798E-13	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1 )
4.39383142E-08	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2 )
1.08480472E-29	2	25	25	# BR(Ah_4 -> hh_1 hh_1 )
1.38616309E-29	2	25	35	# BR(Ah_4 -> hh_1 hh_2 )
2.91724715E-29	2	25	1000014	# BR(Ah_4 -> hh_1 hh_4 )
8.56033301E-30	2	35	35	# BR(Ah_4 -> hh_2 hh_2 )
1.14934663E-29	2	35	1000014	# BR(Ah_4 -> hh_2 hh_4 )
2.27012526E-30	2	1000014	1000016	# BR(Ah_4 -> hh_4 hh_5 )
3.35088389E-04	2	25	23	# BR(Ah_4 -> hh_1 VZ )
9.24820905E-05	2	35	23	# BR(Ah_4 -> hh_2 VZ )
3.96830101E-11	2	1000012	23	# BR(Ah_4 -> hh_3 VZ )
1.62157265E-05	2	1000014	23	# BR(Ah_4 -> hh_4 VZ )
9.33799428E-06	2	1000016	23	# BR(Ah_4 -> hh_5 VZ )
4.28683514E-11	2	37	24	# BR(Ah_4 -> Hpm_2 VWm^* )
4.28683514E-11	2	-37	-24	# BR(Ah_4 -> Hpm_2^* VWm )
DECAY	1000019	1.04030547E-03	# Ah_5	
#	BR	NDA	ID1	ID2
1.92539933E-06	2	22	22	# BR(Ah_5 -> VP VP )
1.80703315E-06	2	21	21	# BR(Ah_5 -> VG VG )
9.81158981E-10	2	25	36	# BR(Ah_5 -> hh_1 Ah_2 )
5.55918238E-11	2	35	36	# BR(Ah_5 -> hh_2 Ah_2 )
1.92319609E-18	2	1000012	36	# BR(Ah_5 -> hh_3 Ah_2 )
1.79636457E-10	2	1000014	36	# BR(Ah_5 -> hh_4 Ah_2 )
1.62290265E-09	2	1000016	36	# BR(Ah_5 -> hh_5 Ah_2 )
4.30388144E-12	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1 )
7.39028144E-27	2	-11	13	# BR(Ah_5 -> Cha_1^* Cha_2 )
1.08861979E-26	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3 )
2.87317547E-12	2	-11	-1000024	# BR(Ah_5 -> Cha_1^* Cha_4 )
7.39028144E-27	2	-13	11	# BR(Ah_5 -> Cha_2^* Cha_1 )

1.92263869E-07	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2 )
4.87504863E-27	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3 )
5.73419716E-12	2	-13	-1000024	# BR(Ah_5 -> Cha_2^* Cha_4 )
1.08861979E-26	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1 )
4.87504863E-27	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2 )
5.55605410E-05	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3 )
8.61370982E-13	2	-15	-1000024	# BR(Ah_5 -> Cha_3^* Cha_4 )
2.87317547E-12	2	1000024	11	# BR(Ah_5 -> Cha_4^* Cha_1 )
5.73419716E-12	2	1000024	13	# BR(Ah_5 -> Cha_4^* Cha_2 )
8.61370982E-13	2	1000024	15	# BR(Ah_5 -> Cha_4^* Cha_3 )
2.72944977E-25	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1 )
2.39916255E-24	2	12	14	# BR(Ah_5 -> Chi_1 Chi_2 )
2.35727344E-23	2	12	16	# BR(Ah_5 -> Chi_1 Chi_3 )
4.12561966E-11	2	12	1000022	# BR(Ah_5 -> Chi_1 Chi_4 )
4.44629425E-13	2	12	1000023	# BR(Ah_5 -> Chi_1 Chi_5 )
1.07505115E-11	2	12	1000025	# BR(Ah_5 -> Chi_1 Chi_6 )
8.90391426E-13	2	12	1000039	# BR(Ah_5 -> Chi_1 Chi_7 )
2.87312594E-15	2	12	1000045	# BR(Ah_5 -> Chi_1 Chi_8 )
5.89261512E-24	2	14	14	# BR(Ah_5 -> Chi_2 Chi_2 )
4.29267925E-22	2	14	16	# BR(Ah_5 -> Chi_2 Chi_3 )
3.66512340E-11	2	14	1000022	# BR(Ah_5 -> Chi_2 Chi_4 )
4.50113364E-11	2	14	1000023	# BR(Ah_5 -> Chi_2 Chi_5 )
2.70849547E-12	2	14	1000025	# BR(Ah_5 -> Chi_2 Chi_6 )
5.52379737E-13	2	14	1000039	# BR(Ah_5 -> Chi_2 Chi_7 )
1.16177277E-14	2	14	1000045	# BR(Ah_5 -> Chi_2 Chi_8 )
4.79607380E-22	2	16	16	# BR(Ah_5 -> Chi_3 Chi_3 )
3.53106124E-11	2	16	1000022	# BR(Ah_5 -> Chi_3 Chi_4 )
2.30981124E-11	2	16	1000023	# BR(Ah_5 -> Chi_3 Chi_5 )
4.03427142E-12	2	16	1000025	# BR(Ah_5 -> Chi_3 Chi_6 )
6.50990602E-13	2	16	1000039	# BR(Ah_5 -> Chi_3 Chi_7 )
7.50867640E-15	2	16	1000045	# BR(Ah_5 -> Chi_3 Chi_8 )
9.99061521E-01	2	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4 )
3.79800799E-10	2	-1	1	# BR(Ah_5 -> Fd_1^* Fd_1 )
1.36610876E-07	2	-3	3	# BR(Ah_5 -> Fd_2^* Fd_2 )
3.66788308E-04	2	-5	5	# BR(Ah_5 -> Fd_3^* Fd_3 )
2.08411367E-13	2	-2	2	# BR(Ah_5 -> Fu_1^* Fu_1 )
4.95101792E-08	2	-4	4	# BR(Ah_5 -> Fu_2^* Fu_2 )
1.90532698E-29	2	25	35	# BR(Ah_5 -> hh_1 hh_2 )
2.35037539E-29	2	25	1000014	# BR(Ah_5 -> hh_1 hh_4 )
2.06418549E-29	2	25	1000016	# BR(Ah_5 -> hh_1 hh_5 )
1.83765541E-30	2	35	1000014	# BR(Ah_5 -> hh_2 hh_4 )
4.52331620E-29	2	35	1000016	# BR(Ah_5 -> hh_2 hh_5 )
2.04272719E-30	2	1000014	1000014	# BR(Ah_5 -> hh_4 hh_4 )
1.64230692E-29	2	1000016	1000016	# BR(Ah_5 -> hh_5 hh_5 )
3.78588838E-04	2	25	23	# BR(Ah_5 -> hh_1 VZ )
1.04532942E-04	2	35	23	# BR(Ah_5 -> hh_2 VZ )
6.96147414E-10	2	1000012	23	# BR(Ah_5 -> hh_3 VZ )
1.83320645E-05	2	1000014	23	# BR(Ah_5 -> hh_4 VZ )
1.05600685E-05	2	1000016	23	# BR(Ah_5 -> hh_5 VZ )
6.59082438E-10	2	37	24	# BR(Ah_5 -> Hpm_2 Vwm^* )
6.59082438E-10	2	-37	-24	# BR(Ah_5 -> Hpm_2^* Vwm )
DECAY 2000018	1.01846702E+00	# Ah_6		
#	BR	NDA	ID1	ID2
1.34676390E-05	2	22	22	# BR(Ah_6 -> VP VP )
2.04918579E-05	2	21	21	# BR(Ah_6 -> VG VG )
4.51518797E-13	2	25	36	# BR(Ah_6 -> hh_1 Ah_2 )
2.32176147E-15	2	35	36	# BR(Ah_6 -> hh_2 Ah_2 )
1.96666608E-22	2	1000012	36	# BR(Ah_6 -> hh_3 Ah_2 )
1.13298864E-13	2	1000014	36	# BR(Ah_6 -> hh_4 Ah_2 )
1.32565733E-12	2	1000016	36	# BR(Ah_6 -> hh_5 Ah_2 )
1.48497649E-11	2	-11	11	# BR(Ah_6 -> Cha_1^* Cha_1 )
6.08735536E-30	2	-11	13	# BR(Ah_6 -> Cha_1^* Cha_2 )
4.44354282E-28	2	-11	15	# BR(Ah_6 -> Cha_1^* Cha_3 )
7.23412730E-16	2	-11	-1000024	# BR(Ah_6 -> Cha_1^* Cha_4 )
6.08735536E-30	2	-13	11	# BR(Ah_6 -> Cha_2^* Cha_1 )
6.63371732E-07	2	-13	13	# BR(Ah_6 -> Cha_2^* Cha_2 )
1.18001905E-28	2	-13	15	# BR(Ah_6 -> Cha_2^* Cha_3 )
2.85376143E-14	2	-13	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4 )
4.44354282E-28	2	-15	11	# BR(Ah_6 -> Cha_3^* Cha_1 )
1.18001905E-28	2	-15	13	# BR(Ah_6 -> Cha_3^* Cha_2 )
1.91702261E-04	2	-15	15	# BR(Ah_6 -> Cha_3^* Cha_3 )
1.33690396E-14	2	-15	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4 )
7.23412730E-16	2	1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1 )

2.85376143E-14	2	1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2 )
1.33690396E-14	2	1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3 )
5.71612450E-28	2	12	12	# BR(Ah_6 -> Chi_1 Chi_1 )
8.98401048E-29	2	12	14	# BR(Ah_6 -> Chi_1 Chi_2 )
1.20957655E-26	2	12	16	# BR(Ah_6 -> Chi_1 Chi_3 )
3.57730852E-16	2	12	1000022	# BR(Ah_6 -> Chi_1 Chi_4 )
8.53770375E-15	2	12	1000023	# BR(Ah_6 -> Chi_1 Chi_5 )
1.74246317E-14	2	12	1000025	# BR(Ah_6 -> Chi_1 Chi_6 )
1.24423585E-17	2	12	1000039	# BR(Ah_6 -> Chi_1 Chi_7 )
3.90972459E-18	2	12	1000045	# BR(Ah_6 -> Chi_1 Chi_8 )
2.37702070E-28	2	14	14	# BR(Ah_6 -> Chi_2 Chi_2 )
3.13179266E-25	2	14	16	# BR(Ah_6 -> Chi_2 Chi_3 )
1.14459609E-14	2	14	1000022	# BR(Ah_6 -> Chi_2 Chi_4 )
7.03852627E-14	2	14	1000023	# BR(Ah_6 -> Chi_2 Chi_5 )
3.42518074E-14	2	14	1000025	# BR(Ah_6 -> Chi_2 Chi_6 )
6.96459570E-16	2	14	1000039	# BR(Ah_6 -> Chi_2 Chi_7 )
3.79420371E-17	2	14	1000045	# BR(Ah_6 -> Chi_2 Chi_8 )
4.77672764E-25	2	16	16	# BR(Ah_6 -> Chi_3 Chi_3 )
8.74447075E-14	2	16	1000022	# BR(Ah_6 -> Chi_3 Chi_4 )
2.48475519E-14	2	16	1000023	# BR(Ah_6 -> Chi_3 Chi_5 )
2.75037153E-14	2	16	1000025	# BR(Ah_6 -> Chi_3 Chi_6 )
4.35434609E-16	2	16	1000039	# BR(Ah_6 -> Chi_3 Chi_7 )
4.05673195E-17	2	16	1000045	# BR(Ah_6 -> Chi_3 Chi_8 )
9.96496152E-01	2	1000022	1000022	# BR(Ah_6 -> Chi_4 Chi_4 )
1.31043399E-09	2	-1	1	# BR(Ah_6 -> Fd_1^* Fd_1 )
4.71351130E-07	2	-3	3	# BR(Ah_6 -> Fd_2^* Fd_2 )
1.26554337E-03	2	-5	5	# BR(Ah_6 -> Fd_3^* Fd_3 )
7.05872856E-13	2	-2	2	# BR(Ah_6 -> Fu_1^* Fu_1 )
1.67687103E-07	2	-4	4	# BR(Ah_6 -> Fu_2^* Fu_2 )
1.46616716E-03	2	25	23	# BR(Ah_6 -> hh_1 VZ )
4.28645076E-04	2	35	23	# BR(Ah_6 -> hh_2 VZ )
3.57260133E-12	2	1000012	23	# BR(Ah_6 -> hh_3 VZ )
7.35438669E-05	2	1000014	23	# BR(Ah_6 -> hh_4 VZ )
4.29833233E-05	2	1000016	23	# BR(Ah_6 -> hh_5 VZ )
3.32055083E-13	2	37	24	# BR(Ah_6 -> Hpm_2 Vwm^* )
3.32055083E-13	2	-37	-24	# BR(Ah_6 -> Hpm_2^* Vwm )
DECAY 2000019	1.68603044E-02	# Ah_7		
# BR	NDA	ID1	ID2	
2.31491160E-14	2	22	22	# BR(Ah_7 -> VP VP )
1.67752536E-12	2	21	21	# BR(Ah_7 -> VG VG )
1.29579950E-21	2	25	36	# BR(Ah_7 -> hh_1 Ah_2 )
1.34857467E-21	2	25	1000017	# BR(Ah_7 -> hh_1 Ah_3 )
2.67565986E-11	2	25	1000018	# BR(Ah_7 -> hh_1 Ah_4 )
1.84341730E-12	2	25	1000019	# BR(Ah_7 -> hh_1 Ah_5 )
5.61352336E-22	2	35	36	# BR(Ah_7 -> hh_2 Ah_2 )
6.65462573E-22	2	35	1000017	# BR(Ah_7 -> hh_2 Ah_3 )
1.93909082E-10	2	35	1000018	# BR(Ah_7 -> hh_2 Ah_4 )
1.23056005E-11	2	35	1000019	# BR(Ah_7 -> hh_2 Ah_5 )
3.57085361E-30	2	1000012	36	# BR(Ah_7 -> hh_3 Ah_2 )
4.29908365E-30	2	1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3 )
1.24386915E-21	2	1000014	36	# BR(Ah_7 -> hh_4 Ah_2 )
9.43146847E-22	2	1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3 )
4.30541028E-23	2	1000016	36	# BR(Ah_7 -> hh_5 Ah_2 )
9.67133550E-23	2	1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3 )
1.57483532E-20	2	-11	11	# BR(Ah_7 -> Cha_1^* Cha_1 )
6.68361573E-18	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2 )
3.43006396E-15	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3 )
2.79452534E-01	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4 )
6.68361573E-18	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1 )
3.80465984E-16	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2 )
1.62153314E-23	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4 )
3.43006396E-15	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1 )
1.09951026E-13	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3 )
3.83397161E-24	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4 )
2.79452534E-01	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1 )
1.62153314E-23	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2 )
3.83397161E-24	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3 )
2.42766009E-10	2	1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4 )
8.43253188E-16	2	12	12	# BR(Ah_7 -> Chi_1 Chi_1 )
6.26947113E-14	2	12	14	# BR(Ah_7 -> Chi_1 Chi_2 )
3.63352863E-12	2	12	16	# BR(Ah_7 -> Chi_1 Chi_3 )
2.61867829E-01	2	12	1000022	# BR(Ah_7 -> Chi_1 Chi_4 )
1.60913955E-04	2	12	1000023	# BR(Ah_7 -> Chi_1 Chi_5 )

1.47564908E-04	2		12	1000025	# BR(Ah_7 -> Chi_1 Chi_6 )
2.87428425E-02	2		12	1000039	# BR(Ah_7 -> Chi_1 Chi_7 )
3.03673859E-02	2		12	1000045	# BR(Ah_7 -> Chi_1 Chi_8 )
4.61781018E-14	2		14	14	# BR(Ah_7 -> Chi_2 Chi_2 )
1.33923126E-12	2		14	16	# BR(Ah_7 -> Chi_2 Chi_3 )
8.78904282E-02	2		14	1000022	# BR(Ah_7 -> Chi_2 Chi_4 )
5.40073842E-05	2		14	1000023	# BR(Ah_7 -> Chi_2 Chi_5 )
4.95270573E-05	2		14	1000025	# BR(Ah_7 -> Chi_2 Chi_6 )
9.64693048E-03	2		14	1000039	# BR(Ah_7 -> Chi_2 Chi_7 )
1.01921743E-02	2		14	1000045	# BR(Ah_7 -> Chi_2 Chi_8 )
2.71993142E-13	2		16	16	# BR(Ah_7 -> Chi_3 Chi_3 )
9.76061101E-03	2		16	1000022	# BR(Ah_7 -> Chi_3 Chi_4 )
5.99775286E-06	2		16	1000023	# BR(Ah_7 -> Chi_3 Chi_5 )
5.50019325E-06	2		16	1000025	# BR(Ah_7 -> Chi_3 Chi_6 )
1.07133322E-03	2		16	1000039	# BR(Ah_7 -> Chi_3 Chi_7 )
1.13188490E-03	2		16	1000045	# BR(Ah_7 -> Chi_3 Chi_8 )
4.99173277E-11	2	1000022		1000022	# BR(Ah_7 -> Chi_4 Chi_4 )
2.05679168E-10	2	1000022		1000023	# BR(Ah_7 -> Chi_4 Chi_5 )
1.30314413E-11	2	1000022		1000025	# BR(Ah_7 -> Chi_4 Chi_6 )
3.30895692E-12	2	1000022		1000039	# BR(Ah_7 -> Chi_4 Chi_7 )
4.40349625E-10	2	1000023		1000023	# BR(Ah_7 -> Chi_5 Chi_5 )
5.56846327E-11	2	1000023		1000025	# BR(Ah_7 -> Chi_5 Chi_6 )
3.66756902E-12	2	1000025		1000025	# BR(Ah_7 -> Chi_6 Chi_6 )
7.51577868E-19	2	-1		1	# BR(Ah_7 -> Fd_1^* Fd_1 )
2.70335680E-16	2	-3		3	# BR(Ah_7 -> Fd_2^* Fd_2 )
7.25862722E-13	2	-5		5	# BR(Ah_7 -> Fd_3^* Fd_3 )
2.30248918E-20	2	-2		2	# BR(Ah_7 -> Fu_1^* Fu_1 )
5.46979987E-15	2	-4		4	# BR(Ah_7 -> Fu_2^* Fu_2 )
3.17354285E-10	2	-6		6	# BR(Ah_7 -> Fu_3^* Fu_3 )
3.06496881E-10	2		25	23	# BR(Ah_7 -> hh_1 VZ )
1.59839845E-10	2		35	23	# BR(Ah_7 -> hh_2 VZ )
1.08898022E-18	2	1000012		23	# BR(Ah_7 -> hh_3 VZ )
3.79013723E-10	2	1000014		23	# BR(Ah_7 -> hh_4 VZ )
3.14194803E-11	2	1000016		23	# BR(Ah_7 -> hh_5 VZ )
8.87140213E-24	2	2000012		23	# BR(Ah_7 -> hh_6 VZ )
1.57030049E-22	2		37	24	# BR(Ah_7 -> Hpm_2 VWm^* )
1.57030049E-22	2		-37	-24	# BR(Ah_7 -> Hpm_2^* VWm )
7.49003040E-23	2	1000011		24	# BR(Ah_7 -> Hpm_3 VWm^* )
7.49003040E-23	2	-1000011		-24	# BR(Ah_7 -> Hpm_3^* VWm )
DECAY #	2000020	2.65306876E+01	# Ah_8		
#	BR	NDA	ID1	ID2	
1.25279298E-06	2		22	22	# BR(Ah_8 -> VP VP )
2.44927336E-04	2		21	21	# BR(Ah_8 -> VG VG )
7.72022653E-13	2		25	36	# BR(Ah_8 -> hh_1 Ah_2 )
1.81833093E-12	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3 )
2.95236815E-04	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4 )
1.53955958E-04	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5 )
5.95958899E-02	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6 )
2.04937353E-16	2		25	2000019	# BR(Ah_8 -> hh_1 Ah_7 )
1.16664712E-13	2		35	36	# BR(Ah_8 -> hh_2 Ah_2 )
4.23098217E-14	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3 )
1.62719492E-06	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4 )
3.17840185E-07	2		35	1000019	# BR(Ah_8 -> hh_2 Ah_5 )
4.09161950E-02	2		35	2000018	# BR(Ah_8 -> hh_2 Ah_6 )
1.36599799E-13	2		35	2000019	# BR(Ah_8 -> hh_2 Ah_7 )
3.10642008E-22	2	1000012		36	# BR(Ah_8 -> hh_3 Ah_2 )
1.24436297E-21	2	1000012		1000017	# BR(Ah_8 -> hh_3 Ah_3 )
3.15740487E-14	2	1000012		1000018	# BR(Ah_8 -> hh_3 Ah_4 )
1.02585274E-13	2	1000012		1000019	# BR(Ah_8 -> hh_3 Ah_5 )
4.47281169E-10	2	1000012		2000018	# BR(Ah_8 -> hh_3 Ah_6 )
1.06873478E-21	2	1000012		2000019	# BR(Ah_8 -> hh_3 Ah_7 )
4.84947985E-14	2	1000014		36	# BR(Ah_8 -> hh_4 Ah_2 )
3.27857843E-13	2	1000014		1000017	# BR(Ah_8 -> hh_4 Ah_3 )
3.90610192E-03	2	1000014		1000018	# BR(Ah_8 -> hh_4 Ah_4 )
7.51581410E-05	2	1000014		1000019	# BR(Ah_8 -> hh_4 Ah_5 )
1.19951174E-03	2	1000014		2000018	# BR(Ah_8 -> hh_4 Ah_6 )
1.60974592E-15	2	1000014		2000019	# BR(Ah_8 -> hh_4 Ah_7 )
5.46396379E-14	2	1000016		36	# BR(Ah_8 -> hh_5 Ah_2 )
2.38775730E-15	2	1000016		1000017	# BR(Ah_8 -> hh_5 Ah_3 )
3.06356374E-05	2	1000016		1000018	# BR(Ah_8 -> hh_5 Ah_4 )
4.23466809E-03	2	1000016		1000019	# BR(Ah_8 -> hh_5 Ah_5 )
8.37076803E-04	2	1000016		2000018	# BR(Ah_8 -> hh_5 Ah_6 )
7.09340650E-16	2	1000016		2000019	# BR(Ah_8 -> hh_5 Ah_7 )

1.05831952E-24	2	2000012	36	# BR(Ah_8 -> hh_6 Ah_2 )
1.58451307E-24	2	2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3 )
2.90634021E-14	2	2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4 )
2.50457175E-14	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5 )
1.88597952E-13	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6 )
9.17807597E-25	2	2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7 )
6.67723431E-26	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2 )
6.02895818E-26	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3 )
1.20985286E-14	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4 )
7.04306638E-16	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5 )
4.32674419E-15	2	2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6 )
1.81207864E-27	2	2000014	2000019	# BR(Ah_8 -> hh_7 Ah_7 )
9.90851240E-11	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1 )
2.28020494E-30	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2 )
1.29909398E-27	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3 )
7.64013478E-17	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4 )
2.28020494E-30	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1 )
4.42635179E-06	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2 )
5.76684114E-27	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3 )
3.95874744E-16	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4 )
1.29909398E-27	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1 )
5.76684114E-27	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2 )
1.27920560E-03	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3 )
3.40558915E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4 )
7.64013478E-17	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1 )
3.95874744E-16	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2 )
3.40558915E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3 )
1.69294041E-02	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4 )
1.03258577E-29	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1 )
3.66613655E-30	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2 )
1.75687546E-28	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3 )
2.14400017E-17	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4 )
5.58756485E-17	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5 )
1.17232348E-16	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6 )
8.01905047E-18	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7 )
5.55217202E-18	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8 )
1.69590398E-28	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2 )
1.13782655E-28	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3 )
1.09806315E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4 )
4.67063717E-16	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5 )
2.36379328E-16	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6 )
1.53531614E-17	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7 )
1.40334621E-17	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8 )
1.06297950E-27	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3 )
1.04483482E-14	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4 )
2.53723786E-16	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5 )
1.16772675E-16	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6 )
2.55499600E-16	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7 )
1.21680153E-15	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8 )
2.13207963E-01	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4 )
4.01408117E-05	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5 )
2.93432686E-05	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6 )
2.14376625E-02	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7 )
5.93624225E-02	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8 )
4.99931880E-03	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5 )
2.34377609E-10	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6 )
1.00053823E-05	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7 )
5.09189645E-05	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8 )
5.11136003E-03	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6 )
1.29405054E-05	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7 )
4.83020650E-05	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8 )
8.85634936E-02	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7 )
1.10043993E-01	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8 )
1.72049716E-03	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8 )
8.74387701E-09	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1 )
3.14509243E-06	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2 )
8.44493660E-03	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3 )
4.81570460E-12	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1 )
1.14402065E-06	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2 )
8.63038491E-02	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3 )
1.96429004E-01	2	25	23	# BR(Ah_8 -> hh_1 VZ )
5.46029187E-02	2	35	23	# BR(Ah_8 -> hh_2 VZ )
2.13136622E-10	2	1000012	23	# BR(Ah_8 -> hh_3 VZ )



1.20247406E-02	2	1000014	23	# BR(Ah_8 -> hh_4 VZ )	
7.84629872E-03	2	1000016	23	# BR(Ah_8 -> hh_5 VZ )	
5.02333160E-13	2	2000012	23	# BR(Ah_8 -> hh_6 VZ )	
3.15019529E-14	2	2000014	23	# BR(Ah_8 -> hh_7 VZ )	
1.14837002E-27	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3 )	
3.09508794E-27	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4 )	
1.14837002E-27	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2 )	
9.07937521E-28	2	-1000011	2000011	# BR(Ah_8 -> Hpm_3^* Hpm_4 )	
3.09508794E-27	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2 )	
9.07937521E-28	2	-2000011	1000011	# BR(Ah_8 -> Hpm_4^* Hpm_3 )	
1.32662336E-16	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^* )	
1.32662336E-16	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm )	
1.46784263E-16	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^* )	
1.46784263E-16	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm )	
3.44160371E-16	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^* )	
3.44160371E-16	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm )	
DECAY	37	1.08299702E-05	# Hpm_2		
#	BR	NDA	ID1	ID2	
3.98926771E-11	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1 )
2.79267683E-10	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2 )
4.93733931E-10	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3 )
5.77957274E-11	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1 )
4.04783208E-10	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2 )
6.43047860E-10	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3 )
9.80552213E-11	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1 )
6.86589740E-10	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2 )
6.66665421E-10	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3 )
2.10359713E-24	2		1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1 )
1.94544539E-23	2		1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2 )
9.99999997E-01	2		1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3 )
1.02151398E-15	2		-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1 )
1.66913081E-14	2		-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2 )
1.03304241E-14	2		-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3 )
1.96316986E-12	2		-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1 )
3.69584057E-11	2		-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2 )
1.55928531E-12	2		-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3 )
DECAY	1000011	3.67495302E-04	# Hpm_3		
#	BR	NDA	ID1	ID2	
7.24224054E-20	2		36	-24	# BR(Hpm_3 -> Ah_2 Vwm )
7.42309145E-13	2		12	11	# BR(Hpm_3 -> Chi_1 Cha_1 )
5.35323623E-12	2		12	13	# BR(Hpm_3 -> Chi_1 Cha_2 )
1.02203896E-11	2		12	15	# BR(Hpm_3 -> Chi_1 Cha_3 )
4.15859387E-02	2		12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4 )
5.03814350E-12	2		14	11	# BR(Hpm_3 -> Chi_2 Cha_1 )
4.08687230E-11	2		14	13	# BR(Hpm_3 -> Chi_2 Cha_2 )
6.40895304E-11	2		14	15	# BR(Hpm_3 -> Chi_2 Cha_3 )
2.82248981E-01	2		14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4 )
5.16558900E-12	2		16	11	# BR(Hpm_3 -> Chi_3 Cha_1 )
7.32566058E-12	2		16	13	# BR(Hpm_3 -> Chi_3 Cha_2 )
6.66722167E-11	2		16	15	# BR(Hpm_3 -> Chi_3 Cha_3 )
2.89388792E-01	2		16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4 )
2.77774408E-24	2		1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1 )
3.74313946E-01	2		1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2 )
7.68282148E-23	2		1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3 )
1.96632183E-22	2		1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1 )
1.05344235E-04	2		1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2 )
4.48894791E-24	2		1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3 )
1.48699335E-23	2		1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1 )
8.83748954E-05	2		1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2 )
7.49983656E-24	2		1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3 )
3.58645702E-25	2		1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1 )
1.22685499E-02	2		1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2 )
4.75243499E-24	2		1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3 )
3.32443861E-17	2		-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1 )
5.46486176E-16	2		-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2 )
3.38644096E-16	2		-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3 )
6.17256831E-14	2		-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1 )
1.16244393E-12	2		-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2 )
5.10279419E-14	2		-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3 )
1.24194791E-12	2		-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1 )
5.87345098E-11	2		-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2 )
3.50617014E-08	2		-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3 )
4.65187852E-21	2		37	25	# BR(Hpm_3 -> Hpm_2 hh_1 )

1.87337124E-18	2		37	35	# BR(Hpm_3 -> Hpm_2 hh_2 )
3.50039197E-09	2		25	-24	# BR(Hpm_3 -> hh_1 Vwm )
9.03050638E-09	2		35	-24	# BR(Hpm_3 -> hh_2 Vwm )
5.85836037E-17	2		1000012	-24	# BR(Hpm_3 -> hh_3 Vwm )
1.90795779E-08	2		1000014	-24	# BR(Hpm_3 -> hh_4 Vwm )
5.89968463E-09	2		1000016	-24	# BR(Hpm_3 -> hh_5 Vwm )
4.79738554E-13	2		-24	23	# BR(Hpm_3 -> Vwm VZ )
DECAY	2000011	1.50599385E-03	# Hpm_4		
#	BR	NDA	ID1	ID2	
2.28297704E-11	2		37	36	# BR(Hpm_4 -> Hpm_2 Ah_2 )
1.54259205E-21	2		36	-24	# BR(Hpm_4 -> Ah_2 Vwm )
3.22956583E-22	2		1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm )
3.07089744E-09	2		1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm )
2.00413754E-10	2		1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm )
1.30078028E-09	2		2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm )
3.18447692E-12	2		12	11	# BR(Hpm_4 -> Chi_1 Cha_1 )
2.17813271E-11	2		12	13	# BR(Hpm_4 -> Chi_1 Cha_2 )
3.87716733E-11	2		12	15	# BR(Hpm_4 -> Chi_1 Cha_3 )
5.25961611E-01	2		12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4 )
5.45636353E-13	2		14	11	# BR(Hpm_4 -> Chi_2 Cha_1 )
7.31096131E-12	2		14	13	# BR(Hpm_4 -> Chi_2 Cha_2 )
1.30903775E-11	2		14	15	# BR(Hpm_4 -> Chi_2 Cha_3 )
1.76527951E-01	2		14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4 )
2.98900296E-12	2		16	11	# BR(Hpm_4 -> Chi_3 Cha_1 )
8.12411085E-13	2		16	13	# BR(Hpm_4 -> Chi_3 Cha_2 )
1.61363134E-12	2		16	15	# BR(Hpm_4 -> Chi_3 Cha_3 )
1.96041901E-02	2		16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4 )
2.05022637E-01	2		1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1 )
3.56449598E-24	2		1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2 )
5.69910391E-24	2		1000022	15	# BR(Hpm_4 -> Chi_4 Cha_3 )
4.65130016E-10	2		1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4 )
1.14800385E-04	2		1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1 )
6.22712808E-23	2		1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2 )
8.16136412E-25	2		1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3 )
3.13071468E-11	2		1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4 )
1.04726801E-04	2		1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1 )
7.23394418E-23	2		1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2 )
1.57338569E-24	2		1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3 )
2.21625362E-12	2		1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4 )
5.28346924E-02	2		1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1 )
2.05505342E-24	2		1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2 )
4.37174232E-24	2		1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3 )
1.98293707E-02	2		1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1 )
4.34306896E-25	2		1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2 )
1.69576626E-24	2		1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3 )
2.26257720E-18	2		-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1 )
3.84703423E-17	2		-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2 )
2.38484990E-17	2		-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3 )
3.35569990E-15	2		-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1 )
6.33589598E-14	2		-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2 )
3.56044820E-15	2		-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3 )
1.31811921E-13	2		-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1 )
6.23368359E-12	2		-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2 )
3.72254905E-09	2		-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3 )
9.46282036E-21	2		37	25	# BR(Hpm_4 -> Hpm_2 hh_1 )
2.95676834E-19	2		37	35	# BR(Hpm_4 -> Hpm_2 hh_2 )
2.28297702E-11	2		37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3 )
2.72860518E-20	2		37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4 )
4.39401034E-21	2		37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5 )
9.25407752E-21	2		1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1 )
6.44575851E-21	2		1000011	35	# BR(Hpm_4 -> Hpm_3 hh_2 )
4.20122386E-29	2		1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3 )
1.39075241E-21	2		1000011	1000014	# BR(Hpm_4 -> Hpm_3 hh_4 )
1.49276749E-21	2		1000011	1000016	# BR(Hpm_4 -> Hpm_3 hh_5 )
4.14502517E-09	2		25	-24	# BR(Hpm_4 -> hh_1 Vwm )
1.93674204E-09	2		35	-24	# BR(Hpm_4 -> hh_2 Vwm )
1.25674593E-17	2		1000012	-24	# BR(Hpm_4 -> hh_3 Vwm )
4.49082561E-09	2		1000014	-24	# BR(Hpm_4 -> hh_4 Vwm )
3.59060706E-10	2		1000016	-24	# BR(Hpm_4 -> hh_5 Vwm )
3.74408562E-22	2		2000012	-24	# BR(Hpm_4 -> hh_6 Vwm )
1.29615984E-28	2		1000011	23	# BR(Hpm_4 -> Hpm_3 VZ )
1.57068477E-13	2		-24	23	# BR(Hpm_4 -> Vwm VZ )
DECAY	1000013	2.23627834E+01	# Hpm_5		

#	BR	NDA	ID1	ID2	
	1.32671005E-04	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2 )
	4.08303871E-24	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3 )
	4.10463000E-16	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4 )
	1.46251531E-15	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5 )
	4.61348818E-13	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6 )
	5.31073015E-25	2	37	2000019	# BR(Hpm_5 -> Hpm_2 Ah_7 )
	1.54008454E-26	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2 )
	1.10004520E-04	2	1000011	1000017	# BR(Hpm_5 -> Hpm_3 Ah_3 )
	9.21221457E-16	2	1000011	1000018	# BR(Hpm_5 -> Hpm_3 Ah_4 )
	2.13116765E-16	2	1000011	1000019	# BR(Hpm_5 -> Hpm_3 Ah_5 )
	1.88892852E-13	2	1000011	2000018	# BR(Hpm_5 -> Hpm_3 Ah_6 )
	2.09352449E-25	2	1000011	2000019	# BR(Hpm_5 -> Hpm_3 Ah_7 )
	2.98188860E-27	2	2000011	36	# BR(Hpm_5 -> Hpm_4 Ah_2 )
	2.27366161E-25	2	2000011	1000017	# BR(Hpm_5 -> Hpm_4 Ah_3 )
	8.03717965E-15	2	2000011	1000018	# BR(Hpm_5 -> Hpm_4 Ah_4 )
	4.42439623E-16	2	2000011	1000019	# BR(Hpm_5 -> Hpm_4 Ah_5 )
	5.66392166E-15	2	2000011	2000018	# BR(Hpm_5 -> Hpm_4 Ah_6 )
	1.61217522E-14	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm )
	7.60539056E-13	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm )
	3.23761995E-05	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm )
	3.04168952E-05	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm )
	9.75913863E-02	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm )
	9.83416345E-14	2	2000019	-24	# BR(Hpm_5 -> Ah_7 Vwm )
	8.41715441E-11	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1 )
	3.50082074E-07	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2 )
	3.04047880E-04	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3 )
	1.47422257E-18	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4 )
	2.82504082E-11	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1 )
	2.37605094E-06	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2 )
	4.40498670E-04	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3 )
	4.32862932E-17	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4 )
	3.13732964E-12	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1 )
	2.43615586E-06	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2 )
	7.47342381E-04	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3 )
	2.15455473E-15	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4 )
	4.33116211E-17	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1 )
	2.64765231E-16	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2 )
	2.66969113E-15	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3 )
	2.02642793E-01	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4 )
	8.50630822E-16	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1 )
	1.95877053E-15	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2 )
	1.13920910E-17	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3 )
	6.12074064E-07	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4 )
	5.57455975E-17	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1 )
	1.77776489E-15	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2 )
	7.78473122E-17	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3 )
	3.01143025E-06	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4 )
	2.12065393E-16	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1 )
	1.44035623E-15	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2 )
	2.72701228E-15	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3 )
	4.62782046E-02	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4 )
	2.15540435E-16	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1 )
	1.42335440E-15	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2 )
	4.67356901E-15	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3 )
	2.60489234E-01	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4 )
	8.73408630E-09	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1 )
	1.67980195E-07	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2 )
	1.04186322E-07	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3 )
	6.14769337E-08	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1 )
	4.27325744E-06	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2 )
	1.50665829E-05	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3 )
	3.08836342E-06	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1 )
	1.46060663E-04	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2 )
	9.52364746E-02	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3 )
	8.74900090E-13	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1 )
	2.52181424E-12	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2 )
	1.32671003E-04	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3 )
	5.29823854E-14	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4 )
	2.10997454E-14	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5 )
	3.00229640E-24	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6 )
	2.27764251E-25	2	37	2000014	# BR(Hpm_5 -> Hpm_2 hh_7 )
	5.91411207E-13	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1 )

1.91787494E-13	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2 )
8.05105387E-22	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3 )
7.24081212E-14	2	1000011	1000014	# BR(Hpm_5 -> Hpm_3 hh_4 )
8.85469454E-15	2	1000011	1000016	# BR(Hpm_5 -> Hpm_3 hh_5 )
1.10004520E-04	2	1000011	2000012	# BR(Hpm_5 -> Hpm_3 hh_6 )
9.52886148E-26	2	1000011	2000014	# BR(Hpm_5 -> Hpm_3 hh_7 )
9.62142822E-14	2	2000011	25	# BR(Hpm_5 -> Hpm_4 hh_1 )
2.92542950E-14	2	2000011	35	# BR(Hpm_5 -> Hpm_4 hh_2 )
1.31723675E-22	2	2000011	1000012	# BR(Hpm_5 -> Hpm_4 hh_3 )
1.96840585E-16	2	2000011	1000014	# BR(Hpm_5 -> Hpm_4 hh_4 )
7.46700111E-16	2	2000011	1000016	# BR(Hpm_5 -> Hpm_4 hh_5 )
1.16669168E-25	2	2000011	2000012	# BR(Hpm_5 -> Hpm_4 hh_6 )
2.14173824E-01	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm )
5.97187505E-02	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm )
2.32974357E-10	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm )
1.31048697E-02	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm )
8.54681002E-03	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm )
5.58816261E-13	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm )
3.95772854E-14	2	2000014	-24	# BR(Hpm_5 -> hh_7 Vwm )
4.52457109E-23	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ )
2.40905890E-27	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ )
3.74192639E-09	2	-24	23	# BR(Hpm_5 -> Vwm VZ )
DECAY	2000013	2.95035301E-01	# Hpm_6	
#	BR	NDA	ID1	ID2
8.22694282E-18	2	37	36	# BR(Hpm_6 -> Hpm_2 Ah_2 )
1.41710524E-15	2	37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3 )
1.81962725E-09	2	37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4 )
1.80157119E-09	2	37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5 )
1.41471483E-04	2	37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6 )
2.80860233E-17	2	37	2000019	# BR(Hpm_6 -> Hpm_2 Ah_7 )
2.05802493E-17	2	1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2 )
2.87440671E-17	2	1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3 )
2.93320079E-28	2	1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4 )
5.46726322E-29	2	1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5 )
1.53208040E-25	2	1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6 )
3.35695496E-17	2	2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2 )
2.58267056E-27	2	2000011	1000018	# BR(Hpm_6 -> Hpm_4 Ah_4 )
1.90341275E-28	2	2000011	1000019	# BR(Hpm_6 -> Hpm_4 Ah_5 )
9.19439765E-27	2	2000011	2000018	# BR(Hpm_6 -> Hpm_4 Ah_6 )
1.66843809E-17	2	2000011	2000019	# BR(Hpm_6 -> Hpm_4 Ah_7 )
5.22520431E-03	2	1000013	36	# BR(Hpm_6 -> Hpm_5 Ah_2 )
1.50577389E-06	2	36	-24	# BR(Hpm_6 -> Ah_2 Vwm )
3.56131096E-25	2	1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm )
1.51181445E-17	2	1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm )
1.14325794E-17	2	1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm )
4.96360441E-14	2	2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm )
6.48907461E-26	2	2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm )
1.21278914E-14	2	2000020	-24	# BR(Hpm_6 -> Ah_8 Vwm )
5.46887254E-16	2	12	11	# BR(Hpm_6 -> Chi_1 Cha_1 )
2.41824753E-15	2	12	13	# BR(Hpm_6 -> Chi_1 Cha_2 )
5.81226438E-15	2	12	15	# BR(Hpm_6 -> Chi_1 Cha_3 )
2.59286538E-02	2	12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4 )
7.92319614E-16	2	14	11	# BR(Hpm_6 -> Chi_2 Cha_1 )
3.50412740E-15	2	14	13	# BR(Hpm_6 -> Chi_2 Cha_2 )
1.11364938E-14	2	14	15	# BR(Hpm_6 -> Chi_2 Cha_3 )
3.75649307E-02	2	14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4 )
1.34423566E-15	2	16	11	# BR(Hpm_6 -> Chi_3 Cha_1 )
5.94451475E-15	2	16	13	# BR(Hpm_6 -> Chi_3 Cha_2 )
3.70722032E-13	2	16	15	# BR(Hpm_6 -> Chi_3 Cha_3 )
6.37320079E-02	2	16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4 )
4.66312020E-26	2	1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1 )
2.07888050E-25	2	1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2 )
5.57462274E-02	2	1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3 )
7.77119897E-14	2	1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4 )
6.43936383E-29	2	1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1 )
1.96798817E-27	2	1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2 )
7.03052715E-05	2	1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3 )
6.91432483E-18	2	1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4 )
1.14183373E-29	2	1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1 )
6.76599712E-29	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2 )
6.78455010E-05	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3 )
1.00434118E-16	2	1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4 )
1.27091336E-25	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1 )

5.69708635E-25	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2 )
6.57806486E-02	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3 )
1.60577854E-14	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4 )
7.90067445E-26	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1 )
3.54935509E-25	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2 )
4.85743859E-02	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3 )
9.42925556E-14	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4 )
6.99222099E-30	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1 )
2.30391268E-27	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2 )
6.91935873E-01	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3 )
2.88488977E-21	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1 )
5.54846469E-20	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2 )
3.44136528E-20	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3 )
2.00524730E-20	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1 )
1.40674326E-18	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2 )
4.97662157E-18	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3 )
1.02907014E-18	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1 )
4.86687397E-17	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2 )
3.17782387E-14	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3 )
2.04413405E-06	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1 )
4.42111064E-07	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2 )
5.39012707E-15	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3 )
1.36027076E-07	2	37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4 )
1.24488166E-07	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5 )
3.19936848E-17	2	37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6 )
7.15686406E-17	2	37	2000014	# BR(Hpm_6 -> Hpm_2 hh_7 )
3.20791804E-25	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1 )
1.19277919E-26	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2 )
2.05802493E-17	2	1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3 )
3.34228557E-26	2	1000011	1000014	# BR(Hpm_6 -> Hpm_3 hh_4 )
1.26175537E-26	2	1000011	1000016	# BR(Hpm_6 -> Hpm_3 hh_5 )
2.87440671E-17	2	1000011	2000012	# BR(Hpm_6 -> Hpm_3 hh_6 )
7.42783776E-26	2	2000011	25	# BR(Hpm_6 -> Hpm_4 hh_1 )
1.61227165E-25	2	2000011	35	# BR(Hpm_6 -> Hpm_4 hh_2 )
3.35695494E-17	2	2000011	1000012	# BR(Hpm_6 -> Hpm_4 hh_3 )
5.87049023E-28	2	2000011	1000014	# BR(Hpm_6 -> Hpm_4 hh_4 )
5.40209691E-27	2	2000011	1000016	# BR(Hpm_6 -> Hpm_4 hh_5 )
1.66843809E-17	2	2000011	2000014	# BR(Hpm_6 -> Hpm_4 hh_7 )
6.60985522E-13	2	1000013	25	# BR(Hpm_6 -> Hpm_5 hh_1 )
4.73617380E-11	2	1000013	35	# BR(Hpm_6 -> Hpm_5 hh_2 )
5.22520433E-03	2	1000013	1000012	# BR(Hpm_6 -> Hpm_5 hh_3 )
1.05803263E-13	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm )
3.37858849E-15	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm )
1.50577391E-06	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm )
6.67499805E-15	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm )
5.35916997E-15	2	1000016	-24	# BR(Hpm_6 -> hh_5 Vwm )
2.88368539E-25	2	2000012	-24	# BR(Hpm_6 -> hh_6 Vwm )
2.79027400E-26	2	2000014	-24	# BR(Hpm_6 -> hh_7 Vwm )
9.25519881E-15	2	2000016	-24	# BR(Hpm_6 -> hh_8 Vwm )
1.48015423E-06	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ )
2.63305025E-28	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ )
2.08037522E-28	2	2000011	23	# BR(Hpm_6 -> Hpm_4 VZ )
3.22880460E-14	2	1000013	23	# BR(Hpm_6 -> Hpm_5 VZ )
1.88478745E-21	2	-24	23	# BR(Hpm_6 -> Vwm VZ )
DECAY 1000015	2.19088591E-01	# Hpm_7		
# BR	NDA	ID1	ID2	
9.06850107E-21	2	37	36	# BR(Hpm_7 -> Hpm_2 Ah_2 )
5.93461295E-17	2	37	1000017	# BR(Hpm_7 -> Hpm_2 Ah_3 )
6.71245148E-28	2	37	1000018	# BR(Hpm_7 -> Hpm_2 Ah_4 )
7.26758910E-28	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5 )
3.74766909E-28	2	37	2000018	# BR(Hpm_7 -> Hpm_2 Ah_6 )
2.77798021E-17	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2 )
4.98134338E-17	2	1000011	1000017	# BR(Hpm_7 -> Hpm_3 Ah_3 )
1.19087990E-09	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4 )
1.12397523E-09	2	1000011	1000019	# BR(Hpm_7 -> Hpm_3 Ah_5 )
6.43475087E-06	2	1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6 )
2.12882796E-17	2	1000011	2000019	# BR(Hpm_7 -> Hpm_3 Ah_7 )
3.58906871E-18	2	2000011	1000017	# BR(Hpm_7 -> Hpm_4 Ah_3 )
2.72830039E-29	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4 )
4.77903277E-29	2	2000011	1000019	# BR(Hpm_7 -> Hpm_4 Ah_5 )
8.28195576E-29	2	2000011	2000018	# BR(Hpm_7 -> Hpm_4 Ah_6 )
4.61433778E-21	2	2000011	2000019	# BR(Hpm_7 -> Hpm_4 Ah_7 )
1.75357573E-28	2	1000013	36	# BR(Hpm_7 -> Hpm_5 Ah_2 )

1.69397628E-28	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm )
1.05587617E-05	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm )
1.20527500E-16	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm )
1.32790414E-16	2	1000019	-24	# BR(Hpm_7 -> Ah_5 Vwm )
5.42657618E-17	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm )
7.40713802E-29	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm )
1.80596986E-19	2	2000020	-24	# BR(Hpm_7 -> Ah_8 Vwm )
8.36201790E-19	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1 )
6.08541756E-17	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2 )
4.80814903E-19	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3 )
4.01643485E-05	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4 )
5.67540641E-18	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1 )
8.82126368E-15	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2 )
3.25814663E-18	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3 )
2.72600470E-04	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4 )
5.81897230E-18	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1 )
4.66309943E-13	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2 )
3.34151331E-18	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3 )
2.79496210E-04	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4 )
2.48170652E-20	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1 )
4.55279009E-02	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2 )
1.56288900E-28	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3 )
2.36013655E-18	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4 )
1.98531165E-23	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1 )
3.65409043E-05	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2 )
1.77037257E-17	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4 )
1.86305043E-23	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1 )
3.42993161E-05	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2 )
1.70892747E-17	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4 )
3.18212797E-21	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1 )
6.11140746E-03	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2 )
2.63163900E-29	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3 )
1.04929200E-18	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4 )
8.10913578E-21	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1 )
1.50177942E-02	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2 )
5.27477081E-29	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3 )
8.09335060E-19	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4 )
5.09511403E-19	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1 )
9.32623424E-01	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2 )
3.11426103E-27	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3 )
2.84320675E-26	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1 )
5.38640341E-25	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2 )
3.34070720E-25	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3 )
5.61881971E-24	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1 )
1.14912872E-22	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2 )
4.84917771E-23	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3 )
2.90510019E-22	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1 )
1.37388884E-20	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2 )
8.22549279E-18	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3 )
5.52550548E-29	2	37	25	# BR(Hpm_7 -> Hpm_2 hh_1 )
2.21703847E-28	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2 )
9.06850091E-21	2	37	1000012	# BR(Hpm_7 -> Hpm_2 hh_3 )
3.48720535E-28	2	37	1000014	# BR(Hpm_7 -> Hpm_2 hh_4 )
1.49423960E-28	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5 )
5.93461295E-17	2	37	2000012	# BR(Hpm_7 -> Hpm_2 hh_6 )
2.72792096E-07	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1 )
1.78640203E-05	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2 )
1.33713847E-13	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3 )
2.01395525E-07	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4 )
1.26517074E-07	2	1000011	1000016	# BR(Hpm_7 -> Hpm_3 hh_5 )
3.84324280E-17	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6 )
1.06519371E-17	2	1000011	2000014	# BR(Hpm_7 -> Hpm_3 hh_7 )
4.96999176E-30	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1 )
1.22976203E-29	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2 )
1.18224507E-29	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4 )
1.29707532E-29	2	2000011	1000016	# BR(Hpm_7 -> Hpm_4 hh_5 )
3.58906871E-18	2	2000011	2000012	# BR(Hpm_7 -> Hpm_4 hh_6 )
4.61433778E-21	2	2000011	2000014	# BR(Hpm_7 -> Hpm_4 hh_7 )
7.88835833E-19	2	1000013	25	# BR(Hpm_7 -> Hpm_5 hh_1 )
2.51543397E-18	2	1000013	35	# BR(Hpm_7 -> Hpm_5 hh_2 )
1.19250068E-26	2	1000013	1000012	# BR(Hpm_7 -> Hpm_5 hh_3 )
1.70557444E-17	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm )
2.83577855E-17	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm )

1.83670440E-25	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm )
6.98862444E-17	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm )
2.19588462E-17	2	1000016	-24	# BR(Hpm_7 -> hh_5 Vwm )
1.05587617E-05	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm )
5.19149155E-29	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm )
1.37553003E-19	2	2000016	-24	# BR(Hpm_7 -> hh_8 Vwm )
4.85538424E-30	2	37	23	# BR(Hpm_7 -> Hpm_2 VZ )
1.03524319E-05	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ )
3.72746861E-29	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ )
4.78225778E-19	2	1000013	23	# BR(Hpm_7 -> Hpm_5 VZ )
1.13506892E-21	2	-24	23	# BR(Hpm_7 -> Vwm VZ )
DECAY 2000015	2.18823371E-01	# Hpm_8		
# BR	NDA	ID1	ID2	
3.79253539E-26	2	37	36	# BR(Hpm_8 -> Hpm_2 Ah_2 )
1.15107330E-21	2	37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7 )
3.32435275E-26	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3 )
6.53714920E-28	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4 )
6.15329152E-28	2	1000011	1000019	# BR(Hpm_8 -> Hpm_3 Ah_5 )
3.51988164E-24	2	1000011	2000018	# BR(Hpm_8 -> Hpm_3 Ah_6 )
5.77472800E-22	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7 )
5.38448547E-22	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2 )
4.63814567E-23	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3 )
2.17099001E-14	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4 )
2.04881900E-14	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5 )
1.16680229E-10	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6 )
1.19241474E-22	2	2000011	2000019	# BR(Hpm_8 -> Hpm_4 Ah_7 )
5.77188817E-24	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm )
6.89956379E-22	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm )
4.55616586E-23	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm )
4.56108817E-22	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm )
2.03628819E-10	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm )
8.59479490E-25	2	2000020	-24	# BR(Hpm_8 -> Ah_8 Vwm )
5.72433032E-17	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1 )
8.84624678E-22	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2 )
1.14458588E-22	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3 )
9.66719448E-09	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4 )
8.82294965E-15	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1 )
2.96905647E-22	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2 )
3.84205347E-23	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3 )
3.24458877E-09	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4 )
4.66868168E-13	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1 )
3.29726819E-23	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2 )
4.27696257E-24	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3 )
3.60326197E-10	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4 )
4.54809071E-02	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1 )
2.49029692E-20	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2 )
8.50956832E-24	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4 )
3.63837405E-05	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1 )
1.99872427E-23	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2 )
1.87117739E-22	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4 )
3.41431314E-05	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1 )
1.87611299E-23	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2 )
1.27759682E-23	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4 )
5.83171880E-03	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1 )
3.34283511E-21	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2 )
3.28044270E-24	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4 )
1.48611812E-02	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1 )
8.21447312E-21	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2 )
3.43260575E-24	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4 )
9.33755652E-01	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1 )
5.10129525E-19	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2 )
2.45071002E-30	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2 )
1.51996295E-30	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3 )
2.35005620E-29	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1 )
4.84301618E-28	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2 )
2.20560088E-28	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3 )
1.21502191E-27	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1 )
5.74611922E-26	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2 )
3.44116835E-23	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3 )
3.79253530E-26	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3 )
1.15107330E-21	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7 )
1.49230142E-25	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1 )
9.77159726E-24	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2 )

1.10150118E-25	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4 )
6.92003431E-26	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5 )
3.32437590E-26	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6 )
5.77472848E-22	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7 )
5.28637976E-12	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1 )
3.46449330E-10	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2 )
2.59218732E-18	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3 )
3.89597894E-12	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4 )
2.44449770E-12	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5 )
2.61905790E-21	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6 )
2.79979358E-23	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7 )
6.00975397E-24	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1 )
1.05213627E-23	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2 )
1.82812687E-22	2	25	-24	# BR(Hpm_8 -> hh_1 VWm )
7.78437789E-23	2	35	-24	# BR(Hpm_8 -> hh_2 VWm )
1.22840673E-22	2	1000014	-24	# BR(Hpm_8 -> hh_4 VWm )
8.11081476E-24	2	1000016	-24	# BR(Hpm_8 -> hh_5 VWm )
5.77189841E-24	2	2000012	-24	# BR(Hpm_8 -> hh_6 VWm )
2.03628819E-10	2	2000014	-24	# BR(Hpm_8 -> hh_7 VWm )
6.59057881E-25	2	2000016	-24	# BR(Hpm_8 -> hh_8 VWm )
5.65473410E-24	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ )
1.99241365E-10	2	2000011	23	# BR(Hpm_8 -> Hpm_4 VZ )
2.23636161E-24	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ )
4.73233984E-27	2	-24	23	# BR(Hpm_8 -> VWm VZ )