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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: 04.10.2019, 18:08
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 1.00761490E+01 # TanBeta
Block EXTPAR # Input parameters
  65 9.50380257E+02 # vR1Input
  66 9.50380257E+02 # vR2Input
  67 9.50380257E+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 5.49769765E+06 # mHd2
  22 -5.50224959E+03 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 2.34829416E+01 # vd
  103 2.36617618E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 1.45167067E-04 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 2.75316849E-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 1.42664181E-01 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 2.89049831E-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 6.10930013E-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      1.03858103E-01 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
1 1      1.40058546E-01 # Real(lam(1) ,dp)
2 1      1.40058546E-01 # Real(lam(2) ,dp)
3 1      1.40058546E-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      6.08693611E-06 # Real(Yu(1,1),dp)
1 2      1.40790537E-06 # Real(Yu(1,2),dp)
1 3      2.13982484E-08 # Real(Yu(1,3),dp)
2 1      -6.86055605E-04 # Real(Yu(2,1),dp)
2 2      2.96418575E-03 # Real(Yu(2,2),dp)
2 3      1.25411922E-04 # Real(Yu(2,3),dp)
3 1      5.08435326E-03 # Real(Yu(3,1),dp)
3 2      -3.49647731E-02 # Real(Yu(3,2),dp)
3 3      8.54226855E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
1 1 1      4.14668365E-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      4.22961725E-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      4.31255084E-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      2.34708177E+02 # Real(Tlam(1) ,dp)
  2      2.34708177E+02 # Real(Tlam(2) ,dp)
  3      2.34708177E+02 # Real(Tlam(3) ,dp)
Block Tv # (SUSY Scale)
  1 1     -1.00000005E-03 # Real(Tv(1,1),dp)
  1 2      0.00000000E+00 # Real(Tv(1,2),dp)
  1 3      0.00000000E+00 # Real(Tv(1,3),dp)
  2 1      0.00000000E+00 # Real(Tv(2,1),dp)
  2 2     -1.00000005E-03 # Real(Tv(2,2),dp)
  2 3      0.00000000E+00 # Real(Tv(2,3),dp)
  3 1      0.00000000E+00 # Real(Tv(3,1),dp)
  3 2      0.00000000E+00 # Real(Tv(3,2),dp)
  3 3     -3.00000014E-04 # Real(Tv(3,3),dp)
Block Tu # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Tu(1,1),dp)
  1 2      0.00000000E+00 # Real(Tu(1,2),dp)
  1 3      0.00000000E+00 # Real(Tu(1,3),dp)
  2 1      0.00000000E+00 # Real(Tu(2,1),dp)
  2 2      0.00000000E+00 # Real(Tu(2,2),dp)
  2 3      0.00000000E+00 # Real(Tu(2,3),dp)
  3 1      0.00000000E+00 # Real(Tu(3,1),dp)
  3 2      0.00000000E+00 # Real(Tu(3,2),dp)
  3 3     -2.50400475E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1     -2.39184569E+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     -2.39184569E+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     -2.39184569E+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      1.45378566E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      1.00946842E+06 # 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      3.55848142E+05 # Real(ml2(2,2),dp)
  2 3      0.00000000E+00 # Real(ml2(2,3),dp)
  3 1      0.00000000E+00 # Real(ml2(3,1),dp)

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3 2      0.00000000E+00 # Real(ml2(3,2),dp)
3 3      8.02384418E+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      1.45378566E+06 # Real(mu2(3,3),dp)
Block MSE2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(me2(1,1),dp)
1 2      0.00000000E+00 # Real(me2(1,2),dp)
1 3      0.00000000E+00 # Real(me2(1,3),dp)
2 1      0.00000000E+00 # Real(me2(2,1),dp)
2 2      1.00000000E+06 # Real(me2(2,2),dp)
2 3      0.00000000E+00 # Real(me2(2,3),dp)
3 1      0.00000000E+00 # Real(me2(3,1),dp)
3 2      0.00000000E+00 # Real(me2(3,2),dp)
3 3      1.00000000E+06 # Real(me2(3,3),dp)
Block mv2 # (SUSY Scale)
1 1      1.80234994E+03 # Real(mv2(1,1),dp)
1 2      0.00000000E+00 # Real(mv2(1,2),dp)
1 3      0.00000000E+00 # Real(mv2(1,3),dp)
2 1      0.00000000E+00 # Real(mv2(2,1),dp)
2 2      -4.52328657E+03 # Real(mv2(2,2),dp)
2 3      0.00000000E+00 # Real(mv2(2,3),dp)
3 1      0.00000000E+00 # Real(mv2(3,1),dp)
3 2      0.00000000E+00 # Real(mv2(3,2),dp)
3 3      -1.09735924E+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      9.50380257E+02 # vR(1)
2      9.50380257E+02 # vR(2)
3      9.50380257E+02 # vR(3)
Block RVSNEV # (SUSY Scale)
1      1.50000007E-04 # vL(1)
2      4.00999998E-04 # vL(2)
3      5.49999997E-04 # vL(3)
Block MASS # Mass spectrum
# PDG code      mass      particle
1000001      1.00026781E+03 # Sd_1
1000003      1.00029018E+03 # Sd_2
1000005      1.00029325E+03 # Sd_3
2000001      1.00166134E+03 # Sd_4
2000003      1.00166441E+03 # Sd_5
2000005      1.20713430E+03 # Sd_6
1000002      9.98629644E+02 # Su_1
1000004      9.98644693E+02 # Su_2
1000006      9.99413232E+02 # Su_3
2000002      9.99413428E+02 # Su_4
2000004      1.02436226E+03 # Su_5
2000006      1.37667563E+03 # Su_6
      25      1.22445277E+02 # hh_1
      35      2.92778649E+02 # hh_2
1000012      3.83757298E+02 # hh_3
1000014      3.99783754E+02 # hh_4
1000016      4.15598808E+02 # hh_5

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2000012      6.04847963E+02 # hh_6
2000014      1.01336819E+03 # hh_7
2000016      2.37717525E+03 # hh_8
   36      2.92778649E+02 # Ah_2
1000017      6.04847963E+02 # Ah_3
1000018      6.86137866E+02 # Ah_4
1000019      6.86254388E+02 # Ah_5
2000018      6.87635119E+02 # Ah_6
2000019      1.01336819E+03 # Ah_7
2000020      2.37687485E+03 # Ah_8
   37      3.03905231E+02 # Hpm_2
1000011      6.10379845E+02 # Hpm_3
2000011      1.00264454E+03 # Hpm_4
1000013      1.00267354E+03 # Hpm_5
2000013      1.00267377E+03 # Hpm_6
1000015      1.01663076E+03 # Hpm_7
2000015      2.37485771E+03 # Hpm_8
   23      9.11887000E+01 # VZ
   24      8.03497269E+01 # VWm
   1      5.00000000E-03 # Fd_1
   3      9.50000000E-02 # Fd_2
   5      4.20000000E+00 # Fd_3
   2      2.50000000E-03 # Fu_1
   4      1.27000000E+00 # Fu_2
   6      1.72600000E+02 # Fu_3
1000021      2.70000000E+03 # Glu
   12      9.30756573E-13 # Chi_1
   14      4.29292985E-12 # Chi_2
   16      5.03311688E-11 # Chi_3
1000022      2.80812136E+02 # Chi_4
1000023      2.91498457E+02 # Chi_5
1000025      5.55175068E+02 # Chi_6
1000039      5.66321981E+02 # Chi_7
1000045      5.77496973E+02 # Chi_8
1000055      8.92023944E+02 # Chi_9
1000065      1.77516798E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      2.87069316E+02 # Cha_4
1000037      1.77524676E+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 -1.11244165E-02 # Real(ZD(1,3),dp)
 1 4 -0.00000000E+00 # Real(ZD(1,4),dp)
 1 5 -0.00000000E+00 # Real(ZD(1,5),dp)
 1 6 -9.99938122E-01 # Real(ZD(1,6),dp)
 2 1 0.00000000E+00 # Real(ZD(2,1),dp)
 2 2 4.73313572E-02 # Real(ZD(2,2),dp)
 2 3 0.00000000E+00 # Real(ZD(2,3),dp)
 2 4 0.00000000E+00 # Real(ZD(2,4),dp)
 2 5 9.98879243E-01 # Real(ZD(2,5),dp)
 2 6 0.00000000E+00 # Real(ZD(2,6),dp)
 3 1 -2.50405237E-03 # Real(ZD(3,1),dp)
 3 2 -0.00000000E+00 # Real(ZD(3,2),dp)
 3 3 -0.00000000E+00 # Real(ZD(3,3),dp)
 3 4 -9.99996865E-01 # Real(ZD(3,4),dp)
 3 5 -0.00000000E+00 # Real(ZD(3,5),dp)
 3 6 -0.00000000E+00 # Real(ZD(3,6),dp)
 4 1 -9.99996865E-01 # Real(ZD(4,1),dp)
 4 2 0.00000000E+00 # Real(ZD(4,2),dp)
 4 3 0.00000000E+00 # Real(ZD(4,3),dp)
 4 4 2.50405237E-03 # Real(ZD(4,4),dp)
 4 5 0.00000000E+00 # Real(ZD(4,5),dp)
 4 6 0.00000000E+00 # Real(ZD(4,6),dp)
 5 1 0.00000000E+00 # Real(ZD(5,1),dp)
 5 2 9.98879243E-01 # Real(ZD(5,2),dp)
 5 3 0.00000000E+00 # Real(ZD(5,3),dp)
 5 4 0.00000000E+00 # Real(ZD(5,4),dp)
 5 5 -4.73313572E-02 # Real(ZD(5,5),dp)
 5 6 0.00000000E+00 # Real(ZD(5,6),dp)
 6 1 0.00000000E+00 # Real(ZD(6,1),dp)

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6 2      0.00000000E+00 # Real(ZD(6,2),dp)
6 3     -9.99938122E-01 # Real(ZD(6,3),dp)
6 4      0.00000000E+00 # Real(ZD(6,4),dp)
6 5      0.00000000E+00 # Real(ZD(6,5),dp)
6 6      1.11244165E-02 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1      9.89540740E-01 # Real(ZU(1,1),dp)
1 2      1.44251716E-01 # Real(ZU(1,2),dp)
1 3      2.52779637E-06 # Real(ZU(1,3),dp)
1 4      1.86462913E-05 # Real(ZU(1,4),dp)
1 5     -7.52423742E-04 # Real(ZU(1,5),dp)
1 6      2.12330235E-06 # Real(ZU(1,6),dp)
2 1      1.44232500E-01 # Real(ZU(2,1),dp)
2 2     -9.89457006E-01 # Real(ZU(2,2),dp)
2 3     -7.10496967E-03 # Real(ZU(2,3),dp)
2 4     -1.57332958E-06 # Real(ZU(2,4),dp)
2 5     -9.25856534E-03 # Real(ZU(2,5),dp)
2 6     -5.96798721E-03 # Real(ZU(2,6),dp)
3 1      1.82264729E-05 # Real(ZU(3,1),dp)
3 2      4.23722023E-06 # Real(ZU(3,2),dp)
3 3      1.04271996E-08 # Real(ZU(3,3),dp)
3 4     -1.00000000E+00 # Real(ZU(3,4),dp)
3 5      1.02670143E-06 # Real(ZU(3,5),dp)
3 6      8.75100120E-09 # Real(ZU(3,6),dp)
4 1     -2.08003725E-03 # Real(ZU(4,1),dp)
4 2      9.05285647E-03 # Real(ZU(4,2),dp)
4 3      6.14729985E-05 # Real(ZU(4,3),dp)
4 4     -1.02620883E-06 # Real(ZU(4,4),dp)
4 5     -9.99956855E-01 # Real(ZU(4,5),dp)
4 6      5.15910436E-05 # Real(ZU(4,6),dp)
5 1     -1.33035937E-03 # Real(ZU(5,1),dp)
5 2      9.14885468E-03 # Real(ZU(5,2),dp)
5 3     -7.07739671E-01 # Real(ZU(5,3),dp)
5 4      9.62180707E-10 # Real(ZU(5,4),dp)
5 5      5.63925371E-06 # Real(ZU(5,5),dp)
5 6     -7.06412830E-01 # Real(ZU(5,6),dp)
6 1     -1.14441740E-04 # Real(ZU(6,1),dp)
6 2      7.87013267E-04 # Real(ZU(6,2),dp)
6 3     -7.06437593E-01 # Real(ZU(6,3),dp)
6 4      7.69151980E-11 # Real(ZU(6,4),dp)
6 5      4.50788689E-07 # Real(ZU(6,5),dp)
6 6      7.07774890E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1     -9.85383629E-02 # ZH(1,1)
1 2     -9.94560515E-01 # ZH(1,2)
1 3      2.15031097E-02 # ZH(1,3)
1 4      1.93121560E-02 # ZH(1,4)
1 5      1.74421762E-02 # ZH(1,5)
1 6     -6.39981972E-07 # ZH(1,6)
1 7     -1.78648670E-06 # ZH(1,7)
1 8     -3.07368371E-06 # ZH(1,8)
2 1     -2.97910135E-07 # ZH(2,1)
2 2     -3.04618319E-06 # ZH(2,2)
2 3      1.12257672E-07 # ZH(2,3)
2 4      9.23839298E-08 # ZH(2,4)
2 5      6.02940312E-07 # ZH(2,5)
2 6     -2.09840392E-12 # ZH(2,6)
2 7     -6.82873810E-12 # ZH(2,7)
2 8      1.00000000E+00 # ZH(2,8)
3 1      9.44395395E-03 # ZH(3,1)
3 2      1.72363707E-02 # ZH(3,2)
3 3      9.91275490E-01 # ZH(3,3)
3 4     -1.18100251E-01 # ZH(3,4)
3 5     -5.51266986E-02 # ZH(3,5)
3 6      1.85448003E-07 # ZH(3,6)
3 7     -2.02823717E-08 # ZH(3,7)
3 8     -1.18110122E-08 # ZH(3,8)
4 1      1.08922857E-02 # ZH(4,1)
4 2      1.79897950E-02 # ZH(4,2)
4 3      1.09224102E-01 # ZH(4,3)
4 4      9.84286148E-01 # ZH(4,4)
4 5     -1.37144452E-01 # ZH(4,5)
4 6      3.33813982E-08 # ZH(4,6)

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4	7	7.13516579E-07	# ZH(4,7)
4	8	3.75415862E-08	# ZH(4,8)
5	1	1.33879606E-02	# ZH(5,1)
5	2	2.00417911E-02	# ZH(5,2)
5	3	6.99424456E-02	# ZH(5,3)
5	4	1.29499785E-01	# ZH(5,4)
5	5	9.88815933E-01	# ZH(5,5)
5	6	2.85934548E-08	# ZH(5,6)
5	7	1.64295816E-07	# ZH(5,7)
5	8	-5.50972886E-07	# ZH(5,8)
6	1	-1.82413328E-07	# ZH(6,1)
6	2	-1.79288749E-06	# ZH(6,2)
6	3	-3.09362378E-08	# ZH(6,3)
6	4	-6.91507651E-07	# ZH(6,4)
6	5	-3.45940509E-08	# ZH(6,5)
6	6	-1.77861487E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	1.40114674E-12	# ZH(6,8)
7	1	7.02968086E-08	# ZH(7,1)
7	2	6.40398940E-07	# ZH(7,2)
7	3	1.75669581E-07	# ZH(7,3)
7	4	2.25365712E-09	# ZH(7,4)
7	5	2.26429786E-09	# ZH(7,5)
7	6	-1.00000000E+00	# ZH(7,6)
7	7	-6.10564909E-13	# ZH(7,7)
7	8	-1.47982978E-13	# ZH(7,8)
8	1	9.94938754E-01	# ZH(8,1)
8	2	-9.91311403E-02	# ZH(8,2)
8	3	-9.41642452E-03	# ZH(8,3)
8	4	-9.48454602E-03	# ZH(8,4)
8	5	-9.55342695E-03	# ZH(8,5)
8	6	4.76035582E-09	# ZH(8,6)
8	7	-3.42132889E-09	# ZH(8,7)
8	8	2.12415678E-09	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	-9.87503126E-02	# ZA(1,1)
1	2	9.95112243E-01	# ZA(1,2)
1	3	6.49396328E-07	# ZA(1,3)
1	4	6.50499738E-07	# ZA(1,4)
1	5	6.60857826E-07	# ZA(1,5)
1	6	-6.28754185E-07	# ZA(1,6)
1	7	-1.68049401E-06	# ZA(1,7)
1	8	-2.30628360E-06	# ZA(1,8)
2	1	-2.28679176E-07	# ZA(2,1)
2	2	2.29491837E-06	# ZA(2,2)
2	3	-6.66917524E-10	# ZA(2,3)
2	4	-6.69384850E-10	# ZA(2,4)
2	5	1.42377500E-07	# ZA(2,5)
2	6	-1.56951801E-12	# ZA(2,6)
2	7	-4.95192302E-12	# ZA(2,7)
2	8	1.00000000E+00	# ZA(2,8)
3	1	-1.53257276E-07	# ZA(3,1)
3	2	1.67353853E-06	# ZA(3,2)
3	3	-2.73386801E-08	# ZA(3,3)
3	4	1.79696671E-06	# ZA(3,4)
3	5	-2.75630987E-08	# ZA(3,5)
3	6	-1.63485757E-12	# ZA(3,6)
3	7	1.00000000E+00	# ZA(3,7)
3	8	1.08135097E-12	# ZA(3,8)
4	1	-1.15812661E-04	# ZA(4,1)
4	2	-1.14625658E-05	# ZA(4,2)
4	3	2.07046787E-01	# ZA(4,3)
4	4	5.61266689E-01	# ZA(4,4)
4	5	-8.01318488E-01	# ZA(4,5)
4	6	7.19651897E-08	# ZA(4,6)
4	7	-1.02500256E-06	# ZA(4,7)
4	8	1.14603331E-07	# ZA(4,8)
5	1	-1.20662714E-04	# ZA(5,1)
5	2	-1.19488118E-05	# ZA(5,2)
5	3	7.75336518E-01	# ZA(5,3)
5	4	-5.93651999E-01	# ZA(5,4)
5	5	-2.15477548E-01	# ZA(5,5)
5	6	2.69482391E-07	# ZA(5,6)

5	7	1.08203183E-06	# ZA(5,7)
5	8	3.07986870E-08	# ZA(5,8)
6	1	-8.74148678E-03	# ZA(6,1)
6	2	-8.66327592E-04	# ZA(6,2)
6	3	-5.96622718E-01	# ZA(6,3)
6	4	-5.76655252E-01	# ZA(6,4)
6	5	-5.58061726E-01	# ZA(6,5)
6	6	-2.07168346E-07	# ZA(6,6)
6	7	1.00464764E-06	# ZA(6,7)
6	8	7.86606861E-08	# ZA(6,8)
7	1	6.82326772E-08	# ZA(7,1)
7	2	-6.25071611E-07	# ZA(7,2)
7	3	3.47418120E-07	# ZA(7,3)
7	4	-1.45081034E-10	# ZA(7,4)
7	5	-1.44200817E-10	# ZA(7,5)
7	6	-1.00000000E+00	# ZA(7,6)
7	7	-5.68560191E-13	# ZA(7,7)
7	8	-1.19174167E-13	# ZA(7,8)
8	1	9.95073834E-01	# ZA(8,1)
8	2	9.87465111E-02	# ZA(8,2)
8	3	-5.12300942E-03	# ZA(8,3)
8	4	-5.07237727E-03	# ZA(8,4)
8	5	-5.02176492E-03	# ZA(8,5)
8	6	4.39454460E-09	# ZA(8,6)
8	7	-3.91736370E-09	# ZA(8,7)
8	8	1.64565731E-09	# ZA(8,8)

Block CHARGEMIX # ()

1	1	-9.87516551E-02	# ZP(1,1)
1	2	9.95112110E-01	# ZP(1,2)
1	3	-6.30510581E-07	# ZP(1,3)
1	4	-1.68401768E-06	# ZP(1,4)
1	5	-2.29931787E-06	# ZP(1,5)
1	6	4.57628406E-16	# ZP(1,6)
1	7	6.46425832E-13	# ZP(1,7)
1	8	5.57387629E-11	# ZP(1,8)
2	1	2.29076236E-07	# ZP(2,1)
2	2	-2.28785402E-06	# ZP(2,2)
2	3	1.58148484E-12	# ZP(2,3)
2	4	5.05939433E-12	# ZP(2,4)
2	5	-9.99989250E-01	# ZP(2,5)
2	6	1.98104093E-19	# ZP(2,6)
2	7	2.94651810E-16	# ZP(2,7)
2	8	-4.63671560E-03	# ZP(2,8)
3	1	-1.62840458E-07	# ZP(3,1)
3	2	1.67612948E-06	# ZP(3,2)
3	3	-1.64647071E-12	# ZP(3,3)
3	4	9.9999898E-01	# ZP(3,4)
3	5	1.18720726E-12	# ZP(3,5)
3	6	-1.28013107E-18	# ZP(3,6)
3	7	4.52456834E-04	# ZP(3,7)
3	8	3.38262791E-14	# ZP(3,8)
4	1	-5.64177369E-12	# ZP(4,1)
4	2	5.42767247E-11	# ZP(4,2)
4	3	8.65473308E-05	# ZP(4,3)
4	4	-1.53340557E-14	# ZP(4,4)
4	5	1.63303909E-17	# ZP(4,5)
4	6	9.9999996E-01	# ZP(4,6)
4	7	3.40053374E-11	# ZP(4,7)
4	8	1.86478155E-15	# ZP(4,8)
5	1	-1.40871708E-10	# ZP(5,1)
5	2	7.52358024E-10	# ZP(5,2)
5	3	-2.77904686E-14	# ZP(5,3)
5	4	4.52456834E-04	# ZP(5,4)
5	5	4.33839948E-16	# ZP(5,5)
5	6	3.40053505E-11	# ZP(5,6)
5	7	-9.9999898E-01	# ZP(5,7)
5	8	2.68446471E-14	# ZP(5,8)
6	1	4.70981945E-09	# ZP(6,1)
6	2	-1.03022751E-08	# ZP(6,2)
6	3	4.36996558E-13	# ZP(6,3)
6	4	-1.02979640E-14	# ZP(6,4)
6	5	-4.63671560E-03	# ZP(6,5)
6	6	-1.90198295E-15	# ZP(6,6)

6	7	2.68307473E-14	# ZP(6,7)
6	8	9.99989250E-01	# ZP(6,8)
7	1	-6.69920423E-08	# ZP(7,1)
7	2	6.26959513E-07	# ZP(7,2)
7	3	9.99999996E-01	# ZP(7,3)
7	4	5.85047601E-13	# ZP(7,4)
7	5	1.33740074E-13	# ZP(7,5)
7	6	-8.65473308E-05	# ZP(7,6)
7	7	-2.99884007E-14	# ZP(7,7)
7	8	-4.29606594E-13	# ZP(7,8)
8	1	-9.95112110E-01	# ZP(8,1)
8	2	-9.87516551E-02	# ZP(8,2)
8	3	-4.75130296E-09	# ZP(8,3)
8	4	3.47601808E-09	# ZP(8,4)
8	5	-2.04415739E-09	# ZP(8,5)
8	6	1.56722341E-13	# ZP(8,6)
8	7	6.74592906E-11	# ZP(8,7)
8	8	3.65999278E-09	# ZP(8,8)
Block UVMIX # ()			
1	1	-0.00000000E+00	# Real(UV(1,1), dp)
1	2	-0.00000000E+00	# Real(UV(1,2), dp)
1	3	0.00000000E+00	# Real(UV(1,3), dp)
1	4	0.00000000E+00	# Real(UV(1,4), dp)
1	5	-0.00000000E+00	# Real(UV(1,5), dp)
1	6	-0.00000000E+00	# Real(UV(1,6), dp)
1	7	-0.00000000E+00	# Real(UV(1,7), dp)
1	8	0.00000000E+00	# Real(UV(1,8), dp)
1	9	0.00000000E+00	# Real(UV(1,9), dp)
1	10	-0.00000000E+00	# Real(UV(1,10), dp)
2	1	-0.00000000E+00	# Real(UV(2,1), dp)
2	2	0.00000000E+00	# Real(UV(2,2), dp)
2	3	-0.00000000E+00	# Real(UV(2,3), dp)
2	4	-0.00000000E+00	# Real(UV(2,4), dp)
2	5	0.00000000E+00	# Real(UV(2,5), dp)
2	6	0.00000000E+00	# Real(UV(2,6), dp)
2	7	0.00000000E+00	# Real(UV(2,7), dp)
2	8	0.00000000E+00	# Real(UV(2,8), dp)
2	9	-0.00000000E+00	# Real(UV(2,9), dp)
2	10	0.00000000E+00	# Real(UV(2,10), dp)
3	1	-0.00000000E+00	# Real(UV(3,1), dp)
3	2	-0.00000000E+00	# Real(UV(3,2), dp)
3	3	-0.00000000E+00	# Real(UV(3,3), dp)
3	4	-0.00000000E+00	# Real(UV(3,4), dp)
3	5	0.00000000E+00	# Real(UV(3,5), dp)
3	6	-0.00000000E+00	# Real(UV(3,6), dp)
3	7	0.00000000E+00	# Real(UV(3,7), dp)
3	8	-0.00000000E+00	# Real(UV(3,8), dp)
3	9	0.00000000E+00	# Real(UV(3,9), dp)
3	10	-0.00000000E+00	# Real(UV(3,10), dp)
4	1	-3.55801986E-07	# Real(UV(4,1), dp)
4	2	-7.15957187E-07	# Real(UV(4,2), dp)
4	3	-1.34047959E-07	# Real(UV(4,3), dp)
4	4	5.37542863E-02	# Real(UV(4,4), dp)
4	5	-4.09601119E-02	# Real(UV(4,5), dp)
4	6	7.04096449E-01	# Real(UV(4,6), dp)
4	7	-7.01139437E-01	# Real(UV(4,7), dp)
4	8	5.39243159E-02	# Real(UV(4,8), dp)
4	9	5.18334967E-02	# Real(UV(4,9), dp)
4	10	4.98987188E-02	# Real(UV(4,10), dp)
5	1	0.00000000E+00	# Real(UV(5,1), dp)
5	2	0.00000000E+00	# Real(UV(5,2), dp)
5	3	0.00000000E+00	# Real(UV(5,3), dp)
5	4	0.00000000E+00	# Real(UV(5,4), dp)
5	5	-0.00000000E+00	# Real(UV(5,5), dp)
5	6	-0.00000000E+00	# Real(UV(5,6), dp)
5	7	-0.00000000E+00	# Real(UV(5,7), dp)
5	8	-0.00000000E+00	# Real(UV(5,8), dp)
5	9	-0.00000000E+00	# Real(UV(5,9), dp)
5	10	-0.00000000E+00	# Real(UV(5,10), dp)
6	1	-6.46019623E-08	# Real(UV(6,1), dp)
6	2	-2.46074283E-10	# Real(UV(6,2), dp)
6	3	-1.52506511E-09	# Real(UV(6,3), dp)
6	4	1.83459507E-03	# Real(UV(6,4), dp)

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6 5 -1.61118688E-03 # Real(UV(6,5),dp)
6 6 4.64381588E-02 # Real(UV(6,6),dp)
6 7 -2.01242948E-02 # Real(UV(6,7),dp)
6 8 -9.93986269E-01 # Real(UV(6,8),dp)
6 9 8.75912648E-02 # Real(UV(6,9),dp)
6 10 4.18523151E-02 # Real(UV(6,10),dp)
7 1 1.02478085E-08 # Real(UV(7,1),dp)
7 2 1.27119711E-07 # Real(UV(7,2),dp)
7 3 8.52821353E-10 # Real(UV(7,3),dp)
7 4 -1.95254780E-03 # Real(UV(7,4),dp)
7 5 1.74019106E-03 # Real(UV(7,5),dp)
7 6 -5.07216005E-02 # Real(UV(7,6),dp)
7 7 2.14331827E-02 # Real(UV(7,7),dp)
7 8 8.04606492E-02 # Real(UV(7,8),dp)
7 9 9.90630890E-01 # Real(UV(7,9),dp)
7 10 -9.55909069E-02 # Real(UV(7,10),dp)
8 1 8.61136460E-09 # Real(UV(8,1),dp)
8 2 2.21678734E-08 # Real(UV(8,2),dp)
8 3 1.66732960E-08 # Real(UV(8,3),dp)
8 4 -2.13070099E-03 # Real(UV(8,4),dp)
8 5 1.92974018E-03 # Real(UV(8,5),dp)
8 6 -5.68526359E-02 # Real(UV(8,6),dp)
8 7 2.34336733E-02 # Real(UV(8,7),dp)
8 8 4.64860547E-02 # Real(UV(8,8),dp)
8 9 8.86254056E-02 # Real(UV(8,9),dp)
8 10 9.93073492E-01 # Real(UV(8,10),dp)
9 1 -2.06772705E-08 # Real(UV(9,1),dp)
9 2 -6.11935973E-08 # Real(UV(9,2),dp)
9 3 -1.05061442E-07 # Real(UV(9,3),dp)
9 4 9.98283006E-01 # Real(UV(9,4),dp)
9 5 5.04485458E-03 # Real(UV(9,5),dp)
9 6 -2.20380257E-02 # Real(UV(9,6),dp)
9 7 5.40329086E-02 # Real(UV(9,7),dp)
9 8 -3.34769361E-04 # Real(UV(9,8),dp)
9 9 -3.46017684E-04 # Real(UV(9,9),dp)
9 10 -3.58054041E-04 # Real(UV(9,10),dp)
10 1 -2.41993459E-08 # Real(UV(10,1),dp)
10 2 -6.71384884E-08 # Real(UV(10,2),dp)
10 3 -1.01009798E-07 # Real(UV(10,3),dp)
10 4 2.26108105E-03 # Real(UV(10,4),dp)
10 5 -9.98838326E-01 # Real(UV(10,5),dp)
10 6 -1.18568855E-02 # Real(UV(10,6),dp)
10 7 4.66501587E-02 # Real(UV(10,7),dp)
10 8 1.43757352E-04 # Real(UV(10,8),dp)
10 9 1.45120398E-04 # Real(UV(10,9),dp)
10 10 1.46507080E-04 # Real(UV(10,10),dp)

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Block IMUVMIX # ()

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1 1 -8.52185275E-01 # Aimag(UV(1,1))
1 2 -2.61040840E-01 # Aimag(UV(1,2))
1 3 4.53473194E-01 # Aimag(UV(1,3))
1 4 6.08632690E-10 # Aimag(UV(1,4))
1 5 -4.24996221E-10 # Aimag(UV(1,5))
1 6 -6.10012668E-07 # Aimag(UV(1,6))
1 7 -3.51485561E-11 # Aimag(UV(1,7))
1 8 2.54486728E-08 # Aimag(UV(1,8))
1 9 5.63242479E-09 # Aimag(UV(1,9))
1 10 -3.10105612E-08 # Aimag(UV(1,10))
2 1 -4.81221374E-01 # Aimag(UV(2,1))
2 2 7.31288785E-01 # Aimag(UV(2,2))
2 3 -4.83366013E-01 # Aimag(UV(2,3))
2 4 -7.01778223E-09 # Aimag(UV(2,4))
2 5 6.52057725E-09 # Aimag(UV(2,5))
2 6 4.09481751E-07 # Aimag(UV(2,6))
2 7 2.51238068E-10 # Aimag(UV(2,7))
2 8 4.58446421E-08 # Aimag(UV(2,8))
2 9 -6.89781554E-08 # Aimag(UV(2,9))
2 10 2.33828961E-08 # Aimag(UV(2,10))
3 1 -2.05441591E-01 # Aimag(UV(3,1))
3 2 -6.30138392E-01 # Aimag(UV(3,2))
3 3 -7.48811965E-01 # Aimag(UV(3,3))
3 4 -1.41720860E-07 # Aimag(UV(3,4))
3 5 1.33251767E-07 # Aimag(UV(3,5))
3 6 -8.61780957E-07 # Aimag(UV(3,6))

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3 7 6.11546666E-09 # Aimag(UV(3,7))
3 8 -2.38226902E-08 # Aimag(UV(3,8))
3 9 3.84849839E-08 # Aimag(UV(3,9))
3 10 -2.39429745E-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 3.49490600E-07 # Aimag(UV(5,1))
5 2 6.98904943E-07 # Aimag(UV(5,2))
5 3 1.11964084E-07 # Aimag(UV(5,3))
5 4 2.29060361E-02 # Aimag(UV(5,4))
5 5 -2.46874322E-02 # Aimag(UV(5,5))
5 6 -7.04031622E-01 # Aimag(UV(5,6))
5 7 -7.08444910E-01 # Aimag(UV(5,7))
5 8 -2.11769569E-02 # Aimag(UV(5,8))
5 9 -2.09020571E-02 # Aimag(UV(5,9))
5 10 -2.06341770E-02 # Aimag(UV(5,10))
6 1 0.00000000E+00 # Aimag(UV(6,1))
6 2 0.00000000E+00 # Aimag(UV(6,2))
6 3 0.00000000E+00 # Aimag(UV(6,3))
6 4 0.00000000E+00 # Aimag(UV(6,4))
6 5 0.00000000E+00 # Aimag(UV(6,5))
6 6 0.00000000E+00 # Aimag(UV(6,6))
6 7 0.00000000E+00 # Aimag(UV(6,7))
6 8 0.00000000E+00 # Aimag(UV(6,8))
6 9 0.00000000E+00 # Aimag(UV(6,9))
6 10 0.00000000E+00 # Aimag(UV(6,10))
7 1 0.00000000E+00 # Aimag(UV(7,1))
7 2 0.00000000E+00 # Aimag(UV(7,2))
7 3 0.00000000E+00 # Aimag(UV(7,3))
7 4 0.00000000E+00 # Aimag(UV(7,4))
7 5 0.00000000E+00 # Aimag(UV(7,5))
7 6 0.00000000E+00 # Aimag(UV(7,6))
7 7 0.00000000E+00 # Aimag(UV(7,7))
7 8 0.00000000E+00 # Aimag(UV(7,8))
7 9 0.00000000E+00 # Aimag(UV(7,9))
7 10 0.00000000E+00 # Aimag(UV(7,10))
8 1 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      4.91092990E-06 # Real(ZER(1,2),dp)
 1 3      7.69408425E-09 # Real(ZER(1,3),dp)
 1 4     -4.25609589E-08 # Real(ZER(1,4),dp)
 1 5      5.03196107E-07 # Real(ZER(1,5),dp)
 2 1      4.91093041E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.94413094E-08 # Real(ZER(2,3),dp)
 2 4      1.11629453E-07 # Real(ZER(2,4),dp)
 2 5     -1.01051137E-06 # Real(ZER(2,5),dp)
 3 1     -7.69408723E-09 # Real(ZER(3,1),dp)
 3 2     -1.94415484E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.45572745E-07 # Real(ZER(3,4),dp)
 3 5      1.83017371E-07 # Real(ZER(3,5),dp)
 4 1      5.03833579E-07 # Real(ZER(4,1),dp)
 4 2      1.01224226E-06 # Real(ZER(4,2),dp)
 4 3      1.85430659E-07 # Real(ZER(4,3),dp)
 4 4      1.67541869E-02 # Real(ZER(4,4),dp)
 4 5     -9.99859639E-01 # Real(ZER(4,5),dp)
 5 1      3.41238773E-08 # Real(ZER(5,1),dp)
 5 2      9.46836533E-08 # Real(ZER(5,2),dp)
 5 3      1.42486007E-07 # Real(ZER(5,3),dp)
 5 4      9.99859639E-01 # Real(ZER(5,4),dp)
 5 5      1.67541869E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      5.71583770E-13 # Real(ZEL(1,2),dp)
 1 3      4.51613679E-14 # Real(ZEL(1,3),dp)
 1 4     -7.40540307E-13 # Real(ZEL(1,4),dp)
 1 5      1.15004902E-11 # Real(ZEL(1,5),dp)
 2 1      5.71583805E-13 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -2.51376676E-11 # Real(ZEL(2,3),dp)
 2 4      4.10730430E-10 # Real(ZEL(2,4),dp)
 2 5     -6.37858764E-09 # Real(ZEL(2,5),dp)
 3 1     -4.51629816E-14 # Real(ZEL(3,1),dp)
 3 2     -2.51385412E-11 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -9.11851027E-09 # Real(ZEL(3,4),dp)
 3 5      1.41516406E-07 # Real(ZEL(3,5),dp)
 4 1      1.15242905E-11 # Real(ZEL(4,1),dp)
 4 2      6.39178820E-09 # Real(ZEL(4,2),dp)
 4 3      1.41809670E-07 # Real(ZEL(4,3),dp)
 4 4      6.59933185E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97820065E-01 # Real(ZEL(4,5),dp)
 5 1     -2.00295324E-14 # Real(ZEL(5,1),dp)
 5 2     -1.11091015E-11 # Real(ZEL(5,2),dp)
 5 3     -2.40504707E-10 # Real(ZEL(5,3),dp)
 5 4      9.97820065E-01 # Real(ZEL(5,4),dp)
 5 5      6.59933185E-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 -2.16840434E-19 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 2.16840434E-19 # Real(ZUR(2,1),dp)
 2 2 1.00000000E+00 # Real(ZUR(2,2),dp)
 2 3 0.00000000E+00 # Real(ZUR(2,3),dp)
 3 1 0.00000000E+00 # Real(ZUR(3,1),dp)
 3 2 0.00000000E+00 # Real(ZUR(3,2),dp)
 3 3 1.00000000E+00 # Real(ZUR(3,3),dp)
DECAY 25 2.93085696E-03 # hh_1
# BR NDA ID1 ID2
 2.94515777E-03 2 22 22 # BR(hh_1 -> VP VP )
 1.12177376E-01 2 21 21 # BR(hh_1 -> VG VG )
 2.09857870E-02 2 23 23 # BR(hh_1 -> VZ VZ )
 2.09073316E-01 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
 6.74269766E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
 2.53728042E-28 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
 1.02272278E-24 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
 2.53728042E-28 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
 3.01209890E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
 4.65574296E-24 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
 1.02272278E-24 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
 4.65574296E-24 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
 8.69401063E-02 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
 5.43629560E-26 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
 2.10183398E-27 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
 7.61975343E-25 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
 1.23418628E-24 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
 8.61313022E-25 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
 2.23573056E-22 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
 5.63319482E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
 2.02620838E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
 5.42128348E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
 1.06293623E-07 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
 2.52454015E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 1.21570227E-04 # hh_2
# BR NDA ID1 ID2
 9.10477249E-13 2 22 22 # BR(hh_2 -> VP VP )
 7.56685120E-10 2 21 21 # BR(hh_2 -> VG VG )
 3.55269819E-18 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
 6.27471859E-11 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
 2.52295516E-24 2 -11 -1000024 # BR(hh_2 -> Cha_1^* Cha_4 )
 1.58706772E-13 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
 2.56376054E-10 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
 5.30789261E-24 2 -13 -1000024 # BR(hh_2 -> Cha_2^* Cha_4 )
 6.27471859E-11 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
 2.56376054E-10 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
 1.47323991E-10 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
 3.35176691E-01 2 -15 -1000024 # BR(hh_2 -> Cha_3^* Cha_4 )
 2.52295516E-24 2 1000024 11 # BR(hh_2 -> Cha_4^* Cha_1 )
 5.30789261E-24 2 1000024 13 # BR(hh_2 -> Cha_4^* Cha_2 )
 3.35176691E-01 2 1000024 15 # BR(hh_2 -> Cha_4^* Cha_3 )
 2.44353911E-15 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )
 2.65752774E-13 2 12 14 # BR(hh_2 -> Chi_1 Chi_2 )
 9.58208480E-11 2 12 16 # BR(hh_2 -> Chi_1 Chi_3 )
 6.75628127E-02 2 12 1000022 # BR(hh_2 -> Chi_1 Chi_4 )
 2.25019123E-04 2 12 1000023 # BR(hh_2 -> Chi_1 Chi_5 )
 5.19752431E-13 2 14 14 # BR(hh_2 -> Chi_2 Chi_2 )
 1.24596874E-10 2 14 16 # BR(hh_2 -> Chi_2 Chi_3 )
 7.67638419E-02 2 14 1000022 # BR(hh_2 -> Chi_2 Chi_4 )
 2.55663311E-04 2 14 1000023 # BR(hh_2 -> Chi_2 Chi_5 )
 5.16411165E-10 2 16 16 # BR(hh_2 -> Chi_3 Chi_3 )

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1.84225622E-01	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
6.13566641E-04	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
2.96810595E-16	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
1.06760058E-13	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
2.86524750E-10	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
5.74806387E-17	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
1.36547437E-11	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
4.90981856E-08	2		25	25	# BR(hh_2 -> hh_1 hh_1)
2.78862856E-08	2		-24	24	# BR(hh_2 -> Vwm Vwm^*)
1.23777571E-08	2		23	23	# BR(hh_2 -> VZ VZ)
DECAY	1000012	1.06456266E-02	# hh_3		
#	BR	NDA	ID1	ID2	
8.11561240E-06	2		22	22	# BR(hh_3 -> VP VP)
8.65307481E-04	2		21	21	# BR(hh_3 -> VG VG)
5.34402798E-11	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
7.01808221E-29	2		-11	13	# BR(hh_3 -> Cha_1^* Cha_2)
3.59340130E-26	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3)
1.56830817E-12	2		-11	-1000024	# BR(hh_3 -> Cha_1^* Cha_4)
7.01808221E-29	2		-13	11	# BR(hh_3 -> Cha_2^* Cha_1)
2.38729456E-06	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
7.87668019E-25	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
1.78593024E-12	2		-13	-1000024	# BR(hh_3 -> Cha_2^* Cha_4)
3.59340130E-26	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1)
7.87668019E-25	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
6.89839731E-04	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
5.32497661E-14	2		-15	-1000024	# BR(hh_3 -> Cha_3^* Cha_4)
1.56830817E-12	2		1000024	11	# BR(hh_3 -> Cha_4^* Cha_1)
1.78593024E-12	2		1000024	13	# BR(hh_3 -> Cha_4^* Cha_2)
5.32497661E-14	2		1000024	15	# BR(hh_3 -> Cha_4^* Cha_3)
6.06568860E-29	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
4.78365058E-29	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
2.12079509E-25	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
7.20036616E-13	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
5.37173681E-13	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
1.46877042E-28	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
7.96000431E-26	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
2.55819006E-12	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
2.00913928E-12	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
5.08176876E-27	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
5.94991210E-13	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
4.89247965E-13	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)
4.46467462E-09	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1)
1.60590261E-06	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2)
4.31093399E-03	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3)
2.75470085E-11	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1)
6.54398600E-06	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2)
6.47721176E-02	2		-6	6	# BR(hh_3 -> Fu_3^* Fu_3)
2.71501652E-01	2		25	25	# BR(hh_3 -> hh_1 hh_1)
4.48775740E-01	2		-24	24	# BR(hh_3 -> Vwm Vwm^*)
2.09065752E-01	2		23	23	# BR(hh_3 -> VZ VZ)
DECAY	1000014	1.37629714E-02	# hh_4		
#	BR	NDA	ID1	ID2	
9.17598716E-06	2		22	22	# BR(hh_4 -> VP VP)
7.98934110E-04	2		21	21	# BR(hh_4 -> VG VG)
8.47543231E-16	2		36	23	# BR(hh_4 -> Ah_2 VZ)
5.72831071E-11	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
5.07649187E-28	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
8.30879524E-26	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
1.19030577E-13	2		-11	-1000024	# BR(hh_4 -> Cha_1^* Cha_4)
5.07649187E-28	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)
2.55896217E-06	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2)
1.18119250E-25	2		-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
5.79119056E-12	2		-13	-1000024	# BR(hh_4 -> Cha_2^* Cha_4)
8.30879524E-26	2		-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
1.18119250E-25	2		-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
7.39452762E-04	2		-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
6.42162990E-14	2		-15	-1000024	# BR(hh_4 -> Cha_3^* Cha_4)
1.19030577E-13	2		1000024	11	# BR(hh_4 -> Cha_4^* Cha_1)
5.79119056E-12	2		1000024	13	# BR(hh_4 -> Cha_4^* Cha_2)
6.42162990E-14	2		1000024	15	# BR(hh_4 -> Cha_4^* Cha_3)
2.04174069E-30	2		12	12	# BR(hh_4 -> Chi_1 Chi_1)
9.92548765E-28	2		12	14	# BR(hh_4 -> Chi_1 Chi_2)
2.34010359E-25	2		12	16	# BR(hh_4 -> Chi_1 Chi_3)

2.05567198E-13	2		12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
1.43332028E-13	2		12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
1.86625065E-26	2		14	14	# BR(hh_4 -> Chi_2 Chi_2)
1.19580325E-24	2		14	16	# BR(hh_4 -> Chi_2 Chi_3)
4.66147669E-12	2		14	1000022	# BR(hh_4 -> Chi_2 Chi_4)
3.54888631E-12	2		14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
2.75216018E-24	2		16	16	# BR(hh_4 -> Chi_3 Chi_3)
1.85560514E-12	2		16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
1.33014216E-12	2		16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
4.78572406E-09	2		-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.72138117E-06	2		-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
4.62103767E-03	2		-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
2.41803583E-11	2		-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
5.74422252E-06	2		-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
8.20690306E-02	2		-6	6	# BR(hh_4 -> Fu_3^* Fu_3)
2.64080137E-01	2		25	25	# BR(hh_4 -> hh_1 hh_1)
7.00385461E-16	2		37	24	# BR(hh_4 -> Hpm_2 Vwm^*)
7.00385461E-16	2		-37	-24	# BR(hh_4 -> Hpm_2^* Vwm)
4.41051033E-01	2		-24	24	# BR(hh_4 -> Vwm Vwm^*)
2.06621170E-01	2		23	23	# BR(hh_4 -> VZ VZ)
DECAY	1000016	1.99993144E-02	# hh_5		
#	BR	NDA	ID1	ID2	
1.06246806E-05	2		22	22	# BR(hh_5 -> VP VP)
7.37884994E-04	2		21	21	# BR(hh_5 -> VG VG)
1.63502991E-11	2		36	23	# BR(hh_5 -> Ah_2 VZ)
6.19104018E-11	2		-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
7.68793327E-29	2		-11	13	# BR(hh_5 -> Cha_1^* Cha_2)
5.91061033E-25	2		-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
2.44757349E-13	2		-11	-1000024	# BR(hh_5 -> Cha_1^* Cha_4)
7.68793327E-29	2		-13	11	# BR(hh_5 -> Cha_2^* Cha_1)
2.76567367E-06	2		-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
2.23537850E-24	2		-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
6.18620903E-13	2		-13	-1000024	# BR(hh_5 -> Cha_2^* Cha_4)
5.91061033E-25	2		-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
2.23537850E-24	2		-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
7.99192379E-04	2		-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
3.69821942E-13	2		-15	-1000024	# BR(hh_5 -> Cha_3^* Cha_4)
2.44757349E-13	2		1000024	11	# BR(hh_5 -> Cha_4^* Cha_1)
6.18620903E-13	2		1000024	13	# BR(hh_5 -> Cha_4^* Cha_2)
3.69821942E-13	2		1000024	15	# BR(hh_5 -> Cha_4^* Cha_3)
1.52168250E-28	2		12	12	# BR(hh_5 -> Chi_1 Chi_1)
2.12872036E-27	2		12	14	# BR(hh_5 -> Chi_1 Chi_2)
3.92732793E-25	2		12	16	# BR(hh_5 -> Chi_1 Chi_3)
4.34302608E-13	2		12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
4.32342688E-13	2		12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
2.85184633E-27	2		14	14	# BR(hh_5 -> Chi_2 Chi_2)
5.93276798E-25	2		14	16	# BR(hh_5 -> Chi_2 Chi_3)
1.18526564E-13	2		14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
1.40889178E-13	2		14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
7.03797463E-25	2		16	16	# BR(hh_5 -> Chi_3 Chi_3)
4.17668375E-13	2		16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
3.08440457E-13	2		16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
5.17231189E-09	2		-1	1	# BR(hh_5 -> Fd_1^* Fd_1)
1.86043329E-06	2		-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
4.99442469E-03	2		-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
2.14698815E-11	2		-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
5.10033454E-06	2		-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
9.39747636E-02	2		-6	6	# BR(hh_5 -> Fu_3^* Fu_3)
2.58358887E-01	2		25	25	# BR(hh_5 -> hh_1 hh_1)
5.00038845E-12	2		25	35	# BR(hh_5 -> hh_1 hh_2)
1.44243489E-11	2		37	24	# BR(hh_5 -> Hpm_2 Vwm^*)
1.44243489E-11	2		-37	-24	# BR(hh_5 -> Hpm_2^* Vwm)
4.35895543E-01	2		-24	24	# BR(hh_5 -> Vwm Vwm^*)
2.05218948E-01	2		23	23	# BR(hh_5 -> VZ VZ)
DECAY	2000012	2.37190382E-02	# hh_6		
#	BR	NDA	ID1	ID2	
1.36541712E-14	2		22	22	# BR(hh_6 -> VP VP)
8.27934908E-12	2		21	21	# BR(hh_6 -> VG VG)
2.37917610E-12	2		36	36	# BR(hh_6 -> Ah_2 Ah_2)
4.46448834E-22	2		36	23	# BR(hh_6 -> Ah_2 VZ)
1.41038561E-20	2		-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
2.29913963E-15	2		-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
1.11779038E-23	2		-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)

2.29913963E-15	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
2.83419891E-14	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
9.69491146E-15	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
2.88192876E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
9.69491146E-15	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
1.82075168E-13	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
1.85620586E-22	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
1.11779038E-23	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1)
2.88192876E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2)
1.85620586E-22	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3)
1.99212605E-14	2	1000024	-1000024	# BR(hh_6 -> Cha_4^* Cha_4)
8.57373283E-18	2	12	12	# BR(hh_6 -> Chi_1 Chi_1)
1.16482182E-15	2	12	14	# BR(hh_6 -> Chi_1 Chi_2)
3.26519966E-13	2	12	16	# BR(hh_6 -> Chi_1 Chi_3)
2.27515910E-02	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
6.11174207E-03	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
1.26784400E-06	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
8.96822805E-07	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
5.59711329E-07	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
1.25967674E-14	2	14	14	# BR(hh_6 -> Chi_2 Chi_2)
2.39138403E-12	2	14	16	# BR(hh_6 -> Chi_2 Chi_3)
1.78555274E-01	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
4.79651634E-02	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
9.95008366E-06	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
7.03829642E-06	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
4.39263389E-06	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
3.87221023E-12	2	16	16	# BR(hh_6 -> Chi_3 Chi_3)
1.32576557E-01	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
3.56139367E-02	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
7.38789623E-06	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
5.22590617E-06	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
3.26151261E-06	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
3.43300179E-14	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4)
5.88575726E-16	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5)
1.18334039E-13	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5)
1.17830838E-18	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
4.23826729E-16	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
1.13792780E-12	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
2.10839816E-19	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
5.00869667E-14	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
2.49357473E-09	2	-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
7.47694383E-11	2	25	25	# BR(hh_6 -> hh_1 hh_1)
2.64466925E-21	2	25	35	# BR(hh_6 -> hh_1 hh_2)
1.02114602E-12	2	25	1000012	# BR(hh_6 -> hh_1 hh_3)
2.13638512E-10	2	25	1000014	# BR(hh_6 -> hh_1 hh_4)
6.81124337E-12	2	25	1000016	# BR(hh_6 -> hh_1 hh_5)
2.37917610E-12	2	35	35	# BR(hh_6 -> hh_2 hh_2)
2.73771335E-22	2	37	24	# BR(hh_6 -> Hpm_2 VWm^*)
2.73771335E-22	2	-37	-24	# BR(hh_6 -> Hpm_2^* VWm)
6.19136081E-11	2	-24	24	# BR(hh_6 -> VWm VWm^*)
3.01327266E-11	2	23	23	# BR(hh_6 -> VZ VZ)
DECAY 2000014	1.18615048E-01	# hh_7		
#	NDA	ID1	ID2	
5.74444616E-16	2	22	22	# BR(hh_7 -> VP VP)
3.02871851E-13	2	21	21	# BR(hh_7 -> VG VG)
1.23374598E-13	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
9.65735602E-24	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
8.17572242E-23	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)
3.82259057E-23	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
9.10967278E-24	2	36	23	# BR(hh_7 -> Ah_2 VZ)
2.46869875E-24	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
2.14925300E-12	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
3.01080666E-11	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
1.75832588E-11	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
4.78033971E-20	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
6.47117842E-18	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
3.14819472E-15	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
1.33403894E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
6.47117842E-18	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
3.13481368E-17	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
1.01537034E-23	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
3.14819472E-15	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
9.05944527E-15	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)

2.12401360E-23	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
1.33403894E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
1.01537034E-23	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
2.12401360E-23	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)
3.45968844E-15	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)
3.06125431E-17	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)
2.63383912E-15	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)
1.18427063E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)
1.12514410E-01	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)
3.11494528E-02	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)
8.93776785E-05	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)
9.95527623E-05	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
1.16615964E-04	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
3.88489250E-01	2	12	1000055	# BR(hh_7 -> Chi_1 Chi_9)
1.82746651E-15	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)
3.94331171E-13	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)
3.58781393E-02	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
9.93281136E-03	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
2.85003922E-05	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
3.17449817E-05	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
3.71860262E-05	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
1.23879879E-01	2	14	1000055	# BR(hh_7 -> Chi_2 Chi_9)
1.37892967E-13	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)
6.53908276E-03	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
1.81033568E-03	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
5.19442834E-06	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
5.78578117E-06	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
6.77745580E-06	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
2.25781157E-02	2	16	1000055	# BR(hh_7 -> Chi_3 Chi_9)
5.30938366E-14	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
8.68936773E-16	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)
3.04041393E-13	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)
4.68381519E-14	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)
7.45472419E-14	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)
8.12484787E-14	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)
3.33690221E-12	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)
5.08202871E-13	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)
5.61196533E-13	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)
5.86266869E-20	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)
2.10874831E-17	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)
5.66211191E-14	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)
9.01210079E-21	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)
2.14091575E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)
1.48030583E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)
8.66248997E-13	2	25	25	# BR(hh_7 -> hh_1 hh_1)
3.90226964E-23	2	25	35	# BR(hh_7 -> hh_1 hh_2)
5.59575655E-11	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)
8.52830880E-13	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)
4.24101482E-13	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)
1.48324927E-23	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)
1.23374598E-13	2	35	35	# BR(hh_7 -> hh_2 hh_2)
4.68308446E-22	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)
6.27675949E-24	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)
9.04314666E-24	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)
6.90100718E-13	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)
6.05646705E-14	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)
4.75907141E-14	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)
4.75405879E-23	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)
9.49098809E-16	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)
1.70613395E-15	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)
6.93481798E-24	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)
5.46873936E-16	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)
7.26640953E-14	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)
4.95485721E-24	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^*)
4.95485721E-24	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)
1.71756580E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^*)
1.71756580E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm)
1.85054938E-12	2	-24	24	# BR(hh_7 -> Vwm Vwm^*)
9.18407324E-13	2	23	23	# BR(hh_7 -> VZ VZ)
DECAY	2000016	1.65239609E+01	#	hh_8
#	BR	NDA	ID1	ID2
2.86930354E-07	2	22	22	# BR(hh_8 -> VP VP)
5.39847694E-05	2	21	21	# BR(hh_8 -> VG VG)

1.11426363E-05	2	36	36	# BR(hh_8 -> Ah_2 Ah_2)
1.26158975E-25	2	36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
1.14006338E-17	2	36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
4.21355820E-18	2	36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
8.21431304E-14	2	36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
8.84016483E-28	2	36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
9.89695319E-06	2	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
2.85138693E-17	2	1000017	1000018	# BR(hh_8 -> Ah_3 Ah_4)
1.12743455E-18	2	1000017	1000019	# BR(hh_8 -> Ah_3 Ah_5)
3.06042131E-14	2	1000017	2000018	# BR(hh_8 -> Ah_3 Ah_6)
1.78722370E-27	2	1000017	2000019	# BR(hh_8 -> Ah_3 Ah_7)
1.22809217E-05	2	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
8.16514884E-14	2	1000018	1000019	# BR(hh_8 -> Ah_4 Ah_5)
1.38508330E-09	2	1000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
2.85820428E-17	2	1000018	2000019	# BR(hh_8 -> Ah_4 Ah_7)
1.19038638E-05	2	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
1.52482753E-09	2	1000019	2000018	# BR(hh_8 -> Ah_5 Ah_6)
3.31289222E-16	2	1000019	2000019	# BR(hh_8 -> Ah_5 Ah_7)
1.20309768E-05	2	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
1.90697822E-15	2	2000018	2000019	# BR(hh_8 -> Ah_6 Ah_7)
6.00820111E-06	2	2000019	2000019	# BR(hh_8 -> Ah_7 Ah_7)
1.15126566E-15	2	36	23	# BR(hh_8 -> Ah_2 VZ)
2.23224416E-14	2	1000017	23	# BR(hh_8 -> Ah_3 VZ)
2.84691385E-06	2	1000018	23	# BR(hh_8 -> Ah_4 VZ)
3.09009900E-06	2	1000019	23	# BR(hh_8 -> Ah_5 VZ)
1.62003266E-02	2	2000018	23	# BR(hh_8 -> Ah_6 VZ)
2.01818476E-16	2	2000019	23	# BR(hh_8 -> Ah_7 VZ)
2.36709300E-09	2	-11	11	# BR(hh_8 -> Cha_1^* Cha_1)
3.58018373E-27	2	-11	13	# BR(hh_8 -> Cha_1^* Cha_2)
1.94863841E-24	2	-11	15	# BR(hh_8 -> Cha_1^* Cha_3)
4.83604721E-16	2	-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)
2.99277327E-14	2	-11	-1000037	# BR(hh_8 -> Cha_1^* Cha_5)
3.58018373E-27	2	-13	11	# BR(hh_8 -> Cha_2^* Cha_1)
1.05743285E-04	2	-13	13	# BR(hh_8 -> Cha_2^* Cha_2)
7.96425827E-24	2	-13	15	# BR(hh_8 -> Cha_2^* Cha_3)
1.81061349E-15	2	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)
1.19153632E-13	2	-13	-1000037	# BR(hh_8 -> Cha_2^* Cha_5)
1.94863841E-24	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
7.96425827E-24	2	-15	13	# BR(hh_8 -> Cha_3^* Cha_2)
3.05597080E-02	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
1.13949408E-15	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
3.93913053E-15	2	-15	-1000037	# BR(hh_8 -> Cha_3^* Cha_5)
4.83604721E-16	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
1.81061349E-15	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
1.13949408E-15	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
5.47579605E-03	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
1.12041031E-01	2	1000024	-1000037	# BR(hh_8 -> Cha_4^* Cha_5)
2.99277327E-14	2	1000037	11	# BR(hh_8 -> Cha_5^* Cha_1)
1.19153632E-13	2	1000037	13	# BR(hh_8 -> Cha_5^* Cha_2)
3.93913053E-15	2	1000037	15	# BR(hh_8 -> Cha_5^* Cha_3)
1.12041031E-01	2	1000037	-1000024	# BR(hh_8 -> Cha_5^* Cha_4)
3.35217980E-30	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
2.68845592E-29	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
1.00175739E-26	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
1.08654594E-15	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
3.27917656E-16	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
1.52979112E-16	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
1.86452238E-17	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
2.90016714E-16	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
4.86750671E-14	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
4.54675366E-14	2	12	1000065	# BR(hh_8 -> Chi_1 Chi_10)
1.10845244E-28	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
2.99904732E-27	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
2.81183358E-16	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
3.14543421E-16	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
7.12306114E-16	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
1.21535861E-15	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
1.16633170E-16	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
2.11934826E-14	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
1.97729774E-14	2	14	1000065	# BR(hh_8 -> Chi_2 Chi_10)
3.95829340E-26	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
2.19609448E-14	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
1.04078131E-14	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)

5.39687095E-16	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
9.41411971E-17	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
5.48800471E-16	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
9.49879749E-14	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
8.97535459E-14	2	16	1000065	# BR(hh_8 -> Chi_3 Chi_10)
1.83215574E-04	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
1.27041143E-03	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
2.07908706E-02	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
2.62735264E-02	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
3.48786567E-02	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
4.53311703E-02	2	1000022	1000055	# BR(hh_8 -> Chi_4 Chi_9)
2.46282151E-02	2	1000022	1000065	# BR(hh_8 -> Chi_4 Chi_10)
4.96005776E-04	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
1.56294387E-02	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
1.98341512E-02	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
2.64393465E-02	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
8.34333276E-02	2	1000023	1000055	# BR(hh_8 -> Chi_5 Chi_9)
8.79046959E-02	2	1000023	1000065	# BR(hh_8 -> Chi_5 Chi_10)
1.90324093E-04	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
8.65337921E-05	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
1.09148834E-04	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
2.51379853E-05	2	1000025	1000055	# BR(hh_8 -> Chi_6 Chi_9)
4.20007030E-06	2	1000025	1000065	# BR(hh_8 -> Chi_6 Chi_10)
2.28711038E-04	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
1.30305981E-04	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
2.67111735E-05	2	1000039	1000055	# BR(hh_8 -> Chi_7 Chi_9)
3.28064224E-06	2	1000039	1000065	# BR(hh_8 -> Chi_7 Chi_10)
2.93358362E-04	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
2.97307978E-05	2	1000045	1000055	# BR(hh_8 -> Chi_8 Chi_9)
2.30887180E-06	2	1000045	1000065	# BR(hh_8 -> Chi_8 Chi_10)
2.82135811E-05	2	1000055	1000055	# BR(hh_8 -> Chi_9 Chi_9)
1.97759043E-07	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
7.11321253E-05	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
1.90998098E-01	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
3.63634063E-12	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
8.63850340E-07	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
6.68049335E-02	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
2.19486296E-05	2	25	25	# BR(hh_8 -> hh_1 hh_1)
8.39550401E-15	2	25	35	# BR(hh_8 -> hh_1 hh_2)
1.54016860E-02	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
2.12216034E-02	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
3.30253835E-02	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
1.67343373E-14	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
1.00123667E-15	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
1.11426363E-05	2	35	35	# BR(hh_8 -> hh_2 hh_2)
1.400232877E-13	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
1.93842390E-13	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
2.97080463E-13	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
6.40639890E-26	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
2.52470818E-27	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
1.50069464E-04	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
1.49290393E-05	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
2.04475088E-05	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
4.20240540E-14	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)
6.75024440E-15	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
1.70356602E-04	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
2.40092720E-05	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
5.49928757E-14	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
6.15145233E-15	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
2.07911446E-04	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
8.87881521E-14	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
9.32711832E-15	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
9.89695319E-06	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
1.43598499E-26	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7)
6.00820111E-06	2	2000014	2000014	# BR(hh_8 -> hh_7 hh_7)
4.91866993E-06	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
8.98175486E-28	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3)
6.66814108E-30	2	-37	1000013	# BR(hh_8 -> Hpm_2^* Hpm_5)
3.70030002E-04	2	-37	2000013	# BR(hh_8 -> Hpm_2^* Hpm_6)
5.50223791E-28	2	-37	1000015	# BR(hh_8 -> Hpm_2^* Hpm_7)
8.98175486E-28	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2)
5.96864347E-06	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)
6.51937744E-30	2	-1000011	2000011	# BR(hh_8 -> Hpm_3^* Hpm_4)

5.65672873E-09	2	-1000011	1000013	# BR(hh_8 -> Hpm_3^* Hpm_5)
3.84209829E-28	2	-1000011	2000013	# BR(hh_8 -> Hpm_3^* Hpm_6)
1.06980723E-28	2	-1000011	1000015	# BR(hh_8 -> Hpm_3^* Hpm_7)
6.51937744E-30	2	-2000011	1000011	# BR(hh_8 -> Hpm_4^* Hpm_3)
2.49879003E-06	2	-2000011	2000011	# BR(hh_8 -> Hpm_4^* Hpm_4)
7.43660244E-14	2	-2000011	1000015	# BR(hh_8 -> Hpm_4^* Hpm_7)
6.66814108E-30	2	-1000013	37	# BR(hh_8 -> Hpm_5^* Hpm_2)
5.65672873E-09	2	-1000013	1000011	# BR(hh_8 -> Hpm_5^* Hpm_3)
2.49733110E-06	2	-1000013	1000013	# BR(hh_8 -> Hpm_5^* Hpm_5)
3.70030002E-04	2	-2000013	37	# BR(hh_8 -> Hpm_6^* Hpm_2)
3.84209829E-28	2	-2000013	1000011	# BR(hh_8 -> Hpm_6^* Hpm_3)
2.53750415E-06	2	-2000013	2000013	# BR(hh_8 -> Hpm_6^* Hpm_6)
1.53568743E-30	2	-2000013	1000015	# BR(hh_8 -> Hpm_6^* Hpm_7)
5.50223791E-28	2	-1000015	37	# BR(hh_8 -> Hpm_7^* Hpm_2)
1.06980723E-28	2	-1000015	1000011	# BR(hh_8 -> Hpm_7^* Hpm_3)
7.43660244E-14	2	-1000015	2000011	# BR(hh_8 -> Hpm_7^* Hpm_4)
1.53568743E-30	2	-1000015	2000013	# BR(hh_8 -> Hpm_7^* Hpm_6)
3.60572229E-06	2	-1000015	1000015	# BR(hh_8 -> Hpm_7^* Hpm_7)
2.62430194E-16	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
2.62430194E-16	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
1.14976576E-16	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
1.14976576E-16	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
4.86526497E-24	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
4.86526497E-24	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
6.81929613E-19	2	1000013	24	# BR(hh_8 -> Hpm_5 Vwm^*)
6.81929613E-19	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* Vwm)
2.02169876E-15	2	2000013	24	# BR(hh_8 -> Hpm_6 Vwm^*)
2.02169876E-15	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* Vwm)
9.93623583E-18	2	1000015	24	# BR(hh_8 -> Hpm_7 Vwm^*)
9.93623583E-18	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* Vwm)
9.99383405E-07	2	-1000001	1000001	# BR(hh_8 -> Sd_1^* Sd_1)
3.00793162E-03	2	-1000001	2000005	# BR(hh_8 -> Sd_1^* Sd_6)
8.46230965E-07	2	-1000003	1000003	# BR(hh_8 -> Sd_2^* Sd_2)
2.29755845E-08	2	-1000003	2000003	# BR(hh_8 -> Sd_2^* Sd_5)
8.37753791E-07	2	-1000005	1000005	# BR(hh_8 -> Sd_3^* Sd_3)
6.44505706E-11	2	-1000005	2000001	# BR(hh_8 -> Sd_3^* Sd_4)
6.44505706E-11	2	-2000001	1000005	# BR(hh_8 -> Sd_4^* Sd_3)
2.68331801E-05	2	-2000001	2000001	# BR(hh_8 -> Sd_4^* Sd_4)
2.29755845E-08	2	-2000003	1000003	# BR(hh_8 -> Sd_5^* Sd_2)
2.67818881E-05	2	-2000003	2000003	# BR(hh_8 -> Sd_5^* Sd_5)
3.00793162E-03	2	-2000005	1000001	# BR(hh_8 -> Sd_6^* Sd_1)
1.83353353E-05	2	-1000002	1000002	# BR(hh_8 -> Su_1^* Su_1)
7.82824892E-13	2	-1000002	1000004	# BR(hh_8 -> Su_1^* Su_2)
1.36337392E-12	2	-1000002	1000006	# BR(hh_8 -> Su_1^* Su_3)
2.21996327E-09	2	-1000002	2000002	# BR(hh_8 -> Su_1^* Su_4)
2.90979437E-12	2	-1000002	2000004	# BR(hh_8 -> Su_1^* Su_5)
1.47125653E-13	2	-1000002	2000006	# BR(hh_8 -> Su_1^* Su_6)
7.82824892E-13	2	-1000004	1000002	# BR(hh_8 -> Su_2^* Su_1)
1.87373949E-05	2	-1000004	1000004	# BR(hh_8 -> Su_2^* Su_2)
9.25463490E-15	2	-1000004	1000006	# BR(hh_8 -> Su_2^* Su_3)
3.24414878E-07	2	-1000004	2000002	# BR(hh_8 -> Su_2^* Su_4)
2.28250415E-05	2	-1000004	2000004	# BR(hh_8 -> Su_2^* Su_5)
1.18043648E-06	2	-1000004	2000006	# BR(hh_8 -> Su_2^* Su_6)
1.36337392E-12	2	-1000006	1000002	# BR(hh_8 -> Su_3^* Su_1)
9.25463490E-15	2	-1000006	1000004	# BR(hh_8 -> Su_3^* Su_2)
3.35806629E-06	2	-1000006	1000006	# BR(hh_8 -> Su_3^* Su_3)
5.07247429E-22	2	-1000006	2000002	# BR(hh_8 -> Su_3^* Su_4)
8.71284087E-17	2	-1000006	2000004	# BR(hh_8 -> Su_3^* Su_5)
7.64653689E-19	2	-1000006	2000006	# BR(hh_8 -> Su_3^* Su_6)
2.21996327E-09	2	-2000002	1000002	# BR(hh_8 -> Su_4^* Su_1)
3.24414878E-07	2	-2000002	1000004	# BR(hh_8 -> Su_4^* Su_2)
5.07247429E-22	2	-2000002	1000006	# BR(hh_8 -> Su_4^* Su_3)
3.39554063E-06	2	-2000002	2000002	# BR(hh_8 -> Su_4^* Su_4)
3.02848228E-09	2	-2000002	2000004	# BR(hh_8 -> Su_4^* Su_5)
2.65718941E-11	2	-2000002	2000006	# BR(hh_8 -> Su_4^* Su_6)
2.90979437E-12	2	-2000004	1000002	# BR(hh_8 -> Su_5^* Su_1)
2.28250415E-05	2	-2000004	1000004	# BR(hh_8 -> Su_5^* Su_2)
8.71284087E-17	2	-2000004	1000006	# BR(hh_8 -> Su_5^* Su_3)
3.02848228E-09	2	-2000004	2000002	# BR(hh_8 -> Su_5^* Su_4)
5.34525017E-05	2	-2000004	2000004	# BR(hh_8 -> Su_5^* Su_5)
1.47125653E-13	2	-2000006	1000002	# BR(hh_8 -> Su_6^* Su_1)
1.18043648E-06	2	-2000006	1000004	# BR(hh_8 -> Su_6^* Su_2)
7.64653689E-19	2	-2000006	1000006	# BR(hh_8 -> Su_6^* Su_3)

	2.65718941E-11	2	-2000006	2000002	# BR(hh_8 -> Su_6^* Su_4)
	4.06583498E-05	2	-24	24	# BR(hh_8 -> VVWm VVWm^*)
	2.03583695E-05	2	23	23	# BR(hh_8 -> VZ VZ)
DECAY	36	1.21570218E-04	# Ah_2		
#	BR	NDA	ID1	ID2	
	5.21142906E-12	2	22	22	# BR(Ah_2 -> VP VP)
	2.31167373E-09	2	21	21	# BR(Ah_2 -> VG VG)
	2.09334606E-18	2	-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
	6.27471907E-11	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
	8.10954788E-24	2	-11	-1000024	# BR(Ah_2 -> Cha_1^* Cha_4)
	9.35143800E-14	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
	2.56376073E-10	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
	3.12428438E-23	2	-13	-1000024	# BR(Ah_2 -> Cha_2^* Cha_4)
	6.27471907E-11	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
	2.56376073E-10	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
	6.24162113E-11	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
	3.35176716E-01	2	-15	-1000024	# BR(Ah_2 -> Cha_3^* Cha_4)
	8.10954788E-24	2	1000024	11	# BR(Ah_2 -> Cha_4^* Cha_1)
	3.12428438E-23	2	1000024	13	# BR(Ah_2 -> Cha_4^* Cha_2)
	3.35176716E-01	2	1000024	15	# BR(Ah_2 -> Cha_4^* Cha_3)
	2.44353930E-15	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1)
	2.65752794E-13	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2)
	9.58208552E-11	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3)
	6.75628177E-02	2	12	1000022	# BR(Ah_2 -> Chi_1 Chi_4)
	2.25019140E-04	2	12	1000023	# BR(Ah_2 -> Chi_1 Chi_5)
	5.19752470E-13	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2)
	1.24596883E-10	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3)
	7.67638477E-02	2	14	1000022	# BR(Ah_2 -> Chi_2 Chi_4)
	2.55663330E-04	2	14	1000023	# BR(Ah_2 -> Chi_2 Chi_5)
	5.16411204E-10	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3)
	1.84225636E-01	2	16	1000022	# BR(Ah_2 -> Chi_3 Chi_4)
	6.13566686E-04	2	16	1000023	# BR(Ah_2 -> Chi_3 Chi_5)
	1.74888847E-16	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
	6.29059193E-14	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
	1.68893050E-10	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
	3.26245152E-17	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
	7.75026170E-12	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)
	1.29452320E-08	2	25	23	# BR(Ah_2 -> hh_1 VZ)
DECAY	1000017	2.37190382E-02	# Ah_3		
#	BR	NDA	ID1	ID2	
	1.73253413E-14	2	22	22	# BR(Ah_3 -> VP VP)
	3.39610895E-11	2	21	21	# BR(Ah_3 -> VG VG)
	5.43088003E-23	2	25	36	# BR(Ah_3 -> hh_1 Ah_2)
	9.95558857E-21	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
	2.29913962E-15	2	-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)
	6.24984857E-24	2	-11	-1000024	# BR(Ah_3 -> Cha_1^* Cha_4)
	2.29913962E-15	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
	2.30966768E-14	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
	9.69491146E-15	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
	2.88192876E-01	2	-13	-1000024	# BR(Ah_3 -> Cha_2^* Cha_4)
	9.69491146E-15	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
	1.28527121E-13	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
	1.09394354E-22	2	-15	-1000024	# BR(Ah_3 -> Cha_3^* Cha_4)
	6.24984857E-24	2	1000024	11	# BR(Ah_3 -> Cha_4^* Cha_1)
	2.88192876E-01	2	1000024	13	# BR(Ah_3 -> Cha_4^* Cha_2)
	1.09394354E-22	2	1000024	15	# BR(Ah_3 -> Cha_4^* Cha_3)
	1.20587235E-11	2	1000024	-1000024	# BR(Ah_3 -> Cha_4^* Cha_4)
	8.57373283E-18	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
	1.16482182E-15	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
	3.26519965E-13	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
	2.27515910E-02	2	12	1000022	# BR(Ah_3 -> Chi_1 Chi_4)
	6.11174207E-03	2	12	1000023	# BR(Ah_3 -> Chi_1 Chi_5)
	1.26784400E-06	2	12	1000025	# BR(Ah_3 -> Chi_1 Chi_6)
	8.96822804E-07	2	12	1000039	# BR(Ah_3 -> Chi_1 Chi_7)
	5.59711329E-07	2	12	1000045	# BR(Ah_3 -> Chi_1 Chi_8)
	1.25967674E-14	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
	2.39138402E-12	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
	1.78555274E-01	2	14	1000022	# BR(Ah_3 -> Chi_2 Chi_4)
	4.79651634E-02	2	14	1000023	# BR(Ah_3 -> Chi_2 Chi_5)
	9.95008366E-06	2	14	1000025	# BR(Ah_3 -> Chi_2 Chi_6)
	7.03829642E-06	2	14	1000039	# BR(Ah_3 -> Chi_2 Chi_7)
	4.39263388E-06	2	14	1000045	# BR(Ah_3 -> Chi_2 Chi_8)
	3.87221023E-12	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)

1.32576557E-01	2		16	1000022	# BR(Ah_3 -> Chi_3 Chi_4)
3.56139367E-02	2		16	1000023	# BR(Ah_3 -> Chi_3 Chi_5)
7.38789623E-06	2		16	1000025	# BR(Ah_3 -> Chi_3 Chi_6)
5.22590617E-06	2		16	1000039	# BR(Ah_3 -> Chi_3 Chi_7)
3.26151261E-06	2		16	1000045	# BR(Ah_3 -> Chi_3 Chi_8)
8.88313088E-12	2	1000022	1000022	# BR(Ah_3 -> Chi_4 Chi_4)	
1.62772776E-13	2	1000022	1000023	# BR(Ah_3 -> Chi_4 Chi_5)	
6.27756091E-12	2	1000023	1000023	# BR(Ah_3 -> Chi_5 Chi_5)	
8.31740864E-19	2		-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
2.99169564E-16	2		-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
8.03295289E-13	2		-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
1.83703733E-19	2		-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
4.36407099E-14	2		-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)
3.05551537E-09	2		-6	6	# BR(Ah_3 -> Fu_3^* Fu_3)
2.93859206E-11	2		25	23	# BR(Ah_3 -> hh_1 VZ)
4.44029174E-22	2		35	23	# BR(Ah_3 -> hh_2 VZ)
1.28253551E-12	2	1000012		23	# BR(Ah_3 -> hh_3 VZ)
1.85548681E-10	2	1000014		23	# BR(Ah_3 -> hh_4 VZ)
5.10237185E-12	2	1000016		23	# BR(Ah_3 -> hh_5 VZ)
1.51373662E-23	2		37	24	# BR(Ah_3 -> Hpm_2 Vwm^*)
1.51373662E-23	2		-37	-24	# BR(Ah_3 -> Hpm_2^* Vwm)
DECAY	1000018	3.14162372E-04	# Ah_4		
#	BR	NDA	ID1	ID2	
1.35114456E-05	2		22	22	# BR(Ah_4 -> VP VP)
1.70085743E-07	2		21	21	# BR(Ah_4 -> VG VG)
2.39092874E-09	2		25	36	# BR(Ah_4 -> hh_1 Ah_2)
1.28294112E-21	2		35	36	# BR(Ah_4 -> hh_2 Ah_2)
8.16008115E-13	2	1000012		36	# BR(Ah_4 -> hh_3 Ah_2)
4.86905733E-13	2		-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
2.48852682E-25	2		-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
1.22038413E-26	2		-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
3.22330344E-11	2		-11	-1000024	# BR(Ah_4 -> Cha_1^* Cha_4)
2.48852682E-25	2		-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
2.17511558E-08	2		-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
4.73663426E-24	2		-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
5.03678611E-10	2		-13	-1000024	# BR(Ah_4 -> Cha_2^* Cha_4)
1.22038413E-26	2		-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
4.73663426E-24	2		-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
6.28600034E-06	2		-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
1.92134892E-11	2		-15	-1000024	# BR(Ah_4 -> Cha_3^* Cha_4)
3.22330344E-11	2	1000024		11	# BR(Ah_4 -> Cha_4^* Cha_1)
5.03678611E-10	2	1000024		13	# BR(Ah_4 -> Cha_4^* Cha_2)
1.92134892E-11	2	1000024		15	# BR(Ah_4 -> Cha_4^* Cha_3)
5.04974842E-01	2	1000024		-1000024	# BR(Ah_4 -> Cha_4^* Cha_4)
1.10235649E-26	2		12	12	# BR(Ah_4 -> Chi_1 Chi_1)
1.77727359E-25	2		12	14	# BR(Ah_4 -> Chi_1 Chi_2)
2.48527897E-23	2		12	16	# BR(Ah_4 -> Chi_1 Chi_3)
1.62882061E-10	2		12	1000022	# BR(Ah_4 -> Chi_1 Chi_4)
1.69989493E-10	2		12	1000023	# BR(Ah_4 -> Chi_1 Chi_5)
7.62812446E-15	2		12	1000025	# BR(Ah_4 -> Chi_1 Chi_6)
6.07873669E-15	2		12	1000039	# BR(Ah_4 -> Chi_1 Chi_7)
1.39127809E-12	2		12	1000045	# BR(Ah_4 -> Chi_1 Chi_8)
7.22423914E-25	2		14	14	# BR(Ah_4 -> Chi_2 Chi_2)
2.76468137E-22	2		14	16	# BR(Ah_4 -> Chi_2 Chi_3)
2.47544354E-10	2		14	1000022	# BR(Ah_4 -> Chi_2 Chi_4)
3.02783048E-10	2		14	1000023	# BR(Ah_4 -> Chi_2 Chi_5)
9.69217555E-13	2		14	1000025	# BR(Ah_4 -> Chi_2 Chi_6)
3.41465203E-12	2		14	1000039	# BR(Ah_4 -> Chi_2 Chi_7)
9.35982361E-13	2		14	1000045	# BR(Ah_4 -> Chi_2 Chi_8)
2.43295805E-22	2		16	16	# BR(Ah_4 -> Chi_3 Chi_3)
1.50265591E-10	2		16	1000022	# BR(Ah_4 -> Chi_3 Chi_4)
1.76278017E-10	2		16	1000023	# BR(Ah_4 -> Chi_3 Chi_5)
3.47544774E-13	2		16	1000025	# BR(Ah_4 -> Chi_3 Chi_6)
8.95577074E-13	2		16	1000039	# BR(Ah_4 -> Chi_3 Chi_7)
9.15658121E-13	2		16	1000045	# BR(Ah_4 -> Chi_3 Chi_8)
2.52836081E-01	2	1000022		1000022	# BR(Ah_4 -> Chi_4 Chi_4)
3.65334126E-06	2	1000022		1000023	# BR(Ah_4 -> Chi_4 Chi_5)
2.42113138E-01	2	1000023		1000023	# BR(Ah_4 -> Chi_5 Chi_5)
4.06785987E-11	2		-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
1.46317191E-08	2		-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
3.92875668E-05	2		-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
7.38105281E-16	2		-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
1.75344515E-10	2		-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)

	1.26846964E-05	2	-6	6	# BR(Ah_4 -> Fu_3^* Fu_3)
	4.11896015E-11	2	25	23	# BR(Ah_4 -> hh_1 VZ)
	2.26688889E-09	2	35	23	# BR(Ah_4 -> hh_2 VZ)
	7.75685061E-08	2	1000012	23	# BR(Ah_4 -> hh_3 VZ)
	9.38968525E-08	2	1000014	23	# BR(Ah_4 -> hh_4 VZ)
	1.26948888E-07	2	1000016	23	# BR(Ah_4 -> hh_5 VZ)
	2.18746994E-09	2	37	24	# BR(Ah_4 -> Hpm_2 VWm^*)
	2.18746994E-09	2	-37	-24	# BR(Ah_4 -> Hpm_2^* VWm)
DECAY	1000019	3.29422391E-04	# Ah_5		
#	BR	NDA	ID1	ID2	
	1.35081541E-05	2	22	22	# BR(Ah_5 -> VP VP)
	1.63882111E-07	2	21	21	# BR(Ah_5 -> VG VG)
	1.64712134E-10	2	25	36	# BR(Ah_5 -> hh_1 Ah_2)
	8.83444798E-23	2	35	36	# BR(Ah_5 -> hh_2 Ah_2)
	3.73178965E-14	2	1000012	36	# BR(Ah_5 -> hh_3 Ah_2)
	5.04143049E-13	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
	9.70487505E-26	2	-11	13	# BR(Ah_5 -> Cha_1^* Cha_2)
	1.06479953E-23	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
	4.01270549E-10	2	-11	-1000024	# BR(Ah_5 -> Cha_1^* Cha_4)
	9.70487505E-26	2	-13	11	# BR(Ah_5 -> Cha_2^* Cha_1)
	2.25211858E-08	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
	1.93376175E-23	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
	4.86721503E-10	2	-13	-1000024	# BR(Ah_5 -> Cha_2^* Cha_4)
	1.06479953E-23	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
	1.93376175E-23	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
	6.50853578E-06	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)
	1.13049552E-12	2	-15	-1000024	# BR(Ah_5 -> Cha_3^* Cha_4)
	4.01270549E-10	2	1000024	11	# BR(Ah_5 -> Cha_4^* Cha_1)
	4.86721503E-10	2	1000024	13	# BR(Ah_5 -> Cha_4^* Cha_2)
	1.13049552E-12	2	1000024	15	# BR(Ah_5 -> Cha_4^* Cha_3)
	5.05119545E-01	2	1000024	-1000024	# BR(Ah_5 -> Cha_4^* Cha_4)
	6.92069166E-27	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1)
	1.00668733E-25	2	12	14	# BR(Ah_5 -> Chi_1 Chi_2)
	1.02281624E-22	2	12	16	# BR(Ah_5 -> Chi_1 Chi_3)
	1.48726014E-10	2	12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
	1.12002903E-10	2	12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
	9.83312379E-13	2	12	1000025	# BR(Ah_5 -> Chi_1 Chi_6)
	8.00709685E-14	2	12	1000039	# BR(Ah_5 -> Chi_1 Chi_7)
	4.81022833E-14	2	12	1000045	# BR(Ah_5 -> Chi_1 Chi_8)
	5.11889300E-25	2	14	14	# BR(Ah_5 -> Chi_2 Chi_2)
	1.44389783E-22	2	14	16	# BR(Ah_5 -> Chi_2 Chi_3)
	6.55748300E-10	2	14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
	6.98183242E-10	2	14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
	2.47850660E-12	2	14	1000025	# BR(Ah_5 -> Chi_2 Chi_6)
	4.53170711E-12	2	14	1000039	# BR(Ah_5 -> Chi_2 Chi_7)
	7.45575324E-14	2	14	1000045	# BR(Ah_5 -> Chi_2 Chi_8)
	4.54151545E-22	2	16	16	# BR(Ah_5 -> Chi_3 Chi_3)
	1.10816735E-10	2	16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
	1.46222317E-10	2	16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
	7.35655314E-13	2	16	1000025	# BR(Ah_5 -> Chi_3 Chi_6)
	1.55273822E-12	2	16	1000039	# BR(Ah_5 -> Chi_3 Chi_7)
	4.97213910E-14	2	16	1000045	# BR(Ah_5 -> Chi_3 Chi_8)
	2.52617643E-01	2	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4)
	3.65932834E-06	2	1000022	1000023	# BR(Ah_5 -> Chi_4 Chi_5)
	2.42184794E-01	2	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5)
	4.21186918E-11	2	-1	1	# BR(Ah_5 -> Fd_1^* Fd_1)
	1.51497076E-08	2	-3	3	# BR(Ah_5 -> Fd_2^* Fd_2)
	4.06784157E-05	2	-5	5	# BR(Ah_5 -> Fd_3^* Fd_3)
	7.65030745E-16	2	-2	2	# BR(Ah_5 -> Fu_1^* Fu_1)
	1.81740927E-10	2	-4	4	# BR(Ah_5 -> Fu_2^* Fu_2)
	1.31479022E-05	2	-6	6	# BR(Ah_5 -> Fu_3^* Fu_3)
	1.05036641E-11	2	25	23	# BR(Ah_5 -> hh_1 VZ)
	1.56255245E-10	2	35	23	# BR(Ah_5 -> hh_2 VZ)
	8.03701585E-08	2	1000012	23	# BR(Ah_5 -> hh_3 VZ)
	9.72984843E-08	2	1000014	23	# BR(Ah_5 -> hh_4 VZ)
	1.31563560E-07	2	1000016	23	# BR(Ah_5 -> hh_5 VZ)
	1.50788389E-10	2	37	24	# BR(Ah_5 -> Hpm_2 VWm^*)
	1.50788389E-10	2	-37	-24	# BR(Ah_5 -> Hpm_2^* VWm)
DECAY	2000018	8.82402004E-01	# Ah_6		
#	BR	NDA	ID1	ID2	
	1.32211141E-05	2	22	22	# BR(Ah_6 -> VP VP)
	1.43585986E-07	2	21	21	# BR(Ah_6 -> VG VG)
	4.02113763E-13	2	25	36	# BR(Ah_6 -> hh_1 Ah_2)

2.11731405E-25	2		35	36	# BR(Ah_6 -> hh_2 Ah_2)
1.52556322E-16	2	1000012		36	# BR(Ah_6 -> hh_3 Ah_2)
9.89777914E-13	2	-11		11	# BR(Ah_6 -> Cha_1^* Cha_1)
9.61603938E-29	2	-11		13	# BR(Ah_6 -> Cha_1^* Cha_2)
1.87870668E-27	2	-11		15	# BR(Ah_6 -> Cha_1^* Cha_3)
4.24429539E-16	2	-11	-1000024		# BR(Ah_6 -> Cha_1^* Cha_4)
9.61603938E-29	2	-13		11	# BR(Ah_6 -> Cha_2^* Cha_1)
4.42155692E-08	2	-13		13	# BR(Ah_6 -> Cha_2^* Cha_2)
3.52154684E-27	2	-13		15	# BR(Ah_6 -> Cha_2^* Cha_3)
1.53474398E-14	2	-13	-1000024		# BR(Ah_6 -> Cha_2^* Cha_4)
1.87870668E-27	2	-15		11	# BR(Ah_6 -> Cha_3^* Cha_1)
3.52154684E-27	2	-15		13	# BR(Ah_6 -> Cha_3^* Cha_2)
1.27781298E-05	2	-15		15	# BR(Ah_6 -> Cha_3^* Cha_3)
5.66317376E-15	2	-15	-1000024		# BR(Ah_6 -> Cha_3^* Cha_4)
4.24429539E-16	2		1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1)
1.53474398E-14	2		1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2)
5.66317376E-15	2		1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3)
4.97829421E-01	2		1000024	-1000024	# BR(Ah_6 -> Cha_4^* Cha_4)
4.68170632E-30	2		12	12	# BR(Ah_6 -> Chi_1 Chi_1)
4.40642936E-30	2		12	14	# BR(Ah_6 -> Chi_1 Chi_2)
2.88442087E-28	2		12	16	# BR(Ah_6 -> Chi_1 Chi_3)
2.21076912E-18	2		12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
2.15465191E-19	2		12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
3.17750524E-16	2		12	1000025	# BR(Ah_6 -> Chi_1 Chi_6)
4.37673974E-17	2		12	1000039	# BR(Ah_6 -> Chi_1 Chi_7)
2.65735315E-16	2		12	1000045	# BR(Ah_6 -> Chi_1 Chi_8)
1.22334592E-28	2		14	14	# BR(Ah_6 -> Chi_2 Chi_2)
9.13556750E-26	2		14	16	# BR(Ah_6 -> Chi_2 Chi_3)
7.86097343E-15	2		14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)
2.28988122E-15	2		14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
1.09847186E-15	2		14	1000025	# BR(Ah_6 -> Chi_2 Chi_6)
1.83839543E-15	2		14	1000039	# BR(Ah_6 -> Chi_2 Chi_7)
8.90321097E-17	2		14	1000045	# BR(Ah_6 -> Chi_2 Chi_8)
1.25757152E-25	2		16	16	# BR(Ah_6 -> Chi_3 Chi_3)
1.27179912E-14	2		16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)
5.71987942E-15	2		16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
2.60483286E-16	2		16	1000025	# BR(Ah_6 -> Chi_3 Chi_6)
6.50236693E-16	2		16	1000039	# BR(Ah_6 -> Chi_3 Chi_7)
1.09073576E-16	2		16	1000045	# BR(Ah_6 -> Chi_3 Chi_8)
2.63418105E-01	2		1000022	1000022	# BR(Ah_6 -> Chi_4 Chi_4)
3.54809187E-07	2		1000022	1000023	# BR(Ah_6 -> Chi_4 Chi_5)
2.38619559E-01	2		1000023	1000023	# BR(Ah_6 -> Chi_5 Chi_5)
8.26911179E-11	2		-1	1	# BR(Ah_6 -> Fd_1^* Fd_1)
2.97432366E-08	2		-3	3	# BR(Ah_6 -> Fd_2^* Fd_2)
7.98634435E-05	2		-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
1.50436528E-15	2		-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)
3.57377443E-10	2		-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
2.58653122E-05	2		-6	6	# BR(Ah_6 -> Fu_3^* Fu_3)
6.31155434E-12	2		25	23	# BR(Ah_6 -> hh_1 VZ)
3.83756678E-13	2		35	23	# BR(Ah_6 -> hh_2 VZ)
1.59459625E-07	2		1000012	23	# BR(Ah_6 -> hh_3 VZ)
1.93240505E-07	2		1000014	23	# BR(Ah_6 -> hh_4 VZ)
2.61591980E-07	2		1000016	23	# BR(Ah_6 -> hh_5 VZ)
3.70889132E-13	2		37	24	# BR(Ah_6 -> Hpm_2 Vwm^*)
3.70889132E-13	2		-37	-24	# BR(Ah_6 -> Hpm_2^* Vwm)
DECAY	2000019	1.18615048E-01	#	Ah_7	
#	BR	NDA	ID1	ID2	
7.76713646E-16	2		22	22	# BR(Ah_7 -> VP VP)
3.72617997E-13	2		21	21	# BR(Ah_7 -> VG VG)
6.12137300E-25	2		25	36	# BR(Ah_7 -> hh_1 Ah_2)
3.91916673E-25	2		25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
2.23389758E-12	2		25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
3.13132294E-11	2		25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
1.83994909E-11	2		25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
1.55362781E-23	2		35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
1.46700889E-22	2		35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
7.28270441E-23	2		35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
2.59292871E-22	2		1000012	36	# BR(Ah_7 -> hh_3 Ah_2)
4.00844222E-23	2		1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3)
3.12988668E-24	2		1000014	36	# BR(Ah_7 -> hh_4 Ah_2)
5.65632450E-24	2		1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3)
7.30031645E-24	2		1000016	36	# BR(Ah_7 -> hh_5 Ah_2)
4.20119692E-20	2		-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)

6.47117842E-18	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
3.14819472E-15	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
1.33403894E-01	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
6.47117842E-18	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
2.95342099E-17	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
4.90161721E-24	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
3.14819472E-15	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
8.53533458E-15	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
1.25612135E-23	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
1.33403894E-01	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1)
4.90161721E-24	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2)
1.25612135E-23	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3)
1.35262627E-13	2	1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
3.06125431E-17	2	12	12	# BR(Ah_7 -> Chi_1 Chi_1)
2.63383912E-15	2	12	14	# BR(Ah_7 -> Chi_1 Chi_2)
1.18427063E-12	2	12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.12514410E-01	2	12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
3.11494528E-02	2	12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
8.93776785E-05	2	12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
9.95527623E-05	2	12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
1.16615964E-04	2	12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
3.88489250E-01	2	12	1000055	# BR(Ah_7 -> Chi_1 Chi_9)
1.82746651E-15	2	14	14	# BR(Ah_7 -> Chi_2 Chi_2)
3.94331171E-13	2	14	16	# BR(Ah_7 -> Chi_2 Chi_3)
3.58781393E-02	2	14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
9.93281136E-03	2	14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
2.85003922E-05	2	14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
3.17449817E-05	2	14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
3.71860262E-05	2	14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
1.23879879E-01	2	14	1000055	# BR(Ah_7 -> Chi_2 Chi_9)
1.37892967E-13	2	16	16	# BR(Ah_7 -> Chi_3 Chi_3)
6.53908276E-03	2	16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
1.81033568E-03	2	16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
5.19442834E-06	2	16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
5.78578117E-06	2	16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
6.77745580E-06	2	16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
2.25781157E-02	2	16	1000055	# BR(Ah_7 -> Chi_3 Chi_9)
1.52691131E-14	2	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4)
1.24878063E-13	2	1000022	1000023	# BR(Ah_7 -> Chi_4 Chi_5)
2.85902273E-12	2	1000022	1000025	# BR(Ah_7 -> Chi_4 Chi_6)
5.04481293E-13	2	1000022	1000039	# BR(Ah_7 -> Chi_4 Chi_7)
5.66730459E-13	2	1000022	1000045	# BR(Ah_7 -> Chi_4 Chi_8)
2.81992948E-14	2	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5)
2.76630583E-13	2	1000023	1000025	# BR(Ah_7 -> Chi_5 Chi_6)
3.78252041E-14	2	1000023	1000039	# BR(Ah_7 -> Chi_5 Chi_7)
6.04912591E-14	2	1000023	1000045	# BR(Ah_7 -> Chi_5 Chi_8)
5.52343130E-20	2	-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
1.98672771E-17	2	-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
5.33459331E-14	2	-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
8.58587144E-21	2	-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
2.03966271E-15	2	-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
1.55454569E-10	2	-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
3.70975456E-13	2	25	23	# BR(Ah_7 -> hh_1 VZ)
6.64140175E-24	2	35	23	# BR(Ah_7 -> hh_2 VZ)
5.42776244E-11	2	1000012	23	# BR(Ah_7 -> hh_3 VZ)
7.84367200E-13	2	1000014	23	# BR(Ah_7 -> hh_4 VZ)
3.75557525E-13	2	1000016	23	# BR(Ah_7 -> hh_5 VZ)
4.31083879E-24	2	2000012	23	# BR(Ah_7 -> hh_6 VZ)
5.99738344E-25	2	37	24	# BR(Ah_7 -> Hpm_2 VWm^*)
5.99738344E-25	2	-37	-24	# BR(Ah_7 -> Hpm_2^* VWm)
2.61646360E-25	2	1000011	24	# BR(Ah_7 -> Hpm_3 VWm^*)
2.61646360E-25	2	-1000011	-24	# BR(Ah_7 -> Hpm_3^* VWm)
DECAY	2000020	1.64668455E+01	# Ah_8	
#	BR	NDA	ID1	ID2
4.04327865E-07	2	22	22	# BR(Ah_8 -> VP VP)
9.94967985E-05	2	21	21	# BR(Ah_8 -> VG VG)
5.46501225E-16	2	25	36	# BR(Ah_8 -> hh_1 Ah_2)
2.11227241E-14	2	25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
2.90367919E-06	2	25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
3.15239514E-06	2	25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
1.68463529E-02	2	25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
4.09129299E-16	2	25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
7.40415784E-26	2	35	36	# BR(Ah_8 -> hh_2 Ah_2)

3.23935031E-25	2	35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
1.40325031E-18	2	35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
1.77597817E-17	2	35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
1.51275741E-13	2	35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
2.61701695E-28	2	35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
7.99028023E-14	2	1000012	36	# BR(Ah_8 -> hh_3 Ah_2)
3.45519622E-14	2	1000012	1000017	# BR(Ah_8 -> hh_3 Ah_3)
1.79376370E-06	2	1000012	1000018	# BR(Ah_8 -> hh_3 Ah_4)
3.76022146E-05	2	1000012	1000019	# BR(Ah_8 -> hh_3 Ah_5)
2.80748721E-06	2	1000012	2000018	# BR(Ah_8 -> hh_3 Ah_6)
5.64188176E-15	2	1000012	2000019	# BR(Ah_8 -> hh_3 Ah_7)
1.09717808E-13	2	1000014	36	# BR(Ah_8 -> hh_4 Ah_2)
4.59580515E-14	2	1000014	1000017	# BR(Ah_8 -> hh_4 Ah_3)
2.55128639E-05	2	1000014	1000018	# BR(Ah_8 -> hh_4 Ah_4)
1.17187515E-05	2	1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5)
4.78278902E-06	2	1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6)
5.72464512E-15	2	1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7)
1.77866738E-13	2	1000016	36	# BR(Ah_8 -> hh_5 Ah_2)
7.38593309E-14	2	1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3)
2.76628689E-05	2	1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4)
3.02358381E-06	2	1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5)
8.73639027E-06	2	1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6)
8.74149047E-15	2	1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7)
7.12985235E-26	2	2000012	36	# BR(Ah_8 -> hh_6 Ah_2)
2.29764037E-28	2	2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3)
5.18119649E-17	2	2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4)
7.03458198E-18	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5)
3.54848390E-14	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6)
9.31816279E-27	2	2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7)
3.23510374E-27	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2)
5.89061959E-28	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3)
3.09786780E-17	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4)
3.59315731E-16	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
2.02871823E-15	2	2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6)
2.88613522E-28	2	2000014	2000019	# BR(Ah_8 -> hh_7 Ah_7)
2.37564806E-09	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
3.63256034E-27	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
1.97605430E-24	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
8.08386034E-16	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
2.99073004E-14	2	-11	-1000037	# BR(Ah_8 -> Cha_1^* Cha_5)
3.63256034E-27	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
1.06125459E-04	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
8.07527570E-24	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
3.50099008E-15	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
1.19045920E-13	2	-13	-1000037	# BR(Ah_8 -> Cha_2^* Cha_5)
1.97605430E-24	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
8.07527570E-24	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
3.06702243E-02	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
2.15587575E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
3.85301328E-15	2	-15	-1000037	# BR(Ah_8 -> Cha_3^* Cha_5)
8.08386034E-16	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
3.50099008E-15	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
2.15587575E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
5.91033367E-03	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
1.12066448E-01	2	1000024	-1000037	# BR(Ah_8 -> Cha_4^* Cha_5)
2.99073004E-14	2	1000037	11	# BR(Ah_8 -> Cha_5^* Cha_1)
1.19045920E-13	2	1000037	13	# BR(Ah_8 -> Cha_5^* Cha_2)
3.85301328E-15	2	1000037	15	# BR(Ah_8 -> Cha_5^* Cha_3)
1.12066448E-01	2	1000037	-1000024	# BR(Ah_8 -> Cha_5^* Cha_4)
3.37107248E-30	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
2.69649458E-29	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
1.00456797E-26	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
1.07937367E-15	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
3.23322356E-16	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
1.55638689E-16	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
1.89747883E-17	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
2.95506255E-16	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
4.88143730E-14	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
4.55700830E-14	2	12	1000065	# BR(Ah_8 -> Chi_1 Chi_10)
1.11431611E-28	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
3.00856318E-27	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
2.48236321E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
2.80191818E-16	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)

7.28318414E-16	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
1.23205058E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
1.20782370E-16	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
2.12879703E-14	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
1.98399770E-14	2	14	1000065	# BR(Ah_8 -> Chi_2 Chi_10)
3.97825019E-26	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
3.04535154E-14	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
5.85526322E-15	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
4.71308245E-16	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
1.38684040E-16	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
4.53909174E-16	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
9.43670997E-14	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
8.96605923E-14	2	16	1000065	# BR(Ah_8 -> Chi_3 Chi_10)
8.90262125E-03	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
4.35853530E-05	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
1.41601258E-02	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
1.80207198E-02	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
2.40851847E-02	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
8.10385240E-02	2	1000022	1000055	# BR(Ah_8 -> Chi_4 Chi_9)
8.71107319E-02	2	1000022	1000065	# BR(Ah_8 -> Chi_4 Chi_10)
1.96459100E-03	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
2.04543521E-02	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
2.58679180E-02	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
3.43648324E-02	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
4.47899501E-02	2	1000023	1000055	# BR(Ah_8 -> Chi_5 Chi_9)
2.34924336E-02	2	1000023	1000065	# BR(Ah_8 -> Chi_5 Chi_10)
4.88630205E-07	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)
3.98928643E-05	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)
5.00912271E-05	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
7.33220042E-04	2	1000025	1000055	# BR(Ah_8 -> Chi_6 Chi_9)
2.80202877E-04	2	1000025	1000065	# BR(Ah_8 -> Chi_6 Chi_10)
1.95505595E-09	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
5.94129252E-05	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)
8.91241734E-04	2	1000039	1000055	# BR(Ah_8 -> Chi_7 Chi_9)
2.98041096E-04	2	1000039	1000065	# BR(Ah_8 -> Chi_7 Chi_10)
1.53318783E-06	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
1.14033775E-03	2	1000045	1000055	# BR(Ah_8 -> Chi_8 Chi_9)
3.16608450E-04	2	1000045	1000065	# BR(Ah_8 -> Chi_8 Chi_10)
1.74642679E-04	2	1000055	1000055	# BR(Ah_8 -> Chi_9 Chi_9)
1.98473910E-07	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
7.13892082E-05	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
1.91688883E-01	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
3.62023438E-12	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
8.60024284E-07	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
6.74712341E-02	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
6.65519436E-06	2	25	23	# BR(Ah_8 -> hh_1 VZ)
9.43423488E-15	2	35	23	# BR(Ah_8 -> hh_2 VZ)
1.49922122E-02	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
2.06480762E-02	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
3.21207739E-02	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
1.57735058E-14	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
8.04744158E-16	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
2.37385607E-29	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3)
6.74864860E-30	2	-37	1000013	# BR(Ah_8 -> Hpm_2^* Hpm_5)
3.70618617E-04	2	-37	2000013	# BR(Ah_8 -> Hpm_2^* Hpm_6)
7.93133083E-29	2	-37	1000015	# BR(Ah_8 -> Hpm_2^* Hpm_7)
2.37385607E-29	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2)
6.32191670E-30	2	-1000011	2000011	# BR(Ah_8 -> Hpm_3^* Hpm_4)
5.48232887E-09	2	-1000011	1000013	# BR(Ah_8 -> Hpm_3^* Hpm_5)
3.78853068E-28	2	-1000011	2000013	# BR(Ah_8 -> Hpm_3^* Hpm_6)
2.26746085E-30	2	-1000011	1000015	# BR(Ah_8 -> Hpm_3^* Hpm_7)
6.32191670E-30	2	-2000011	1000011	# BR(Ah_8 -> Hpm_4^* Hpm_3)
8.93662518E-14	2	-2000011	1000015	# BR(Ah_8 -> Hpm_4^* Hpm_7)
6.74864860E-30	2	-1000013	37	# BR(Ah_8 -> Hpm_5^* Hpm_2)
5.48232887E-09	2	-1000013	1000011	# BR(Ah_8 -> Hpm_5^* Hpm_3)
3.70618617E-04	2	-2000013	37	# BR(Ah_8 -> Hpm_6^* Hpm_2)
3.78853068E-28	2	-2000013	1000011	# BR(Ah_8 -> Hpm_6^* Hpm_3)
1.73064945E-30	2	-2000013	1000015	# BR(Ah_8 -> Hpm_6^* Hpm_7)
7.93133083E-29	2	-1000015	37	# BR(Ah_8 -> Hpm_7^* Hpm_2)
2.26746085E-30	2	-1000015	1000011	# BR(Ah_8 -> Hpm_7^* Hpm_3)
8.93662518E-14	2	-1000015	2000011	# BR(Ah_8 -> Hpm_7^* Hpm_4)
1.73064945E-30	2	-1000015	2000013	# BR(Ah_8 -> Hpm_7^* Hpm_6)
3.85446677E-17	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)

3.85446677E-17	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)	
4.39172729E-17	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)	
4.39172729E-17	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)	
2.40959785E-24	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)	
2.40959785E-24	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)	
6.94822792E-19	2	1000013	24	# BR(Ah_8 -> Hpm_5 Vwm^*)	
6.94822792E-19	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* Vwm)	
2.03517565E-15	2	2000013	24	# BR(Ah_8 -> Hpm_6 Vwm^*)	
2.03517565E-15	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* Vwm)	
1.90381497E-17	2	1000015	24	# BR(Ah_8 -> Hpm_7 Vwm^*)	
1.90381497E-17	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* Vwm)	
3.01942879E-03	2	-1000001	2000005	# BR(Ah_8 -> Sd_1^* Sd_6)	
2.48562790E-09	2	-1000003	2000003	# BR(Ah_8 -> Sd_2^* Sd_5)	
6.91045647E-12	2	-1000005	2000001	# BR(Ah_8 -> Sd_3^* Sd_4)	
6.91045647E-12	2	-2000001	1000005	# BR(Ah_8 -> Sd_4^* Sd_3)	
2.48562790E-09	2	-2000003	1000003	# BR(Ah_8 -> Sd_5^* Sd_2)	
3.01942879E-03	2	-2000005	1000001	# BR(Ah_8 -> Sd_6^* Sd_1)	
6.48236789E-17	2	-1000002	1000004	# BR(Ah_8 -> Su_1^* Su_2)	
1.26432964E-12	2	-1000002	1000006	# BR(Ah_8 -> Su_1^* Su_3)	
2.05941788E-09	2	-1000002	2000002	# BR(Ah_8 -> Su_1^* Su_4)	
2.46375290E-12	2	-1000002	2000004	# BR(Ah_8 -> Su_1^* Su_5)	
1.76295431E-13	2	-1000002	2000006	# BR(Ah_8 -> Su_1^* Su_6)	
6.48236789E-17	2	-1000004	1000002	# BR(Ah_8 -> Su_2^* Su_1)	
8.55328092E-15	2	-1000004	1000006	# BR(Ah_8 -> Su_2^* Su_3)	
2.99936046E-07	2	-1000004	2000002	# BR(Ah_8 -> Su_2^* Su_4)	
1.97220602E-05	2	-1000004	2000004	# BR(Ah_8 -> Su_2^* Su_5)	
1.36951473E-06	2	-1000004	2000006	# BR(Ah_8 -> Su_2^* Su_6)	
1.26432964E-12	2	-1000006	1000002	# BR(Ah_8 -> Su_3^* Su_1)	
8.55328092E-15	2	-1000006	1000004	# BR(Ah_8 -> Su_3^* Su_2)	
4.30972049E-29	2	-1000006	2000002	# BR(Ah_8 -> Su_3^* Su_4)	
2.64223746E-17	2	-1000006	2000004	# BR(Ah_8 -> Su_3^* Su_5)	
4.49622507E-18	2	-1000006	2000006	# BR(Ah_8 -> Su_3^* Su_6)	
2.05941788E-09	2	-2000002	1000002	# BR(Ah_8 -> Su_4^* Su_1)	
2.99936046E-07	2	-2000002	1000004	# BR(Ah_8 -> Su_4^* Su_2)	
4.30972049E-29	2	-2000002	1000006	# BR(Ah_8 -> Su_4^* Su_3)	
9.18317839E-10	2	-2000002	2000004	# BR(Ah_8 -> Su_4^* Su_5)	
1.56265768E-10	2	-2000002	2000006	# BR(Ah_8 -> Su_4^* Su_6)	
2.46375290E-12	2	-2000004	1000002	# BR(Ah_8 -> Su_5^* Su_1)	
1.97220602E-05	2	-2000004	1000004	# BR(Ah_8 -> Su_5^* Su_2)	
2.64223746E-17	2	-2000004	1000006	# BR(Ah_8 -> Su_5^* Su_3)	
9.18317839E-10	2	-2000004	2000002	# BR(Ah_8 -> Su_5^* Su_4)	
1.76295431E-13	2	-2000006	1000002	# BR(Ah_8 -> Su_6^* Su_1)	
1.36951473E-06	2	-2000006	1000004	# BR(Ah_8 -> Su_6^* Su_2)	
4.49622507E-18	2	-2000006	1000006	# BR(Ah_8 -> Su_6^* Su_3)	
1.56265768E-10	2	-2000006	2000002	# BR(Ah_8 -> Su_6^* Su_4)	
DECAY	37	8.97590258E-04	# Hpm_2		
#	BR	NDA	ID1	ID2	
1.08976095E-12	2		12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
7.48528352E-12	2		12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
3.13498997E-11	2		12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
2.06113335E-03	2		12	-1000024	# BR(Hpm_2 -> Chi_1 Cha_4)
1.23816967E-12	2		14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
8.51069931E-12	2		14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
2.01224734E-11	2		14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
2.34182841E-03	2		14	-1000024	# BR(Hpm_2 -> Chi_2 Cha_4)
2.97148451E-12	2		16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
2.04131426E-11	2		16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
9.13132874E-11	2		16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
5.62015639E-03	2		16	-1000024	# BR(Hpm_2 -> Chi_3 Cha_4)
6.27674000E-25	2	1000022	11		# BR(Hpm_2 -> Chi_4 Cha_1)
3.62199683E-24	2	1000022	13		# BR(Hpm_2 -> Chi_4 Cha_2)
7.65899648E-01	2	1000022	15		# BR(Hpm_2 -> Chi_4 Cha_3)
8.30996032E-26	2	1000023	11		# BR(Hpm_2 -> Chi_5 Cha_1)
5.70143382E-25	2	1000023	13		# BR(Hpm_2 -> Chi_5 Cha_2)
2.24077195E-01	2	1000023	15		# BR(Hpm_2 -> Chi_5 Cha_3)
2.51302623E-17	2	-2	1		# BR(Hpm_2 -> Fu_1^* Fd_1)
4.08385267E-16	2	-2	3		# BR(Hpm_2 -> Fu_1^* Fd_2)
2.53078433E-16	2	-2	5		# BR(Hpm_2 -> Fu_1^* Fd_3)
4.97830413E-14	2	-4	1		# BR(Hpm_2 -> Fu_2^* Fd_1)
9.36932839E-13	2	-4	3		# BR(Hpm_2 -> Fu_2^* Fd_2)
3.82567849E-14	2	-4	5		# BR(Hpm_2 -> Fu_2^* Fd_3)
1.25483377E-12	2	-6	1		# BR(Hpm_2 -> Fu_3^* Fd_1)
5.93439156E-11	2	-6	3		# BR(Hpm_2 -> Fu_3^* Fd_2)

	3.54288423E-08	2	-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)
	2.54517390E-09	2	25	-24	# BR(Hpm_2 -> hh_1 Vwm)
	3.16108603E-13	2	-24	23	# BR(Hpm_2 -> Vwm VZ)
DECAY	1000011	1.61945000E-03	#	Hpm_3	
#	BR	NDA	ID1	ID2	
	3.24967057E-11	2	37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)
	2.74218391E-22	2	36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
	3.95265899E-13	2	12	11	# BR(Hpm_3 -> Chi_1 Cha_1)
	2.85686976E-12	2	12	13	# BR(Hpm_3 -> Chi_1 Cha_2)
	5.07925346E-12	2	12	15	# BR(Hpm_3 -> Chi_1 Cha_3)
	3.64486015E-02	2	12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)
	3.10205955E-12	2	14	11	# BR(Hpm_3 -> Chi_2 Cha_1)
	2.25034618E-11	2	14	13	# BR(Hpm_3 -> Chi_2 Cha_2)
	3.69020576E-11	2	14	15	# BR(Hpm_3 -> Chi_2 Cha_3)
	2.86049887E-01	2	14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)
	2.30326645E-12	2	16	11	# BR(Hpm_3 -> Chi_3 Cha_1)
	3.08499811E-12	2	16	13	# BR(Hpm_3 -> Chi_3 Cha_2)
	2.82301301E-11	2	16	15	# BR(Hpm_3 -> Chi_3 Cha_3)
	2.12390865E-01	2	16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)
	1.65845943E-23	2	1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1)
	2.33664861E-01	2	1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2)
	3.80992314E-23	2	1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3)
	1.24758964E-12	2	1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4)
	9.86908302E-25	2	1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1)
	2.31358833E-01	2	1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2)
	2.15941989E-22	2	1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3)
	1.33525631E-12	2	1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4)
	1.23842003E-23	2	1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1)
	3.69900683E-05	2	1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2)
	4.57590563E-25	2	1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3)
	9.29555668E-25	2	1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1)
	2.89797091E-05	2	1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2)
	9.35848078E-25	2	1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3)
	1.02786936E-24	2	1000045	11	# BR(Hpm_3 -> Chi_8 Cha_1)
	2.09407631E-05	2	1000045	13	# BR(Hpm_3 -> Chi_8 Cha_2)
	9.59077565E-26	2	1000045	15	# BR(Hpm_3 -> Chi_8 Cha_3)
	1.42732995E-17	2	-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1)
	2.29731813E-16	2	-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2)
	1.42402324E-16	2	-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3)
	2.97456426E-14	2	-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1)
	5.59556836E-13	2	-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2)
	2.15843334E-14	2	-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3)
	1.38287382E-12	2	-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1)
	6.53992236E-11	2	-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2)
	3.90465477E-08	2	-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3)
	6.88442985E-21	2	37	25	# BR(Hpm_3 -> Hpm_2 hh_1)
	3.24967057E-11	2	37	35	# BR(Hpm_3 -> Hpm_2 hh_2)
	4.21844543E-10	2	25	-24	# BR(Hpm_3 -> hh_1 Vwm)
	4.58881911E-21	2	35	-24	# BR(Hpm_3 -> hh_2 Vwm)
	2.17890116E-11	2	1000012	-24	# BR(Hpm_3 -> hh_3 Vwm)
	3.20279477E-09	2	1000014	-24	# BR(Hpm_3 -> hh_4 Vwm)
	9.03798257E-11	2	1000016	-24	# BR(Hpm_3 -> hh_5 Vwm)
	4.25166709E-28	2	37	23	# BR(Hpm_3 -> Hpm_2 VZ)
	1.92319823E-12	2	-24	23	# BR(Hpm_3 -> Vwm VZ)
DECAY	2000011	2.34112797E-01	#	Hpm_4	
#	BR	NDA	ID1	ID2	
	5.47447926E-22	2	37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
	8.27319260E-26	2	1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm)
	7.63186539E-21	2	1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm)
	1.06910575E-19	2	1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm)
	6.24407984E-20	2	2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm)
	8.01617361E-18	2	12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
	7.62876432E-20	2	12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
	1.10758259E-20	2	12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
	4.64313152E-08	2	12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
	1.06566272E-15	2	14	11	# BR(Hpm_4 -> Chi_2 Cha_1)
	2.43263466E-20	2	14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
	3.53673092E-21	2	14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
	1.48058294E-08	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
	4.34584601E-13	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
	4.43370488E-21	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2)
	6.59754717E-22	2	16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
	2.69848303E-09	2	16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)

5.30982755E-02	2	1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1)
6.26777680E-23	2	1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2)
1.39331190E-22	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)
9.51484988E-03	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1)
1.24859633E-23	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2)
1.89816247E-22	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)
3.50155853E-05	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1)
4.41018759E-26	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2)
1.21521669E-20	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)
3.82530336E-05	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1)
4.84166688E-26	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2)
2.18096792E-21	2	1000039	-1000024	# BR(Hpm_4 -> Chi_7 Cha_4)
4.38668330E-05	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1)
5.57777252E-26	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2)
2.52251161E-21	2	1000045	-1000024	# BR(Hpm_4 -> Chi_8 Cha_4)
9.37269675E-01	2	1000055	11	# BR(Hpm_4 -> Chi_9 Cha_1)
1.07930687E-21	2	1000055	13	# BR(Hpm_4 -> Chi_9 Cha_2)
2.70539069E-30	2	1000055	15	# BR(Hpm_4 -> Chi_9 Cha_3)
1.90642239E-28	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)
3.13319272E-27	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)
1.94240078E-27	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)
3.54428316E-25	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)
6.67465471E-24	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)
2.92700854E-25	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)
1.83291889E-23	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)
8.66828719E-22	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)
5.17553307E-19	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)
5.47447926E-22	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2)
8.52964928E-26	2	1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1)
1.31156772E-28	2	1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3)
9.85323641E-22	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm)
1.98533712E-19	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm)
2.86586790E-21	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm)
1.37142197E-21	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm)
8.27943148E-26	2	2000012	-24	# BR(Hpm_4 -> hh_6 Vwm)
7.85557455E-26	2	1000011	23	# BR(Hpm_4 -> Hpm_3 VZ)
7.35582308E-23	2	-24	23	# BR(Hpm_4 -> Vwm VZ)
DECAFY 1000013	2.35533071E-01	# Hpm_5		
#	BR	NDA	ID1	ID2
1.01436816E-19	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
2.74686078E-16	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
6.28340035E-29	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
8.16886865E-29	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
8.63808901E-29	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)
2.69135835E-16	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2)
2.46830960E-30	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm)
7.11468291E-05	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm)
4.20677628E-17	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm)
4.68366203E-17	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm)
4.00129444E-17	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm)
5.18719509E-17	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1)
3.98396044E-16	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
6.25849756E-18	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
1.81191109E-04	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
4.07092867E-16	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
1.37376064E-15	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
4.90918843E-17	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
1.42199409E-03	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
3.02264781E-16	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
4.32116340E-13	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2)
3.64575425E-17	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
1.05582477E-03	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
6.08773852E-23	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1)
5.41007310E-02	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2)
8.59600959E-25	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3)
2.46047786E-18	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4)
1.09869040E-23	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1)
1.07752537E-02	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2)
7.45882827E-25	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3)
5.59608193E-19	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4)
4.02784660E-26	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1)
3.80685063E-05	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2)
1.90068655E-27	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3)

9.41934337E-19	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4)	
4.41257510E-26	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1)	
4.17781003E-05	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2)	
2.10898324E-27	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3)	
1.25985581E-17	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4)	
5.05399777E-26	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1)	
4.81465063E-05	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2)	
2.64395047E-27	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3)	
1.40982130E-19	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4)	
1.07330209E-21	2	1000055	11	# BR(Hpm_5 -> Chi_9 Cha_1)	
9.32053673E-01	2	1000055	13	# BR(Hpm_5 -> Chi_9 Cha_2)	
2.28033681E-24	2	1000055	15	# BR(Hpm_5 -> Chi_9 Cha_3)	
1.06184896E-25	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)	
1.94109151E-24	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)	
1.20376261E-24	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)	
6.76955335E-23	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)	
1.29983687E-21	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)	
1.76317397E-22	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)	
3.50068029E-21	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)	
1.65555118E-19	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)	
9.89179968E-17	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)	
1.27214063E-28	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1)	
1.01436816E-19	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2)	
8.46004517E-30	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)	
3.20105486E-28	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4)	
7.38572731E-30	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5)	
2.74686078E-16	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6)	
7.33781609E-05	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1)	
4.59965009E-16	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2)	
1.18908449E-07	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3)	
2.87984001E-18	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm)	
1.11707394E-28	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm)	
4.79466254E-19	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm)	
7.87447694E-17	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm)	
2.60953256E-18	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm)	
7.11468291E-05	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm)	
6.26095385E-29	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ)	
6.75487201E-05	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ)	
1.41891631E-20	2	-24	23	# BR(Hpm_5 -> Vwm VZ)	
DECAY #	2000013	6.17721240E-01	# Hpm_6		
#	BR	NDA	ID1	ID2	
2.94787679E-19	2		37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)
9.65785841E-15	2		37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
1.39061666E-08	2		37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
1.44774031E-08	2		37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
3.39081885E-05	2		37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
1.23563128E-14	2	1000011		36	# BR(Hpm_6 -> Hpm_3 Ah_2)
8.82734699E-03	2		36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
1.46722285E-25	2	1000017		-24	# BR(Hpm_6 -> Ah_3 Vwm)
2.10927668E-17	2	1000018		-24	# BR(Hpm_6 -> Ah_4 Vwm)
1.52892499E-18	2	1000019		-24	# BR(Hpm_6 -> Ah_5 Vwm)
1.16062995E-17	2	2000018		-24	# BR(Hpm_6 -> Ah_6 Vwm)
1.73066805E-14	2		12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
7.06053657E-14	2		12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
1.65143951E-13	2		12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
6.02904511E-02	2		12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
1.96635876E-14	2		14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
8.02207567E-14	2		14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
8.51416193E-14	2		14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
6.85010951E-02	2		14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
4.71906638E-14	2		16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
1.92521852E-13	2		16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
3.47189108E-13	2		16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
1.64395848E-01	2		16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
1.91974168E-23	2	1000022		11	# BR(Hpm_6 -> Chi_4 Cha_1)
7.86349288E-23	2	1000022		13	# BR(Hpm_6 -> Chi_4 Cha_2)
1.66053342E-01	2	1000022		15	# BR(Hpm_6 -> Chi_4 Cha_3)
3.84603433E-16	2	1000022		-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
1.86915503E-23	2	1000023		11	# BR(Hpm_6 -> Chi_5 Cha_1)
7.74571813E-23	2	1000023		13	# BR(Hpm_6 -> Chi_5 Cha_2)
1.48567491E-01	2	1000023		15	# BR(Hpm_6 -> Chi_5 Cha_3)
1.22303623E-16	2	1000023		-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
4.41833422E-26	2	1000025		11	# BR(Hpm_6 -> Chi_6 Cha_1)

1.96563426E-25	2	1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)	
3.73219909E-04	2	1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)	
1.19910206E-17	2	1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)	
5.44829975E-26	2	1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)	
2.09846261E-25	2	1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)	
4.28660825E-04	2	1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)	
1.30539840E-17	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)	
6.77226660E-26	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)	
2.76890240E-25	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)	
5.17729604E-04	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)	
8.68977992E-17	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)	
1.98050547E-26	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1)	
8.68730707E-25	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)	
3.55368935E-01	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)	
4.33666449E-23	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)	
8.27205362E-22	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)	
5.13051835E-22	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)	
4.84181594E-21	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)	
1.05777415E-19	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)	
7.43452603E-20	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)	
2.50281700E-19	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)	
1.18364117E-17	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)	
7.10731963E-15	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)	
9.00754104E-03	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1)	
3.34020356E-15	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2)	
5.42621658E-05	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)	
6.92257456E-05	2	37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4)	
1.00132082E-04	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5)	
1.44438882E-14	2	37	2000012	# BR(Hpm_6 -> Hpm_2 hh_6)	
2.61063069E-25	2	1000011	25	# BR(Hpm_6 -> Hpm_3 hh_1)	
1.23563128E-14	2	1000011	35	# BR(Hpm_6 -> Hpm_3 hh_2)	
1.17904002E-28	2	1000011	1000012	# BR(Hpm_6 -> Hpm_3 hh_3)	
6.46305934E-15	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm)	
8.82734699E-03	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm)	
2.54206095E-17	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm)	
1.24087534E-18	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm)	
2.41113572E-15	2	1000016	-24	# BR(Hpm_6 -> hh_5 Vwm)	
1.72929171E-25	2	2000012	-24	# BR(Hpm_6 -> hh_6 Vwm)	
8.58343608E-03	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)	
1.44054671E-25	2	1000011	23	# BR(Hpm_6 -> Hpm_3 VZ)	
1.05081505E-18	2	-24	23	# BR(Hpm_6 -> Vwm VZ)	
DECAY	1000015	7.21672789E-02	# Hpm_7		
#	BR	NDA	ID1	ID2	
2.35277419E-13	2		37	36	# BR(Hpm_7 -> Hpm_2 Ah_2)
1.43492457E-23	2		37	1000018	# BR(Hpm_7 -> Hpm_2 Ah_4)
1.22904929E-22	2		37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
5.75271774E-23	2		37	2000018	# BR(Hpm_7 -> Hpm_2 Ah_6)
1.24573790E-24	2		36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
1.16983266E-25	2		1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
3.73230356E-12	2		1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
5.22864118E-11	2		1000019	-24	# BR(Hpm_7 -> Ah_5 Vwm)
3.05528808E-11	2		2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
1.58034482E-13	2		12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
1.08544479E-12	2		12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
1.85032955E-12	2		12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
2.02613440E-02	2		12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
4.10462737E-14	2		14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
3.46146325E-13	2		14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
5.92305763E-13	2		14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
6.46085531E-03	2		14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
1.22469931E-13	2		16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
6.31020485E-14	2		16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
1.14981996E-13	2		16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
1.17754344E-03	2		16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
7.53738655E-03	2		1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
6.36915318E-26	2		1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
7.39212529E-25	2		1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3)
4.20457825E-14	2		1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
7.87511402E-03	2		1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
1.38591978E-24	2		1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
1.25055768E-24	2		1000023	15	# BR(Hpm_7 -> Chi_5 Cha_3)
9.29103517E-14	2		1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
1.17171301E-05	2		1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)

1.24722500E-24	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
1.51988839E-25	2	1000025	15	# BR(Hpm_7 -> Chi_6 Cha_3)
6.01833622E-12	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
1.38203488E-05	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
3.47470408E-24	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
7.14530378E-26	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3)
9.16039829E-13	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
1.71994934E-05	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
7.93649382E-25	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
9.61713121E-27	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3)
1.04617584E-12	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
9.56645019E-01	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
6.47951218E-23	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
1.22963442E-22	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3)
8.77222797E-20	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1)
1.45308891E-18	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
9.00856137E-19	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
1.55554240E-16	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
2.93087486E-15	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
1.35455357E-16	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
8.05787588E-15	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
3.81075142E-13	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
2.27530840E-10	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
1.48401079E-23	2	37	25	# BR(Hpm_7 -> Hpm_2 hh_1)
2.35277419E-13	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2)
4.30994721E-22	2	37	1000012	# BR(Hpm_7 -> Hpm_2 hh_3)
5.41241643E-24	2	37	1000014	# BR(Hpm_7 -> Hpm_2 hh_4)
1.05553287E-23	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5)
3.93254074E-24	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
6.35960764E-23	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)
8.78965048E-24	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)
4.45209525E-13	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)
4.49290168E-24	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)
9.09951745E-11	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)
1.31369288E-12	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)
6.28910310E-13	2	1000016	-24	# BR(Hpm_7 -> hh_5 Vwm)
4.08090387E-24	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)
1.42679222E-26	2	37	23	# BR(Hpm_7 -> Hpm_2 VZ)
4.70463905E-29	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)
3.32782649E-14	2	-24	23	# BR(Hpm_7 -> Vwm VZ)
DECAY 2000015	1.59012281E+01	# Hpm_8		
# BR	NDA	ID1	ID2	
1.24655463E-05	2	37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
9.85441644E-26	2	37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
8.38817928E-18	2	37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
4.99220087E-18	2	37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
8.53025530E-14	2	37	2000018	# BR(Hpm_8 -> Hpm_2 Ah_6)
2.62343315E-27	2	37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7)
2.92327382E-28	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2)
1.22972665E-05	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3)
1.00541133E-18	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4)
1.31198996E-17	2	1000011	1000019	# BR(Hpm_8 -> Hpm_3 Ah_5)
3.36480337E-14	2	1000011	2000018	# BR(Hpm_8 -> Hpm_3 Ah_6)
9.36362342E-28	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7)
6.67906120E-30	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3)
1.43535236E-25	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4)
1.57479685E-24	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5)
1.76784521E-23	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6)
3.92728586E-15	2	2000011	2000019	# BR(Hpm_8 -> Hpm_4 Ah_7)
7.03102522E-30	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2)
5.76656945E-09	2	1000013	1000017	# BR(Hpm_8 -> Hpm_5 Ah_3)
6.76900877E-22	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4)
6.98415560E-22	2	1000013	1000019	# BR(Hpm_8 -> Hpm_5 Ah_5)
7.95829059E-22	2	1000013	2000018	# BR(Hpm_8 -> Hpm_5 Ah_6)
3.84721889E-04	2	2000013	36	# BR(Hpm_8 -> Hpm_6 Ah_2)
2.82673259E-28	2	2000013	1000017	# BR(Hpm_8 -> Hpm_6 Ah_3)
3.13710278E-18	2	2000013	1000018	# BR(Hpm_8 -> Hpm_6 Ah_4)
2.32601215E-19	2	2000013	1000019	# BR(Hpm_8 -> Hpm_6 Ah_5)
4.03084792E-18	2	2000013	2000018	# BR(Hpm_8 -> Hpm_6 Ah_6)
8.41362108E-30	2	1000015	36	# BR(Hpm_8 -> Hpm_7 Ah_2)
4.01920395E-27	2	1000015	1000017	# BR(Hpm_8 -> Hpm_7 Ah_3)
3.18815188E-17	2	1000015	1000018	# BR(Hpm_8 -> Hpm_7 Ah_4)
3.71724664E-16	2	1000015	1000019	# BR(Hpm_8 -> Hpm_7 Ah_5)

1.95626661E-15	2	1000015	2000018	# BR(Hpm_8 -> Hpm_7 Ah_6)
7.42962759E-06	2	1000015	2000019	# BR(Hpm_8 -> Hpm_7 Ah_7)
3.32768547E-16	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm)
1.99147029E-14	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm)
2.94769105E-06	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm)
3.19948425E-06	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm)
1.67737776E-02	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm)
3.11825909E-16	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm)
1.78523168E-09	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1)
7.48308932E-06	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2)
6.52626377E-03	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3)
2.67034141E-16	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4)
9.39176457E-14	2	12	-1000037	# BR(Hpm_8 -> Chi_1 Cha_5)
5.69267447E-10	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1)
5.87275441E-05	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2)
7.41504180E-03	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3)
2.40584773E-16	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4)
4.08147741E-14	2	14	-1000037	# BR(Hpm_8 -> Chi_2 Cha_5)
1.03753624E-10	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1)
4.36049601E-05	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2)
1.77953664E-02	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3)
1.17753494E-15	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4)
1.86510515E-13	2	16	-1000037	# BR(Hpm_8 -> Chi_3 Cha_5)
8.06689338E-16	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1)
6.04539233E-15	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2)
1.34134234E-14	2	1000022	15	# BR(Hpm_8 -> Chi_4 Cha_3)
1.62423435E-03	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
1.15454185E-01	2	1000022	-1000037	# BR(Hpm_8 -> Chi_4 Cha_5)
1.43794320E-15	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
9.36179976E-15	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
1.37898380E-14	2	1000023	15	# BR(Hpm_8 -> Chi_5 Cha_3)
5.31973197E-04	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
1.14685972E-01	2	1000023	-1000037	# BR(Hpm_8 -> Chi_5 Cha_5)
4.21430095E-16	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
9.06290989E-16	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
9.08213103E-16	2	1000025	15	# BR(Hpm_8 -> Chi_6 Cha_3)
3.70323156E-02	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
2.86406075E-04	2	1000025	-1000037	# BR(Hpm_8 -> Chi_6 Cha_5)
1.05034210E-16	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
1.31703474E-15	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
1.16343078E-15	2	1000039	15	# BR(Hpm_8 -> Chi_7 Cha_3)
4.69096815E-02	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
3.01124473E-04	2	1000039	-1000037	# BR(Hpm_8 -> Chi_7 Cha_5)
1.75298778E-16	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
6.59759094E-16	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
1.18510357E-15	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)
6.24182325E-02	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
3.13985066E-04	2	1000045	-1000037	# BR(Hpm_8 -> Chi_8 Cha_5)
3.43069434E-14	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
1.36112016E-13	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
4.45054199E-15	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
1.38243250E-01	2	1000055	-1000024	# BR(Hpm_8 -> Chi_9 Cha_4)
3.09720905E-14	2	1000065	11	# BR(Hpm_8 -> Chi_10 Cha_1)
1.23371220E-13	2	1000065	13	# BR(Hpm_8 -> Chi_10 Cha_2)
4.13700035E-15	2	1000065	15	# BR(Hpm_8 -> Chi_10 Cha_3)
1.15609482E-01	2	1000065	-1000024	# BR(Hpm_8 -> Chi_10 Cha_4)
1.76565992E-07	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
3.39764484E-06	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
2.10741019E-06	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
5.03550031E-08	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
6.41606179E-05	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
3.04717986E-04	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
2.22341057E-06	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
1.05260468E-04	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
2.40161065E-01	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
4.79825581E-17	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
1.24655463E-05	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
8.26890012E-14	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3)
1.13691138E-13	2	37	1000014	# BR(Hpm_8 -> Hpm_2 hh_4)
1.81330687E-13	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5)
8.13709120E-26	2	37	2000012	# BR(Hpm_8 -> Hpm_2 hh_6)
4.11431410E-27	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
2.74395307E-17	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)

2.02334499E-26	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2)
3.75318918E-14	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
4.42164830E-14	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
7.78470571E-14	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5)
1.22972665E-05	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6)
1.77222783E-27	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7)
3.69560728E-24	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
4.01256713E-23	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
4.37760512E-23	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
6.72683070E-23	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
6.67795282E-30	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6)
3.92728586E-15	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7)
8.06763343E-19	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1)
1.07237832E-29	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2)
5.81840871E-21	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3)
1.23094620E-19	2	1000013	1000014	# BR(Hpm_8 -> Hpm_5 hh_4)
3.16617442E-20	2	1000013	1000016	# BR(Hpm_8 -> Hpm_5 hh_5)
5.76656945E-09	2	1000013	2000012	# BR(Hpm_8 -> Hpm_5 hh_6)
3.91543076E-15	2	2000013	25	# BR(Hpm_8 -> Hpm_6 hh_1)
3.84721889E-04	2	2000013	35	# BR(Hpm_8 -> Hpm_6 hh_2)
1.01746514E-18	2	2000013	1000012	# BR(Hpm_8 -> Hpm_6 hh_3)
4.59534157E-18	2	2000013	1000014	# BR(Hpm_8 -> Hpm_6 hh_4)
7.04731289E-17	2	2000013	1000016	# BR(Hpm_8 -> Hpm_6 hh_5)
4.97067802E-28	2	2000013	2000012	# BR(Hpm_8 -> Hpm_6 hh_6)
2.11151116E-18	2	1000015	25	# BR(Hpm_8 -> Hpm_7 hh_1)
3.46317430E-27	2	1000015	35	# BR(Hpm_8 -> Hpm_7 hh_2)
6.29365335E-15	2	1000015	1000012	# BR(Hpm_8 -> Hpm_7 hh_3)
5.98960957E-15	2	1000015	1000014	# BR(Hpm_8 -> Hpm_7 hh_4)
9.11874917E-15	2	1000015	1000016	# BR(Hpm_8 -> Hpm_7 hh_5)
4.14829792E-27	2	1000015	2000012	# BR(Hpm_8 -> Hpm_7 hh_6)
7.42962759E-06	2	1000015	2000014	# BR(Hpm_8 -> Hpm_7 hh_7)
6.98797081E-06	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
1.10881160E-14	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm)
1.54750523E-02	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
2.13129814E-02	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
3.31549763E-02	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
1.46032663E-14	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
5.94120819E-16	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
7.75911483E-20	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
2.14690716E-25	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
3.85242682E-24	2	2000011	23	# BR(Hpm_8 -> Hpm_4 VZ)
7.12691495E-19	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ)
2.09782410E-15	2	2000013	23	# BR(Hpm_8 -> Hpm_6 VZ)
7.74724515E-14	2	-1000002	1000001	# BR(Hpm_8 -> Su_1^* Sd_1)
1.31824701E-09	2	-1000002	1000003	# BR(Hpm_8 -> Su_1^* Sd_2)
1.73557847E-10	2	-1000002	1000005	# BR(Hpm_8 -> Su_1^* Sd_3)
4.53357433E-05	2	-1000002	2000001	# BR(Hpm_8 -> Su_1^* Sd_4)
9.63399208E-07	2	-1000002	2000003	# BR(Hpm_8 -> Su_1^* Sd_5)
2.65102335E-14	2	-1000002	2000005	# BR(Hpm_8 -> Su_1^* Sd_6)
6.22718683E-07	2	-1000004	1000001	# BR(Hpm_8 -> Su_2^* Sd_1)
6.26915734E-08	2	-1000004	1000003	# BR(Hpm_8 -> Su_2^* Sd_2)
3.72692250E-12	2	-1000004	1000005	# BR(Hpm_8 -> Su_2^* Sd_3)
9.70808452E-07	2	-1000004	2000001	# BR(Hpm_8 -> Su_2^* Sd_4)
4.56875739E-05	2	-1000004	2000003	# BR(Hpm_8 -> Su_2^* Sd_5)
1.59886426E-07	2	-1000004	2000005	# BR(Hpm_8 -> Su_2^* Sd_6)
3.78399408E-19	2	-1000006	1000001	# BR(Hpm_8 -> Su_3^* Sd_1)
3.58378561E-16	2	-1000006	1000003	# BR(Hpm_8 -> Su_3^* Sd_2)
1.88123448E-17	2	-1000006	1000005	# BR(Hpm_8 -> Su_3^* Sd_3)
2.89691038E-12	2	-1000006	2000001	# BR(Hpm_8 -> Su_3^* Sd_4)
1.54130286E-13	2	-1000006	2000003	# BR(Hpm_8 -> Su_3^* Sd_5)
2.68496328E-17	2	-1000006	2000005	# BR(Hpm_8 -> Su_3^* Sd_6)
1.31492806E-11	2	-2000002	1000001	# BR(Hpm_8 -> Su_4^* Sd_1)
1.59839852E-09	2	-2000002	1000003	# BR(Hpm_8 -> Su_4^* Sd_2)
2.39365585E-13	2	-2000002	1000005	# BR(Hpm_8 -> Su_4^* Sd_3)
3.68750535E-08	2	-2000002	2000001	# BR(Hpm_8 -> Su_4^* Sd_4)
6.87718827E-07	2	-2000002	2000003	# BR(Hpm_8 -> Su_4^* Sd_5)
9.33369506E-10	2	-2000002	2000005	# BR(Hpm_8 -> Su_4^* Sd_6)
6.39418755E-03	2	-2000004	1000001	# BR(Hpm_8 -> Su_5^* Sd_1)
1.03811732E-07	2	-2000004	1000003	# BR(Hpm_8 -> Su_5^* Sd_2)
6.14293458E-12	2	-2000004	1000005	# BR(Hpm_8 -> Su_5^* Sd_3)
9.11136142E-07	2	-2000004	2000001	# BR(Hpm_8 -> Su_5^* Sd_4)
4.29862940E-05	2	-2000004	2000003	# BR(Hpm_8 -> Su_5^* Sd_5)
3.02551238E-06	2	-2000004	2000005	# BR(Hpm_8 -> Su_5^* Sd_6)

7.95180338E-10

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23 # BR(Hpm_8 -> Vwm VZ)