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# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 25.09.2019, 13:02
Block SPINFO # Program information
  1 SPhenoSARAH # spectrum calculator
  2 v3.3.6 # version number of SPheno
  9 4.5.9b3 # version number of SARAH
Block MODSEL # Input parameters
  1 0 # SUSY Scale input
  2 1 # Boundary conditions
  6 1 # switching on flavour violation
Block MINPAR # Input parameters
  3 3.25419044E+01 # TanBeta
Block EXTPAR # Input parameters
  65 2.54457264E+03 # vR1Input
  66 2.54457264E+03 # vR2Input
  67 2.54457264E+03 # 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 1.08168725E+07 # mHd2
  22 3.33053338E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 7.32595020E+00 # vd
  103 2.38400371E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 4.59900316E-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 8.72224732E-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 4.51970985E-01 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 9.30196066E-05 # Real(Ye(1,1),dp)
  1 2 0.00000000E+00 # Real(Ye(1,2),dp)
  1 3 0.00000000E+00 # Real(Ye(1,3),dp)
  2 1 0.00000000E+00 # Real(Ye(2,1),dp)
  2 2 1.96604403E-02 # Real(Ye(2,2),dp)

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2 3      0.00000000E+00 # Real(Ye(2,3),dp)
3 1      0.00000000E+00 # Real(Ye(3,1),dp)
3 2      0.00000000E+00 # Real(Ye(3,2),dp)
3 3      3.34227489E-01 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
  1      1.98688437E-02 # Real(lam(1) ,dp)
  2      1.98688437E-02 # Real(lam(2) ,dp)
  3      1.98688437E-02 # Real(lam(3) ,dp)
Block Yv # (SUSY Scale)
  1 1      2.00000002E-07 # Real(Yv(1,1),dp)
  1 2      0.00000000E+00 # Real(Yv(1,2),dp)
  1 3      0.00000000E+00 # Real(Yv(1,3),dp)
  2 1      0.00000000E+00 # Real(Yv(2,1),dp)
  2 2      4.00000005E-07 # Real(Yv(2,2),dp)
  2 3      0.00000000E+00 # Real(Yv(2,3),dp)
  3 1      0.00000000E+00 # Real(Yv(3,1),dp)
  3 2      0.00000000E+00 # Real(Yv(3,2),dp)
  3 3      5.00000006E-08 # Real(Yv(3,3),dp)
Block Yu # (SUSY Scale)
  1 1      5.96438614E-06 # Real(Yu(1,1),dp)
  1 2      1.37955962E-06 # Real(Yu(1,2),dp)
  1 3      2.09674315E-08 # Real(Yu(1,3),dp)
  2 1      -6.72243058E-04 # Real(Yu(2,1),dp)
  2 2      2.90450698E-03 # Real(Yu(2,2),dp)
  2 3      1.22886969E-04 # Real(Yu(2,3),dp)
  3 1      4.98198857E-03 # Real(Yu(3,1),dp)
  3 2      -3.42608177E-02 # Real(Yu(3,2),dp)
  3 3      8.37028469E-01 # Real(Yu(3,3),dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
  1 1 1      3.62992308E-02 # Real(kap(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(kap(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(kap(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(kap(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(kap(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(kap(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(kap(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(kap(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(kap(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(kap(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(kap(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(kap(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(kap(2,2,1),dp)
  2 2 2      3.70252148E-02 # Real(kap(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(kap(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(kap(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(kap(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(kap(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(kap(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(kap(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(kap(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(kap(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(kap(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(kap(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(kap(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(kap(3,3,2),dp)
  3 3 3      3.77511987E-02 # Real(kap(3,3,3),dp)
Block Td # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Td(1,1),dp)
  1 2      0.00000000E+00 # Real(Td(1,2),dp)
  1 3      0.00000000E+00 # Real(Td(1,3),dp)
  2 1      0.00000000E+00 # Real(Td(2,1),dp)
  2 2      0.00000000E+00 # Real(Td(2,2),dp)
  2 3      0.00000000E+00 # Real(Td(2,3),dp)
  3 1      0.00000000E+00 # Real(Td(3,1),dp)
  3 2      0.00000000E+00 # Real(Td(3,2),dp)
  3 3      1.00000000E+02 # Real(Td(3,3),dp)
Block Te # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Te(1,1),dp)
  1 2      0.00000000E+00 # Real(Te(1,2),dp)
  1 3      0.00000000E+00 # Real(Te(1,3),dp)
  2 1      0.00000000E+00 # Real(Te(2,1),dp)
  2 2      0.00000000E+00 # Real(Te(2,2),dp)
  2 3      0.00000000E+00 # Real(Te(2,3),dp)

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3 1      0.00000000E+00 # Real(Te(3,1),dp)
3 2      0.00000000E+00 # Real(Te(3,2),dp)
3 3      4.00000000E+01 # Real(Te(3,3),dp)
Block {NMSSMRUN, 3} # (SUSY Scale)
  1      6.07043168E+01 # Real(Tlam(1) ,dp)
  2      6.07043168E+01 # Real(Tlam(2) ,dp)
  3      6.07043168E+01 # 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     -2.63261016E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1     -1.46146176E+00 # Real(Tk(1,1,1),dp)
  1 1 2      0.00000000E+00 # Real(Tk(1,1,2),dp)
  1 1 3      0.00000000E+00 # Real(Tk(1,1,3),dp)
  1 2 1      0.00000000E+00 # Real(Tk(1,2,1),dp)
  1 2 2      0.00000000E+00 # Real(Tk(1,2,2),dp)
  1 2 3      0.00000000E+00 # Real(Tk(1,2,3),dp)
  1 3 1      0.00000000E+00 # Real(Tk(1,3,1),dp)
  1 3 2      0.00000000E+00 # Real(Tk(1,3,2),dp)
  1 3 3      0.00000000E+00 # Real(Tk(1,3,3),dp)
  2 1 1      0.00000000E+00 # Real(Tk(2,1,1),dp)
  2 1 2      0.00000000E+00 # Real(Tk(2,1,2),dp)
  2 1 3      0.00000000E+00 # Real(Tk(2,1,3),dp)
  2 2 1      0.00000000E+00 # Real(Tk(2,2,1),dp)
  2 2 2     -1.46146176E+00 # Real(Tk(2,2,2),dp)
  2 2 3      0.00000000E+00 # Real(Tk(2,2,3),dp)
  2 3 1      0.00000000E+00 # Real(Tk(2,3,1),dp)
  2 3 2      0.00000000E+00 # Real(Tk(2,3,2),dp)
  2 3 3      0.00000000E+00 # Real(Tk(2,3,3),dp)
  3 1 1      0.00000000E+00 # Real(Tk(3,1,1),dp)
  3 1 2      0.00000000E+00 # Real(Tk(3,1,2),dp)
  3 1 3      0.00000000E+00 # Real(Tk(3,1,3),dp)
  3 2 1      0.00000000E+00 # Real(Tk(3,2,1),dp)
  3 2 2      0.00000000E+00 # Real(Tk(3,2,2),dp)
  3 2 3      0.00000000E+00 # Real(Tk(3,2,3),dp)
  3 3 1      0.00000000E+00 # Real(Tk(3,3,1),dp)
  3 3 2      0.00000000E+00 # Real(Tk(3,3,2),dp)
  3 3 3     -1.46146176E+00 # Real(Tk(3,3,3),dp)
Block MSQ2 # (SUSY Scale)
  1 1      1.00000000E+06 # Real(mq2(1,1),dp)
  1 2      0.00000000E+00 # Real(mq2(1,2),dp)
  1 3      0.00000000E+00 # Real(mq2(1,3),dp)
  2 1      0.00000000E+00 # Real(mq2(2,1),dp)
  2 2      1.00000000E+06 # Real(mq2(2,2),dp)
  2 3      0.00000000E+00 # Real(mq2(2,3),dp)
  3 1      0.00000000E+00 # Real(mq2(3,1),dp)
  3 2      0.00000000E+00 # Real(mq2(3,2),dp)
  3 3      2.57387699E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      2.82542838E+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      1.03693685E+06 # Real(ml2(2,2),dp)
  2 3      0.00000000E+00 # Real(ml2(2,3),dp)
  3 1      0.00000000E+00 # Real(ml2(3,1),dp)

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3 2 0.00000000E+00 # Real(ml2(3,2),dp)
3 3 2.13414058E+05 # Real(ml2(3,3),dp)
Block MSD2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(md2(1,1),dp)
1 2 0.00000000E+00 # Real(md2(1,2),dp)
1 3 0.00000000E+00 # Real(md2(1,3),dp)
2 1 0.00000000E+00 # Real(md2(2,1),dp)
2 2 1.00000000E+06 # Real(md2(2,2),dp)
2 3 0.00000000E+00 # Real(md2(2,3),dp)
3 1 0.00000000E+00 # Real(md2(3,1),dp)
3 2 0.00000000E+00 # Real(md2(3,2),dp)
3 3 1.00000000E+06 # Real(md2(3,3),dp)
Block MSU2 # (SUSY Scale)
1 1 1.00000000E+06 # Real(mu2(1,1),dp)
1 2 0.00000000E+00 # Real(mu2(1,2),dp)
1 3 0.00000000E+00 # Real(mu2(1,3),dp)
2 1 0.00000000E+00 # Real(mu2(2,1),dp)
2 2 1.00000000E+06 # Real(mu2(2,2),dp)
2 3 0.00000000E+00 # Real(mu2(2,3),dp)
3 1 0.00000000E+00 # Real(mu2(3,1),dp)
3 2 0.00000000E+00 # Real(mu2(3,2),dp)
3 3 2.57387699E+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 -6.05159044E+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 -6.39635837E+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 -6.74795508E+03 # Real(mv2(3,3),dp)
Block RVM2LH1 # (SUSY Scale)
1 0.00000000E+00 # mlHd2(1)
2 0.00000000E+00 # mlHd2(2)
3 0.00000000E+00 # mlHd2(3)
Block RIGHTVEV # (SUSY Scale)
1 2.54457264E+03 # vR(1)
2 2.54457264E+03 # vR(2)
3 2.54457264E+03 # 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 1.00028469E+03 # Sd_1
1000003 1.00029610E+03 # Sd_2
1000005 1.00030051E+03 # Sd_3
2000001 1.00170047E+03 # Sd_4
2000003 1.00170488E+03 # Sd_5
2000005 1.60540445E+03 # Sd_6
1000002 9.98597672E+02 # Su_1
1000004 9.98614623E+02 # Su_2
1000006 9.99398693E+02 # Su_3
2000002 9.99398821E+02 # Su_4
2000004 1.46545035E+03 # Su_5
2000006 1.74242882E+03 # Su_6
25 1.19694527E+02 # hh_1
35 1.22541499E+02 # hh_2
1000012 1.24802059E+02 # hh_3
1000014 1.25559204E+02 # hh_4
1000016 4.88881648E+02 # hh_5

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2000012      1.03488226E+03 # hh_6
2000014      1.69390389E+03 # hh_7
2000016      3.29045380E+03 # hh_8
   36      8.87579182E+01 # Ah_2
1000017      8.79499625E+01 # Ah_3
1000018      8.79510262E+01 # Ah_4
1000019      4.88881650E+02 # Ah_5
2000018      1.03488226E+03 # Ah_6
2000019      1.69390390E+03 # Ah_7
2000020      3.29044648E+03 # Ah_8
   37      4.95748447E+02 # Hpm_2
1000011      1.00294213E+03 # Hpm_3
2000011      1.00294325E+03 # Hpm_4
1000013      1.00375136E+03 # Hpm_5
2000013      1.03849141E+03 # Hpm_6
1000015      1.69551364E+03 # Hpm_7
2000015      3.29143493E+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      3.83421643E-12 # Chi_1
   14      1.62735892E-11 # Chi_2
   16      5.95638254E-11 # Chi_3
1000022      1.06418505E+02 # Chi_4
1000023      1.13197706E+02 # Chi_5
1000025      1.30827129E+02 # Chi_6
1000039      1.33445688E+02 # Chi_7
1000045      1.36067462E+02 # Chi_8
1000055      8.89372838E+02 # Chi_9
1000065      1.78375335E+03 # Chi_10
   11      5.10998930E-04 # Cha_1
   13      1.05658372E-01 # Cha_2
   15      1.77669000E+00 # Cha_3
1000024      1.10292338E+02 # Cha_4
1000037      1.78380437E+03 # Cha_5
Block DSQMIX # ( )
 1 1 -0.00000000E+00 # Real(ZD(1,1),dp)
 1 2 -0.00000000E+00 # Real(ZD(1,2),dp)
 1 3 -4.85393539E-03 # Real(ZD(1,3),dp)
 1 4 -0.00000000E+00 # Real(ZD(1,4),dp)
 1 5 -0.00000000E+00 # Real(ZD(1,5),dp)
 1 6 -9.99988220E-01 # Real(ZD(1,6),dp)
 2 1 -3.92301026E-14 # Real(ZD(2,1),dp)
 2 2 -5.60000609E-02 # Real(ZD(2,2),dp)
 2 3 0.00000000E+00 # Real(ZD(2,3),dp)
 2 4 -1.32651937E-11 # Real(ZD(2,4),dp)
 2 5 -9.98430765E-01 # Real(ZD(2,5),dp)
 2 6 0.00000000E+00 # Real(ZD(2,6),dp)
 3 1 2.96666501E-03 # Real(ZD(3,1),dp)
 3 2 -7.40430015E-13 # Real(ZD(3,2),dp)
 3 3 0.00000000E+00 # Real(ZD(3,3),dp)
 3 4 9.99995599E-01 # Real(ZD(3,4),dp)
 3 5 -1.32445654E-11 # Real(ZD(3,5),dp)
 3 6 0.00000000E+00 # Real(ZD(3,6),dp)
 4 1 9.99995599E-01 # Real(ZD(4,1),dp)
 4 2 -2.34848330E-15 # Real(ZD(4,2),dp)
 4 3 0.00000000E+00 # Real(ZD(4,3),dp)
 4 4 -2.96666501E-03 # Real(ZD(4,4),dp)
 4 5 2.55356949E-16 # Real(ZD(4,5),dp)
 4 6 0.00000000E+00 # Real(ZD(4,6),dp)
 5 1 2.35193529E-15 # Real(ZD(5,1),dp)
 5 2 9.98430765E-01 # Real(ZD(5,2),dp)
 5 3 -0.00000000E+00 # Real(ZD(5,3),dp)
 5 4 -2.32770069E-15 # Real(ZD(5,4),dp)
 5 5 -5.60000609E-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     -9.99988220E-01 # Real(ZD(6,3),dp)
6 4      0.00000000E+00 # Real(ZD(6,4),dp)
6 5      0.00000000E+00 # Real(ZD(6,5),dp)
6 6      4.85393539E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -9.89503877E-01 # Real(ZU(1,1),dp)
1 2     -1.44506299E-01 # Real(ZU(1,2),dp)
1 3     -3.41479314E-07 # Real(ZU(1,3),dp)
1 4     -2.11794703E-06 # Real(ZU(1,4),dp)
1 5      8.51980482E-05 # Real(ZU(1,5),dp)
1 6     -8.77023553E-08 # Real(ZU(1,6),dp)
2 1     -1.44506106E-01 # Real(ZU(2,1),dp)
2 2      9.89503181E-01 # Real(ZU(2,2),dp)
2 3      5.56538769E-04 # Real(ZU(2,3),dp)
2 4      1.78455858E-07 # Real(ZU(2,4),dp)
2 5      1.05355094E-03 # Real(ZU(2,5),dp)
2 6      1.42918947E-04 # Real(ZU(2,6),dp)
3 1      2.06993417E-06 # Real(ZU(3,1),dp)
3 2      4.82616117E-07 # Real(ZU(3,2),dp)
3 3      9.22097040E-11 # Real(ZU(3,3),dp)
3 4     -1.00000000E+00 # Real(ZU(3,4),dp)
3 5      2.25409556E-08 # Real(ZU(3,5),dp)
3 6      2.35331909E-11 # Real(ZU(3,6),dp)
4 1     -2.36548479E-04 # Real(ZU(4,1),dp)
4 2      1.03018096E-03 # Real(ZU(4,2),dp)
4 3      5.40487407E-07 # Real(ZU(4,3),dp)
4 4     -2.25334008E-08 # Real(ZU(4,4),dp)
4 5     -9.99999441E-01 # Real(ZU(4,5),dp)
4 6      1.37939701E-07 # Real(ZU(4,6),dp)
5 1     -7.12099656E-05 # Real(ZU(5,1),dp)
5 2      4.89710022E-04 # Real(ZU(5,2),dp)
5 3     -7.07756554E-01 # Real(ZU(5,3),dp)
5 4      7.05574851E-12 # Real(ZU(5,4),dp)
5 5      4.13527029E-08 # Real(ZU(5,5),dp)
5 6     -7.06456237E-01 # Real(ZU(5,6),dp)
6 1     -4.20212376E-05 # Real(ZU(6,1),dp)
6 2      2.88979430E-04 # Real(ZU(6,2),dp)
6 3     -7.06456191E-01 # Real(ZU(6,3),dp)
6 4      3.99912060E-12 # Real(ZU(6,4),dp)
6 5      2.34382521E-08 # Real(ZU(6,5),dp)
6 6      7.07756713E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1     -5.20358301E-04 # ZH(1,1)
1 2     -4.54600878E-02 # ZH(1,2)
1 3      9.96232171E-01 # ZH(1,3)
1 4     -6.66007949E-02 # ZH(1,4)
1 5     -3.19202872E-02 # ZH(1,5)
1 6      2.93263678E-08 # ZH(1,6)
1 7     -8.83780606E-08 # ZH(1,7)
1 8     -1.23326718E-07 # ZH(1,8)
2 1     -2.21144258E-03 # ZH(2,1)
2 2     -1.03137864E-01 # ZH(2,2)
2 3      5.93977629E-02 # ZH(2,3)
2 4      9.90674279E-01 # ZH(2,4)
2 5     -6.62877817E-02 # ZH(2,5)
2 6     -6.18310425E-08 # ZH(2,6)
2 7     -2.38735229E-08 # ZH(2,7)
2 8     -2.79070092E-07 # ZH(2,8)
3 1     -2.55090262E-02 # ZH(3,1)
3 2     -8.42937412E-01 # ZH(3,2)
3 3     -2.47346938E-02 # ZH(3,3)
3 4     -5.05700964E-02 # ZH(3,4)
3 5      5.34449875E-01 # ZH(3,5)
3 6     -5.35373027E-07 # ZH(3,6)
3 7     -1.45878182E-06 # ZH(3,7)
3 8     -2.04102232E-06 # ZH(3,8)
4 1      1.71628081E-02 # ZH(4,1)
4 2      5.25171335E-01 # ZH(4,2)
4 3      5.81429454E-02 # ZH(4,3)
4 4      1.07566314E-01 # ZH(4,4)
4 5      8.41991326E-01 # ZH(4,5)
4 6      3.36091170E-07 # ZH(4,6)

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4	7	9.20921443E-07	# ZH(4,7)
4	8	1.53953758E-06	# ZH(4,8)
5	1	-7.98562153E-08	# ZH(5,1)
5	2	-2.56334303E-06	# ZH(5,2)
5	3	-5.58454928E-10	# ZH(5,3)
5	4	-5.62499283E-10	# ZH(5,4)
5	5	-2.27888054E-07	# ZH(5,5)
5	6	-1.76049664E-12	# ZH(5,6)
5	7	-9.36698171E-10	# ZH(5,7)
5	8	1.00000000E+00	# ZH(5,8)
6	1	-5.06422415E-08	# ZH(6,1)
6	2	-1.71985946E-06	# ZH(6,2)
6	3	-1.66930620E-10	# ZH(6,3)
6	4	-1.55068453E-07	# ZH(6,4)
6	5	-1.68110830E-10	# ZH(6,5)
6	6	-1.86697448E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	9.32285412E-10	# ZH(6,8)
7	1	2.14010803E-08	# ZH(7,1)
7	2	6.32778232E-07	# ZH(7,2)
7	3	5.83250466E-08	# ZH(7,3)
7	4	1.65519595E-11	# ZH(7,4)
7	5	1.65186248E-11	# ZH(7,5)
7	6	-1.00000000E+00	# ZH(7,6)
7	7	-7.77732485E-13	# ZH(7,7)
7	8	-1.36723609E-13	# ZH(7,8)
8	1	9.99524670E-01	# ZH(8,1)
8	2	-3.07822981E-02	# ZH(8,2)
8	3	-9.79567363E-04	# ZH(8,3)
8	4	-9.80436944E-04	# ZH(8,4)
8	5	-9.81307782E-04	# ZH(8,5)
8	6	1.85537399E-09	# ZH(8,6)
8	7	-2.47542009E-09	# ZH(8,7)
8	8	6.87940933E-10	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	3.07141123E-02	# ZA(1,1)
1	2	-9.99528206E-01	# ZA(1,2)
1	3	-2.15992119E-05	# ZA(1,3)
1	4	5.46782152E-05	# ZA(1,4)
1	5	6.80955408E-05	# ZA(1,5)
1	6	6.27733884E-07	# ZA(1,6)
1	7	1.68135611E-06	# ZA(1,7)
1	8	2.30873531E-06	# ZA(1,8)
2	1	1.55479041E-03	# ZA(2,1)
2	2	1.06148286E-04	# ZA(2,2)
2	3	5.78117587E-01	# ZA(2,3)
2	4	5.77343955E-01	# ZA(2,4)
2	5	5.76586147E-01	# ZA(2,5)
2	6	3.53622253E-08	# ZA(2,6)
2	7	9.85827595E-08	# ZA(2,7)
2	8	1.32202774E-07	# ZA(2,8)
3	1	4.37962828E-07	# ZA(3,1)
3	2	-2.65180643E-05	# ZA(3,2)
3	3	2.08051794E-01	# ZA(3,3)
3	4	5.78983009E-01	# ZA(3,4)
3	5	-7.88348353E-01	# ZA(3,5)
3	6	1.27667554E-08	# ZA(3,6)
3	7	9.90827130E-08	# ZA(3,7)
3	8	-1.80931408E-07	# ZA(3,8)
4	1	1.54573141E-06	# ZA(4,1)
4	2	-6.31164805E-05	# ZA(4,2)
4	3	7.88982697E-01	# ZA(4,3)
4	4	-5.75718526E-01	# ZA(4,4)
4	5	-2.14603071E-01	# ZA(4,5)
4	6	4.83910641E-08	# ZA(4,6)
4	7	-9.83733847E-08	# ZA(4,7)
4	8	-4.91236811E-08	# ZA(4,8)
5	1	-7.17053351E-08	# ZA(5,1)
5	2	2.30760603E-06	# ZA(5,2)
5	3	2.24868973E-11	# ZA(5,3)
5	4	2.26177568E-11	# ZA(5,4)
5	5	-2.29562044E-07	# ZA(5,5)
5	6	-1.57569689E-12	# ZA(5,6)

5	7	-9.36025498E-10	# ZA(5,7)
5	8	1.00000000E+00	# ZA(5,8)
6	1	-4.92343408E-08	# ZA(6,1)
6	2	1.68062748E-06	# ZA(6,2)
6	3	4.21460519E-11	# ZA(6,3)
6	4	-1.71012984E-07	# ZA(6,4)
6	5	4.22155375E-11	# ZA(6,5)
6	6	-1.81453907E-12	# ZA(6,6)
6	7	1.00000000E+00	# ZA(6,7)
6	8	9.32143755E-10	# ZA(6,8)
7	1	2.11400576E-08	# ZA(7,1)
7	2	-6.27381906E-07	# ZA(7,2)
7	3	6.12641991E-08	# ZA(7,3)
7	4	-1.90305640E-11	# ZA(7,4)
7	5	-1.90282255E-11	# ZA(7,5)
7	6	-1.00000000E+00	# ZA(7,6)
7	7	-7.59119199E-13	# ZA(7,7)
7	8	-1.26436513E-13	# ZA(7,8)
8	1	9.99527001E-01	# ZA(8,1)
8	2	3.07139843E-02	# ZA(8,2)
8	3	-8.99924617E-04	# ZA(8,3)
8	4	-8.99117185E-04	# ZA(8,4)
8	5	-8.98310020E-04	# ZA(8,5)
8	6	1.80556138E-09	# ZA(8,6)
8	7	-2.56139792E-09	# ZA(8,7)
8	8	5.89465907E-10	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	3.07140732E-02	# ZP(1,1)
1	2	-9.99528212E-01	# ZP(1,2)
1	3	6.28777814E-07	# ZP(1,3)
1	4	1.68041120E-06	# ZP(1,4)
1	5	2.30117387E-06	# ZP(1,5)
1	6	-9.25843254E-18	# ZP(1,6)
1	7	-2.47527248E-13	# ZP(1,7)
1	8	-2.55327054E-11	# ZP(1,8)
2	1	7.13181067E-08	# ZP(2,1)
2	2	-2.30000123E-06	# ZP(2,2)
2	3	1.57766392E-12	# ZP(2,3)
2	4	4.97617142E-12	# ZP(2,4)
2	5	-9.99970846E-01	# ZP(2,5)
2	6	2.76276354E-19	# ZP(2,6)
2	7	2.80954621E-16	# ZP(2,7)
2	8	-7.63595884E-03	# ZP(2,8)
3	1	5.44979381E-13	# ZP(3,1)
3	2	5.94492161E-13	# ZP(3,2)
3	3	9.18411831E-07	# ZP(3,3)
3	4	1.93044378E-15	# ZP(3,4)
3	5	3.70929920E-19	# ZP(3,5)
3	6	1.00000000E+00	# ZP(3,6)
3	7	3.25357024E-13	# ZP(3,7)
3	8	3.53098414E-18	# ZP(3,8)
4	1	-5.79658542E-11	# ZP(4,1)
4	2	1.00896359E-08	# ZP(4,2)
4	3	-1.06453878E-14	# ZP(4,3)
4	4	6.00264030E-03	# ZP(4,4)
4	5	6.77673538E-15	# ZP(4,5)
4	6	-3.25380301E-13	# ZP(4,6)
4	7	9.99981984E-01	# ZP(4,7)
4	8	3.09412135E-14	# ZP(4,8)
5	1	-2.47027365E-09	# ZP(5,1)
5	2	1.75295990E-08	# ZP(5,2)
5	3	-1.70855220E-14	# ZP(5,3)
5	4	-5.82569188E-13	# ZP(5,4)
5	5	7.63595884E-03	# ZP(5,5)
5	6	3.53467384E-18	# ZP(5,6)
5	7	3.42096734E-14	# ZP(5,7)
5	8	-9.99970846E-01	# ZP(5,8)
6	1	4.90727945E-08	# ZP(6,1)
6	2	-1.67966615E-06	# ZP(6,2)
6	3	1.83211039E-12	# ZP(6,3)
6	4	-9.99981984E-01	# ZP(6,4)
6	5	-1.11353754E-12	# ZP(6,5)
6	6	-2.33958644E-17	# ZP(6,6)

6	7	6.00264030E-03	# ZP(6,7)
6	8	5.44711894E-13	# ZP(6,8)
7	1	-2.10632798E-08	# ZP(7,1)
7	2	6.28427360E-07	# ZP(7,2)
7	3	1.00000000E+00	# ZP(7,3)
7	4	7.75743993E-13	# ZP(7,4)
7	5	1.30820150E-13	# ZP(7,5)
7	6	-9.18411831E-07	# ZP(7,6)
7	7	-3.52093074E-16	# ZP(7,7)
7	8	-5.01861977E-15	# ZP(7,8)
8	1	-9.99528212E-01	# ZP(8,1)
8	2	-3.07140732E-02	# ZP(8,2)
8	3	-1.75177844E-09	# ZP(8,3)
8	4	2.54121302E-09	# ZP(8,4)
8	5	-6.56777653E-10	# ZP(8,5)
8	6	5.64524363E-13	# ZP(8,6)
8	7	2.36705586E-10	# ZP(8,7)
8	8	1.92574382E-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	-2.44227927E-06	# Real(UV(4,1), dp)
4	2	-4.89071314E-06	# Real(UV(4,2), dp)
4	3	-7.16494024E-07	# Real(UV(4,3), dp)
4	4	3.87301470E-02	# Real(UV(4,4), dp)
4	5	-3.38441427E-02	# Real(UV(4,5), dp)
4	6	7.06789649E-01	# Real(UV(4,6), dp)
4	7	-6.89996711E-01	# Real(UV(4,7), dp)
4	8	9.32989658E-02	# Real(UV(4,8), dp)
4	9	8.42648615E-02	# Real(UV(4,9), dp)
4	10	7.68258873E-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	4.03927677E-07	# Real(UV(6,1), dp)
6	2	2.55948894E-07	# Real(UV(6,2), dp)
6	3	4.13819999E-08	# Real(UV(6,3), dp)
6	4	-2.96621117E-03	# Real(UV(6,4), dp)

6	5	2.58837630E-03	# Real(UV(6,5),dp)
6	6	-6.52530415E-02	# Real(UV(6,6),dp)
6	7	5.16402450E-02	# Real(UV(6,7),dp)
6	8	9.91801406E-01	# Real(UV(6,8),dp)
6	9	-8.73970017E-02	# Real(UV(6,9),dp)
6	10	-4.18516810E-02	# Real(UV(6,10),dp)
7	1	1.67677680E-07	# Real(UV(7,1),dp)
7	2	7.93834422E-07	# Real(UV(7,2),dp)
7	3	3.79012702E-08	# Real(UV(7,3),dp)
7	4	-2.99696581E-03	# Real(UV(7,4),dp)
7	5	2.61524504E-03	# Real(UV(7,5),dp)
7	6	-6.71144351E-02	# Real(UV(7,6),dp)
7	7	5.20551546E-02	# Real(UV(7,7),dp)
7	8	7.62376733E-02	# Real(UV(7,8),dp)
7	9	9.89362093E-01	# Real(UV(7,9),dp)
7	10	-9.01141387E-02	# Real(UV(7,10),dp)
8	1	1.59833750E-07	# Real(UV(8,1),dp)
8	2	3.38518414E-07	# Real(UV(8,2),dp)
8	3	1.04993573E-07	# Real(UV(8,3),dp)
8	4	-3.08484819E-03	# Real(UV(8,4),dp)
8	5	2.69205178E-03	# Real(UV(8,5),dp)
8	6	-7.03014877E-02	# Real(UV(8,6),dp)
8	7	5.34592100E-02	# Real(UV(8,7),dp)
8	8	4.14478107E-02	# Real(UV(8,8),dp)
8	9	7.95655942E-02	# Real(UV(8,9),dp)
8	10	9.92035506E-01	# Real(UV(8,10),dp)
9	1	-8.68121732E-09	# Real(UV(9,1),dp)
9	2	-3.72775053E-08	# Real(UV(9,2),dp)
9	3	-1.02452221E-07	# Real(UV(9,3),dp)
9	4	9.98799406E-01	# Real(UV(9,4),dp)
9	5	4.41612099E-03	# Real(UV(9,5),dp)
9	6	-7.43815789E-03	# Real(UV(9,6),dp)
9	7	4.82173880E-02	# Real(UV(9,7),dp)
9	8	-2.79603935E-05	# Real(UV(9,8),dp)
9	9	-2.80568146E-05	# Real(UV(9,9),dp)
9	10	-2.81539031E-05	# Real(UV(9,10),dp)
10	1	-1.85262871E-08	# Real(UV(10,1),dp)
10	2	-5.57344537E-08	# Real(UV(10,2),dp)
10	3	-9.91642978E-08	# Real(UV(10,3),dp)
10	4	2.21640722E-03	# Real(UV(10,4),dp)
10	5	-9.98978293E-01	# Real(UV(10,5),dp)
10	6	-4.07299600E-03	# Real(UV(10,6),dp)
10	7	4.49540674E-02	# Real(UV(10,7),dp)
10	8	5.90486484E-06	# Real(UV(10,8),dp)
10	9	5.91433028E-06	# Real(UV(10,9),dp)
10	10	5.92382463E-06	# Real(UV(10,10),dp)

Block IMUVMIX # ()

1	1	-8.27770531E-01	# Aimag(UV(1,1))
1	2	-2.62828091E-01	# Aimag(UV(1,2))
1	3	4.95698843E-01	# Aimag(UV(1,3))
1	4	2.73110537E-09	# Aimag(UV(1,4))
1	5	-2.14973298E-09	# Aimag(UV(1,5))
1	6	-4.17991469E-06	# Aimag(UV(1,6))
1	7	-1.52243703E-10	# Aimag(UV(1,7))
1	8	1.06203596E-07	# Aimag(UV(1,8))
1	9	2.84241958E-08	# Aimag(UV(1,9))
1	10	-1.32316575E-07	# Aimag(UV(1,10))
2	1	5.46558568E-01	# Aimag(UV(2,1))
2	2	-5.77351454E-01	# Aimag(UV(2,2))
2	3	6.06579780E-01	# Aimag(UV(2,3))
2	4	3.44843544E-08	# Aimag(UV(2,4))
2	5	-3.20145642E-08	# Aimag(UV(2,5))
2	6	-1.49468987E-06	# Aimag(UV(2,6))
2	7	-1.06267255E-09	# Aimag(UV(2,7))
2	8	-1.77808466E-07	# Aimag(UV(2,8))
2	9	2.53212065E-07	# Aimag(UV(2,9))
2	10	-7.37958764E-08	# Aimag(UV(2,10))
3	1	1.26766242E-01	# Aimag(UV(3,1))
3	2	7.73037316E-01	# Aimag(UV(3,2))
3	3	6.21565465E-01	# Aimag(UV(3,3))
3	4	1.42157512E-07	# Aimag(UV(3,4))
3	5	-1.33152341E-07	# Aimag(UV(3,5))
3	6	6.39610182E-06	# Aimag(UV(3,6))

3 7 -4.66603252E-09 # Aimag(UV(3,7))
3 8 1.29466053E-07 # Aimag(UV(3,8))
3 9 -2.29930457E-07 # Aimag(UV(3,9))
3 10 1.17355782E-07 # Aimag(UV(3,10))
4 1 0.00000000E+00 # Aimag(UV(4,1))
4 2 0.00000000E+00 # Aimag(UV(4,2))
4 3 0.00000000E+00 # Aimag(UV(4,3))
4 4 0.00000000E+00 # Aimag(UV(4,4))
4 5 0.00000000E+00 # Aimag(UV(4,5))
4 6 0.00000000E+00 # Aimag(UV(4,6))
4 7 0.00000000E+00 # Aimag(UV(4,7))
4 8 0.00000000E+00 # Aimag(UV(4,8))
4 9 0.00000000E+00 # Aimag(UV(4,9))
4 10 0.00000000E+00 # Aimag(UV(4,10))
5 1 2.40675755E-06 # Aimag(UV(5,1))
5 2 4.81066090E-06 # Aimag(UV(5,2))
5 3 6.86762883E-07 # Aimag(UV(5,3))
5 4 2.94535895E-02 # Aimag(UV(5,4))
5 5 -2.92686791E-02 # Aimag(UV(5,5))
5 6 -6.97618714E-01 # Aimag(UV(5,6))
5 7 -7.15069516E-01 # Aimag(UV(5,7))
5 8 -9.75550407E-03 # Aimag(UV(5,8))
5 9 -9.65200736E-03 # Aimag(UV(5,9))
5 10 -9.55068375E-03 # 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      1.91165080E-10 # Real(ZER(1,2),dp)
 1 3      1.86023039E-08 # Real(ZER(1,3),dp)
 1 4     -4.60384733E-08 # Real(ZER(1,4),dp)
 1 5      3.46356356E-06 # Real(ZER(1,5),dp)
 2 1      2.15175961E-10 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -5.29895935E-10 # Real(ZER(2,3),dp)
 2 4      1.18454047E-07 # Real(ZER(2,4),dp)
 2 5     -6.93078862E-06 # Real(ZER(2,5),dp)
 3 1     -1.86059312E-08 # Real(ZER(3,1),dp)
 3 2     -5.37158565E-10 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.45907140E-07 # Real(ZER(3,4),dp)
 3 5      1.04533254E-06 # Real(ZER(3,5),dp)
 4 1      3.46377123E-06 # Real(ZER(4,1),dp)
 4 2      6.93135584E-06 # Real(ZER(4,2),dp)
 4 3      1.04615552E-06 # Real(ZER(4,3),dp)
 4 4      5.75879000E-03 # Real(ZER(4,4),dp)
 4 5     -9.99983418E-01 # Real(ZER(4,5),dp)
 5 1      2.60917721E-08 # Real(ZER(5,1),dp)
 5 2      7.85391262E-08 # Real(ZER(5,2),dp)
 5 3      1.39884870E-07 # Real(ZER(5,3),dp)
 5 4      9.99983418E-01 # Real(ZER(5,4),dp)
 5 5      5.75879000E-03 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      6.76215560E-12 # Real(ZEL(1,2),dp)
 1 3      5.08051264E-13 # Real(ZEL(1,3),dp)
 1 4     -6.62586778E-12 # Real(ZEL(1,4),dp)
 1 5      1.04398078E-10 # Real(ZEL(1,5),dp)
 2 1      6.76216229E-12 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -2.77423137E-10 # Real(ZEL(2,3),dp)
 2 4      3.60438227E-09 # Real(ZEL(2,4),dp)
 2 5     -5.68026444E-08 # Real(ZEL(2,5),dp)
 3 1     -5.08176105E-13 # Real(ZEL(3,1),dp)
 3 2     -2.77491065E-10 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -7.56002467E-08 # Real(ZEL(3,4),dp)
 3 5      1.19122869E-06 # Real(ZEL(3,5),dp)
 4 1      1.04608126E-10 # Real(ZEL(4,1),dp)
 4 2      5.69168844E-08 # Real(ZEL(4,2),dp)
 4 3      1.19362520E-06 # Real(ZEL(4,3),dp)
 4 4      6.35846854E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97976447E-01 # Real(ZEL(4,5),dp)
 5 1     -2.56589730E-14 # Real(ZEL(5,1),dp)
 5 2     -1.46896564E-11 # Real(ZEL(5,2),dp)
 5 3     -2.96636217E-10 # Real(ZEL(5,3),dp)
 5 4      9.97976447E-01 # Real(ZEL(5,4),dp)
 5 5      6.35846854E-02 # Real(ZEL(5,5),dp)
Block UDLMIX # ( )
 1 1      1.00000000E+00 # Real(ZDL(1,1),dp)
 1 2      0.00000000E+00 # Real(ZDL(1,2),dp)
 1 3      0.00000000E+00 # Real(ZDL(1,3),dp)
 2 1      0.00000000E+00 # Real(ZDL(2,1),dp)
 2 2      1.00000000E+00 # Real(ZDL(2,2),dp)
 2 3      0.00000000E+00 # Real(ZDL(2,3),dp)
 3 1      0.00000000E+00 # Real(ZDL(3,1),dp)
 3 2      0.00000000E+00 # Real(ZDL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZDL(3,3),dp)
Block UDRMIX # ( )
 1 1      1.00000000E+00 # Real(ZDR(1,1),dp)
 1 2      0.00000000E+00 # Real(ZDR(1,2),dp)
 1 3      0.00000000E+00 # Real(ZDR(1,3),dp)
 2 1      0.00000000E+00 # Real(ZDR(2,1),dp)
 2 2      1.00000000E+00 # Real(ZDR(2,2),dp)
 2 3      0.00000000E+00 # Real(ZDR(2,3),dp)
 3 1      0.00000000E+00 # Real(ZDR(3,1),dp)
 3 2      0.00000000E+00 # Real(ZDR(3,2),dp)
 3 3      1.00000000E+00 # Real(ZDR(3,3),dp)

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Block UULMIX # ( )
 1 1 9.74272160E-01 # Real(ZUL(1,1),dp)
 1 2 2.25348678E-01 # Real(ZUL(1,2),dp)
 1 3 3.42499367E-03 # Real(ZUL(1,3),dp)
 2 1 -2.25296231E-01 # Real(ZUL(2,1),dp)
 2 2 9.73419462E-01 # Real(ZUL(2,2),dp)
 2 3 4.11844653E-02 # Real(ZUL(2,3),dp)
 3 1 5.94690932E-03 # Real(ZUL(3,1),dp)
 3 2 -4.08965161E-02 # Real(ZUL(3,2),dp)
 3 3 9.99145690E-01 # Real(ZUL(3,3),dp)
Block UURMIX # ( )
 1 1 1.00000000E+00 # Real(ZUR(1,1),dp)
 1 2 1.08420217E-19 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 -1.08420217E-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 2.32448957E-06 # hh_1
# BR NDA ID1 ID2
8.99062700E-03 2 22 22 # BR(hh_1 -> VP VP )
2.85551131E-01 2 21 21 # BR(hh_1 -> VG VG )
3.54066097E-02 2 23 23 # BR(hh_1 -> VZ VZ )
3.90194998E-01 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
2.40010812E-09 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
8.52706224E-24 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
2.78219615E-21 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
2.22370553E-10 2 -11 -1000024 # BR(hh_1 -> Cha_1^* Cha_4 )
8.52706224E-24 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
1.07217643E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
7.62388075E-20 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
2.82521374E-10 2 -13 -1000024 # BR(hh_1 -> Cha_2^* Cha_4 )
2.78219615E-21 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
7.62388075E-20 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
3.09450905E-02 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
4.83661112E-11 2 -15 -1000024 # BR(hh_1 -> Cha_3^* Cha_4 )
2.22370553E-10 2 1000024 11 # BR(hh_1 -> Cha_4^* Cha_1 )
2.82521374E-10 2 1000024 13 # BR(hh_1 -> Cha_4^* Cha_2 )
4.83661112E-11 2 1000024 15 # BR(hh_1 -> Cha_4^* Cha_3 )
5.08071456E-24 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
7.69950451E-28 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
4.96660636E-23 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
1.64363136E-10 2 12 1000022 # BR(hh_1 -> Chi_1 Chi_4 )
4.31108190E-11 2 12 1000023 # BR(hh_1 -> Chi_1 Chi_5 )
4.38635874E-23 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
1.90058842E-23 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
4.85092258E-10 2 14 1000022 # BR(hh_1 -> Chi_2 Chi_4 )
1.28893446E-10 2 14 1000023 # BR(hh_1 -> Chi_2 Chi_5 )
6.78025231E-22 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
3.18001946E-10 2 16 1000022 # BR(hh_1 -> Chi_3 Chi_4 )
8.25258609E-11 2 16 1000023 # BR(hh_1 -> Chi_3 Chi_5 )
1.93823140E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
6.97163936E-05 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
1.86479817E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
2.62122737E-07 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
6.22543326E-02 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 2.11006649E-05 # hh_2
# BR NDA ID1 ID2
4.92819635E-03 2 22 22 # BR(hh_2 -> VP VP )
1.71711335E-01 2 21 21 # BR(hh_2 -> VG VG )
3.14692478E-02 2 23 23 # BR(hh_2 -> VZ VZ )
3.12421085E-01 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
4.88897172E-09 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
4.56339331E-25 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
2.45812349E-21 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
7.63591002E-12 2 -11 -1000024 # BR(hh_2 -> Cha_1^* Cha_4 )
4.56339331E-25 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
2.18400219E-04 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
1.28229403E-22 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
1.32905519E-10 2 -13 -1000024 # BR(hh_2 -> Cha_2^* Cha_4 )
2.45812349E-21 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )

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1.28229403E-22	2		-15	13	# BR(hh_2 -> Cha_3^* Cha_2)
6.30383544E-02	2		-15	15	# BR(hh_2 -> Cha_3^* Cha_3)
3.02172304E-11	2		-15	-1000024	# BR(hh_2 -> Cha_3^* Cha_4)
7.63591002E-12	2	1000024		11	# BR(hh_2 -> Cha_4^* Cha_1)
1.32905519E-10	2	1000024		13	# BR(hh_2 -> Cha_4^* Cha_2)
3.02172304E-11	2	1000024		15	# BR(hh_2 -> Cha_4^* Cha_3)
1.53417734E-24	2		12	12	# BR(hh_2 -> Chi_1 Chi_1)
5.82148947E-25	2		12	14	# BR(hh_2 -> Chi_1 Chi_2)
3.78304813E-24	2		12	16	# BR(hh_2 -> Chi_1 Chi_3)
4.63679715E-12	2		12	1000022	# BR(hh_2 -> Chi_1 Chi_4)
1.66214184E-12	2		12	1000023	# BR(hh_2 -> Chi_1 Chi_5)
5.39385109E-23	2		14	14	# BR(hh_2 -> Chi_2 Chi_2)
2.89812241E-24	2		14	16	# BR(hh_2 -> Chi_2 Chi_3)
1.41916649E-10	2		14	1000022	# BR(hh_2 -> Chi_2 Chi_4)
5.22274749E-11	2		14	1000023	# BR(hh_2 -> Chi_2 Chi_5)
1.93855121E-22	2		16	16	# BR(hh_2 -> Chi_3 Chi_3)
8.95843472E-11	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
3.43717539E-11	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
3.94813818E-07	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
1.42010888E-04	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
3.79930540E-01	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
1.52167105E-07	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
3.61402772E-02	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
DECAY	1000012	2.21333679E-03	#	hh_3	
#	BR	NDA	ID1	ID2	
3.00408208E-03	2		22	22	# BR(hh_3 -> VP VP)
1.14364129E-01	2		21	21	# BR(hh_3 -> VG VG)
2.78667929E-02	2		23	23	# BR(hh_3 -> VZ VZ)
2.58519755E-01	2		24	-24	# BR(hh_3 -> Vwm^* Vwm_virt)
6.31598581E-09	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
6.57912779E-26	2		-11	13	# BR(hh_3 -> Cha_1^* Cha_2)
4.59150358E-23	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3)
2.04771986E-13	2		-11	-1000024	# BR(hh_3 -> Cha_1^* Cha_4)
6.57912779E-26	2		-13	11	# BR(hh_3 -> Cha_2^* Cha_1)
2.82147859E-04	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
2.18987485E-22	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
1.28097783E-12	2		-13	-1000024	# BR(hh_3 -> Cha_2^* Cha_4)
4.59150358E-23	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1)
2.18987485E-22	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
8.14419508E-02	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
1.33304642E-11	2		-15	-1000024	# BR(hh_3 -> Cha_3^* Cha_4)
2.04771986E-13	2	1000024		11	# BR(hh_3 -> Cha_4^* Cha_1)
1.28097783E-12	2	1000024		13	# BR(hh_3 -> Cha_4^* Cha_2)
1.33304642E-11	2	1000024		15	# BR(hh_3 -> Cha_4^* Cha_3)
9.34400920E-25	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
2.26741411E-27	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
4.56819781E-28	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
1.22250020E-13	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
5.86633534E-14	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
1.53999263E-23	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
3.65973905E-26	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
9.01080350E-16	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
1.09023661E-18	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
2.21800485E-22	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
2.36029834E-12	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
8.36284410E-13	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)
5.10053774E-07	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1)
1.83461639E-04	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2)
4.90898157E-01	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3)
9.86875503E-08	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1)
2.34389083E-02	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2)
DECAY	1000014	9.68631539E-04	#	hh_4	
#	BR	NDA	ID1	ID2	
2.64250963E-03	2		22	22	# BR(hh_4 -> VP VP)
1.03058062E-01	2		21	21	# BR(hh_4 -> VG VG)
2.74725357E-02	2		23	23	# BR(hh_4 -> VZ VZ)
2.49795357E-01	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt)
6.57272989E-09	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
3.45902195E-27	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
1.00716313E-22	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
3.92000402E-14	2		-11	-1000024	# BR(hh_4 -> Cha_1^* Cha_4)
3.45902195E-27	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)
2.93617152E-04	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2)

4.78612693E-22	2	-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
3.16205925E-14	2	-13	-1000024	# BR(hh_4 -> Cha_2^* Cha_4)
1.00716313E-22	2	-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
4.78612693E-22	2	-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
8.47537967E-02	2	-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
1.69612107E-11	2	-15	-1000024	# BR(hh_4 -> Cha_3^* Cha_4)
3.92000402E-14	2	1000024	11	# BR(hh_4 -> Cha_4^* Cha_1)
3.16205925E-14	2	1000024	13	# BR(hh_4 -> Cha_4^* Cha_2)
1.69612107E-11	2	1000024	15	# BR(hh_4 -> Cha_4^* Cha_3)
7.60606514E-25	2	12	12	# BR(hh_4 -> Chi_1 Chi_1)
2.86051617E-26	2	12	14	# BR(hh_4 -> Chi_1 Chi_2)
4.92986689E-25	2	12	16	# BR(hh_4 -> Chi_1 Chi_3)
8.37489148E-13	2	12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
3.69559021E-13	2	12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
1.55337070E-23	2	14	14	# BR(hh_4 -> Chi_2 Chi_2)
1.54416174E-24	2	14	16	# BR(hh_4 -> Chi_2 Chi_3)
4.84202327E-13	2	14	1000022	# BR(hh_4 -> Chi_2 Chi_4)
1.98321663E-13	2	14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
2.33344971E-22	2	16	16	# BR(hh_4 -> Chi_3 Chi_3)
2.86668917E-13	2	16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
6.13244189E-14	2	16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
5.30787400E-07	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.90919334E-04	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
5.10877194E-01	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
8.80621814E-08	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
2.09153837E-02	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
DECAY	1000016	1.00324769E+00	# hh_5	
#	BR	NDA	ID1	ID2
2.80816775E-16	2	22	22	# BR(hh_5 -> VP VP)
3.03667255E-13	2	21	21	# BR(hh_5 -> VG VG)
2.25261667E-17	2	36	36	# BR(hh_5 -> Ah_2 Ah_2)
5.38892426E-17	2	36	1000017	# BR(hh_5 -> Ah_2 Ah_3)
4.18279908E-18	2	36	1000018	# BR(hh_5 -> Ah_2 Ah_4)
5.11330292E-17	2	1000017	1000017	# BR(hh_5 -> Ah_3 Ah_3)
7.59078899E-18	2	1000017	1000018	# BR(hh_5 -> Ah_3 Ah_4)
4.69144831E-19	2	1000018	1000018	# BR(hh_5 -> Ah_4 Ah_4)
5.53441526E-13	2	36	23	# BR(hh_5 -> Ah_2 VZ)
1.03723014E-12	2	1000017	23	# BR(hh_5 -> Ah_3 VZ)
7.69058846E-14	2	1000018	23	# BR(hh_5 -> Ah_4 VZ)
5.34924098E-22	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
6.27204643E-12	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
3.49608749E-22	2	-11	-1000024	# BR(hh_5 -> Cha_1^* Cha_4)
2.38962352E-17	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
2.52937878E-11	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
2.15069330E-21	2	-13	-1000024	# BR(hh_5 -> Cha_2^* Cha_4)
6.27204643E-12	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
2.52937878E-11	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
1.68003837E-12	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
4.95136802E-01	2	-15	-1000024	# BR(hh_5 -> Cha_3^* Cha_4)
3.49608749E-22	2	1000024	11	# BR(hh_5 -> Cha_4^* Cha_1)
2.15069330E-21	2	1000024	13	# BR(hh_5 -> Cha_4^* Cha_2)
4.95136802E-01	2	1000024	15	# BR(hh_5 -> Cha_4^* Cha_3)
1.47701171E-12	2	1000024	-1000024	# BR(hh_5 -> Cha_4^* Cha_4)
1.36627790E-17	2	12	12	# BR(hh_5 -> Chi_1 Chi_1)
1.57729761E-15	2	12	14	# BR(hh_5 -> Chi_1 Chi_2)
2.39204775E-14	2	12	16	# BR(hh_5 -> Chi_1 Chi_3)
1.41508451E-03	2	12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
9.50600489E-04	2	12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
7.86968816E-06	2	12	1000025	# BR(hh_5 -> Chi_1 Chi_6)
7.98381254E-06	2	12	1000039	# BR(hh_5 -> Chi_1 Chi_7)
8.40540717E-06	2	12	1000045	# BR(hh_5 -> Chi_1 Chi_8)
3.99353102E-15	2	14	14	# BR(hh_5 -> Chi_2 Chi_2)
5.33780911E-14	2	14	16	# BR(hh_5 -> Chi_2 Chi_3)
2.11895838E-03	2	14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
1.42343645E-03	2	14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
1.17841313E-05	2	14	1000025	# BR(hh_5 -> Chi_2 Chi_6)
1.19550220E-05	2	14	1000039	# BR(hh_5 -> Chi_2 Chi_7)
1.25863211E-05	2	14	1000045	# BR(hh_5 -> Chi_2 Chi_8)
7.20666355E-14	2	16	16	# BR(hh_5 -> Chi_3 Chi_3)
2.22495033E-03	2	16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
1.49463785E-03	2	16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
1.23735827E-05	2	16	1000025	# BR(hh_5 -> Chi_3 Chi_6)
1.25530215E-05	2	16	1000039	# BR(hh_5 -> Chi_3 Chi_7)

1.32158986E-05	2	16	1000045	# BR(hh_5 -> Chi_3 Chi_8)
6.73274245E-14	2	1000022	1000022	# BR(hh_5 -> Chi_4 Chi_4)
4.08643449E-14	2	1000022	1000023	# BR(hh_5 -> Chi_4 Chi_5)
3.07324702E-15	2	1000022	1000025	# BR(hh_5 -> Chi_4 Chi_6)
4.82628722E-15	2	1000022	1000039	# BR(hh_5 -> Chi_4 Chi_7)
4.56776262E-16	2	1000022	1000045	# BR(hh_5 -> Chi_4 Chi_8)
9.61681589E-15	2	1000023	1000023	# BR(hh_5 -> Chi_5 Chi_5)
1.08237975E-14	2	1000023	1000025	# BR(hh_5 -> Chi_5 Chi_6)
1.22598109E-14	2	1000023	1000039	# BR(hh_5 -> Chi_5 Chi_7)
5.78563325E-14	2	1000023	1000045	# BR(hh_5 -> Chi_5 Chi_8)
7.92517897E-17	2	1000025	1000025	# BR(hh_5 -> Chi_6 Chi_6)
1.92610810E-16	2	1000025	1000039	# BR(hh_5 -> Chi_6 Chi_7)
3.98463206E-17	2	1000025	1000045	# BR(hh_5 -> Chi_6 Chi_8)
1.20085085E-16	2	1000039	1000039	# BR(hh_5 -> Chi_7 Chi_7)
3.32469781E-17	2	1000039	1000045	# BR(hh_5 -> Chi_7 Chi_8)
9.44736194E-16	2	1000045	1000045	# BR(hh_5 -> Chi_8 Chi_8)
4.31983315E-20	2	-1	1	# BR(hh_5 -> Fd_1^* Fd_1)
1.55380445E-17	2	-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
4.17151873E-14	2	-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
7.88690329E-21	2	-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
1.87359995E-15	2	-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
6.37861144E-11	2	-6	6	# BR(hh_5 -> Fu_3^* Fu_3)
4.74702018E-17	2	25	25	# BR(hh_5 -> hh_1 hh_1)
4.84283940E-16	2	25	35	# BR(hh_5 -> hh_1 hh_2)
1.36568713E-14	2	25	1000012	# BR(hh_5 -> hh_1 hh_3)
2.01031708E-14	2	25	1000014	# BR(hh_5 -> hh_1 hh_4)
1.21103614E-15	2	35	35	# BR(hh_5 -> hh_2 hh_2)
6.84625548E-14	2	35	1000012	# BR(hh_5 -> hh_2 hh_3)
1.01935366E-13	2	35	1000014	# BR(hh_5 -> hh_2 hh_4)
5.20925805E-13	2	1000012	1000012	# BR(hh_5 -> hh_3 hh_3)
3.54589657E-12	2	1000012	1000014	# BR(hh_5 -> hh_3 hh_4)
1.96472329E-12	2	1000014	1000014	# BR(hh_5 -> hh_4 hh_4)
2.91256708E-12	2	-24	24	# BR(hh_5 -> VVWm VVWm^*)
1.39594870E-12	2	23	23	# BR(hh_5 -> VZ VZ)
DECAY	2000012	1.52978816E-01	# hh_6	
#	BR	NDA	ID1	ID2
2.28316325E-15	2	22	22	# BR(hh_6 -> VP VP)
1.60495813E-12	2	21	21	# BR(hh_6 -> VG VG)
2.34533839E-16	2	36	36	# BR(hh_6 -> Ah_2 Ah_2)
3.59599354E-16	2	36	1000017	# BR(hh_6 -> Ah_2 Ah_3)
3.72377419E-16	2	36	1000018	# BR(hh_6 -> Ah_2 Ah_4)
5.58918247E-23	2	36	1000019	# BR(hh_6 -> Ah_2 Ah_5)
1.72681819E-16	2	1000017	1000017	# BR(hh_6 -> Ah_3 Ah_3)
3.49161909E-16	2	1000017	1000018	# BR(hh_6 -> Ah_3 Ah_4)
1.74331467E-22	2	1000017	1000019	# BR(hh_6 -> Ah_3 Ah_5)
1.84857279E-16	2	1000018	1000018	# BR(hh_6 -> Ah_4 Ah_4)
8.03796806E-23	2	1000018	1000019	# BR(hh_6 -> Ah_4 Ah_5)
2.73711291E-13	2	1000019	1000019	# BR(hh_6 -> Ah_5 Ah_5)
2.27418046E-11	2	36	23	# BR(hh_6 -> Ah_2 VZ)
2.29130845E-11	2	1000017	23	# BR(hh_6 -> Ah_3 VZ)
2.26569521E-11	2	1000018	23	# BR(hh_6 -> Ah_4 VZ)
5.89715353E-23	2	1000019	23	# BR(hh_6 -> Ah_5 VZ)
2.98651463E-21	2	-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
3.01291553E-13	2	-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
7.72970124E-29	2	-11	15	# BR(hh_6 -> Cha_1^* Cha_3)
3.72300352E-21	2	-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
3.01291553E-13	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
2.55621957E-12	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
2.03992877E-13	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
1.40139765E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
7.72970124E-29	2	-15	11	# BR(hh_6 -> Cha_3^* Cha_1)
2.03992877E-13	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
3.85560290E-14	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
6.36281479E-18	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
3.72300352E-21	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1)
1.40139765E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2)
6.36281479E-18	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3)
1.07099278E-11	2	1000024	-1000024	# BR(hh_6 -> Cha_4^* Cha_4)
5.33225454E-17	2	12	12	# BR(hh_6 -> Chi_1 Chi_1)
6.96941952E-15	2	12	14	# BR(hh_6 -> Chi_1 Chi_2)
8.05881367E-14	2	12	16	# BR(hh_6 -> Chi_1 Chi_3)
5.95777827E-03	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
4.04368386E-03	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5)

3.45046265E-05	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
3.51781281E-05	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
3.72235076E-05	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
3.96089177E-02	2	12	1000055	# BR(hh_6 -> Chi_1 Chi_9)
5.02256783E-14	2	14	14	# BR(hh_6 -> Chi_2 Chi_2)
1.97825810E-13	2	14	16	# BR(hh_6 -> Chi_2 Chi_3)
2.87489047E-02	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
1.95125560E-02	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
1.66500023E-04	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
1.69749965E-04	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
1.79619822E-04	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
1.91130477E-01	2	14	1000055	# BR(hh_6 -> Chi_2 Chi_9)
1.54748160E-12	2	16	16	# BR(hh_6 -> Chi_3 Chi_3)
5.15396772E-02	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
3.49811879E-02	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
2.98493370E-04	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
3.04319712E-04	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
3.22013925E-04	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
3.42649683E-01	2	16	1000055	# BR(hh_6 -> Chi_3 Chi_9)
4.77451945E-12	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4)
8.60120641E-15	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5)
7.75681999E-14	2	1000022	1000025	# BR(hh_6 -> Chi_4 Chi_6)
1.00222174E-11	2	1000022	1000039	# BR(hh_6 -> Chi_4 Chi_7)
4.00894810E-14	2	1000022	1000045	# BR(hh_6 -> Chi_4 Chi_8)
4.13967513E-12	2	1000022	1000055	# BR(hh_6 -> Chi_4 Chi_9)
1.27198364E-12	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5)
1.54237191E-15	2	1000023	1000025	# BR(hh_6 -> Chi_5 Chi_6)
1.32510667E-11	2	1000023	1000039	# BR(hh_6 -> Chi_5 Chi_7)
3.52669389E-13	2	1000023	1000045	# BR(hh_6 -> Chi_5 Chi_8)
7.89143730E-12	2	1000023	1000055	# BR(hh_6 -> Chi_5 Chi_9)
2.28642466E-15	2	1000025	1000025	# BR(hh_6 -> Chi_6 Chi_6)
3.92106391E-14	2	1000025	1000039	# BR(hh_6 -> Chi_6 Chi_7)
1.13564459E-15	2	1000025	1000045	# BR(hh_6 -> Chi_6 Chi_8)
3.40500180E-15	2	1000025	1000055	# BR(hh_6 -> Chi_6 Chi_9)
5.13073679E-14	2	1000039	1000039	# BR(hh_6 -> Chi_7 Chi_7)
4.73257007E-14	2	1000039	1000045	# BR(hh_6 -> Chi_7 Chi_8)
1.32914792E-14	2	1000039	1000055	# BR(hh_6 -> Chi_7 Chi_9)
1.66860281E-18	2	1000045	1000045	# BR(hh_6 -> Chi_8 Chi_8)
2.58506734E-15	2	1000045	1000055	# BR(hh_6 -> Chi_8 Chi_9)
2.41178991E-19	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
8.67498688E-17	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
2.32928298E-13	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
4.92882110E-20	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
1.17089105E-14	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
8.13603119E-10	2	-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
1.37715368E-15	2	25	25	# BR(hh_6 -> hh_1 hh_1)
7.12022650E-14	2	25	35	# BR(hh_6 -> hh_1 hh_2)
3.33243361E-13	2	25	1000012	# BR(hh_6 -> hh_1 hh_3)
1.48639482E-13	2	25	1000014	# BR(hh_6 -> hh_1 hh_4)
3.61854961E-24	2	25	1000016	# BR(hh_6 -> hh_1 hh_5)
1.11319427E-12	2	35	35	# BR(hh_6 -> hh_2 hh_2)
3.43941202E-11	2	35	1000012	# BR(hh_6 -> hh_2 hh_3)
1.29202195E-11	2	35	1000014	# BR(hh_6 -> hh_2 hh_4)
2.35930009E-22	2	35	1000016	# BR(hh_6 -> hh_2 hh_5)
5.70562421E-12	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3)
6.72373101E-12	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4)
1.15045979E-22	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5)
1.84360195E-12	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4)
1.61024444E-22	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5)
2.73711302E-13	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5)
1.41915765E-13	2	-37	37	# BR(hh_6 -> Hpm_2^* Hpm_2)
9.32172251E-16	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
9.32172251E-16	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
1.04198901E-11	2	-24	24	# BR(hh_6 -> Vwm Vwm^*)
5.17657757E-12	2	23	23	# BR(hh_6 -> VZ VZ)
DECAY	2000014	1.19750964E+00	#	hh_7
#	BR	NDA	ID1	ID2
4.75396634E-17	2	22	22	# BR(hh_7 -> VP VP)
3.34154442E-14	2	21	21	# BR(hh_7 -> VG VG)
4.18654841E-18	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
7.55242836E-19	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)
1.11990755E-17	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
6.98364963E-24	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)

1.11723616E-24	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
4.66462254E-20	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)
1.18148211E-18	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)
2.04086775E-24	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)
2.29393571E-26	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6)
8.87064452E-18	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)
1.67234859E-23	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)
1.15535051E-23	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)
7.32498049E-15	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)
1.68723119E-12	2	36	23	# BR(hh_7 -> Ah_2 VZ)
2.18950994E-13	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
3.14877308E-12	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
5.40714134E-25	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
2.51150400E-25	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
2.93724376E-18	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
8.99848626E-17	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
3.70834366E-14	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
2.43345707E-02	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
8.99848626E-17	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
4.98193153E-18	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
1.04156825E-21	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
3.70834366E-14	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
1.43976878E-15	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)
1.59914844E-21	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
2.43345707E-02	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
1.04156825E-21	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
1.59914844E-21	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)
5.70804895E-13	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)
1.10595470E-16	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)
9.79793835E-15	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)
1.84529157E-13	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)
1.25230301E-02	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)
8.51473069E-03	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)
7.30298497E-05	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)
7.45170367E-05	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
7.89165038E-05	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
6.30591534E-01	2	12	1000055	# BR(hh_7 -> Chi_1 Chi_9)
9.41171570E-15	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)
9.01783713E-14	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)
5.45962626E-03	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
3.71214051E-03	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
3.18385952E-05	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
3.24869595E-05	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
3.44049814E-05	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
2.74917020E-01	2	14	1000055	# BR(hh_7 -> Chi_2 Chi_9)
8.70125530E-15	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)
2.93695121E-04	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
1.99690877E-04	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
1.71272531E-06	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
1.74760342E-06	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
1.85078148E-06	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
1.47888855E-02	2	16	1000055	# BR(hh_7 -> Chi_3 Chi_9)
2.16534941E-13	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
4.18736921E-16	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)
5.81156766E-13	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)
4.06563842E-15	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)
1.04164121E-15	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)
6.90375937E-12	2	1000022	1000055	# BR(hh_7 -> Chi_4 Chi_9)
8.47377752E-14	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)
6.69646904E-13	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)
1.13423608E-14	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)
7.30381102E-15	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)
3.85917602E-12	2	1000023	1000055	# BR(hh_7 -> Chi_5 Chi_9)
3.76252547E-15	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6)
3.02390716E-15	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7)
2.98343204E-15	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8)
1.27524603E-13	2	1000025	1000055	# BR(hh_7 -> Chi_6 Chi_9)
7.61822908E-18	2	1000039	1000039	# BR(hh_7 -> Chi_7 Chi_7)
1.94146956E-18	2	1000039	1000045	# BR(hh_7 -> Chi_7 Chi_8)
3.15602928E-14	2	1000039	1000055	# BR(hh_7 -> Chi_7 Chi_9)
8.66764263E-19	2	1000045	1000045	# BR(hh_7 -> Chi_8 Chi_8)
2.97333757E-14	2	1000045	1000055	# BR(hh_7 -> Chi_8 Chi_9)
9.00606705E-21	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)

3.23939929E-18	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)
8.69812614E-15	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)
1.39511718E-21	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)
3.31424100E-16	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)
2.50658312E-11	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)
1.92634579E-14	2	25	25	# BR(hh_7 -> hh_1 hh_1)
5.07393202E-14	2	25	35	# BR(hh_7 -> hh_1 hh_2)
3.20607555E-12	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)
1.23516428E-12	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)
2.74555643E-23	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)
9.24310639E-24	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)
2.46765220E-16	2	35	35	# BR(hh_7 -> hh_2 hh_2)
4.60968207E-15	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)
1.07446711E-15	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)
1.50281891E-26	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)
1.94154366E-24	2	35	2000012	# BR(hh_7 -> hh_2 hh_6)
7.04246204E-14	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)
9.74200399E-14	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)
1.55089477E-24	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)
8.19637004E-25	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)
2.95958301E-14	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)
2.39120995E-24	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)
6.42183428E-25	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)
7.32498051E-15	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)
4.31411841E-15	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)
1.12323565E-21	2	-37	1000011	# BR(hh_7 -> Hpm_2^* Hpm_3)
1.04706804E-15	2	-37	1000013	# BR(hh_7 -> Hpm_2^* Hpm_5)
1.12323565E-21	2	-1000011	37	# BR(hh_7 -> Hpm_3^* Hpm_2)
1.04706804E-15	2	-1000013	37	# BR(hh_7 -> Hpm_5^* Hpm_2)
2.64281784E-25	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^*)
2.64281784E-25	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)
3.09041843E-10	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^*)
3.09041843E-10	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm)
6.12306825E-29	2	2000011	24	# BR(hh_7 -> Hpm_4 Vwm^*)
6.12306825E-29	2	-2000011	-24	# BR(hh_7 -> Hpm_4^* Vwm)
8.76032616E-27	2	1000013	24	# BR(hh_7 -> Hpm_5 Vwm^*)
8.76032616E-27	2	-1000013	-24	# BR(hh_7 -> Hpm_5^* Vwm)
2.93747813E-26	2	2000013	24	# BR(hh_7 -> Hpm_6 Vwm^*)
2.93747813E-26	2	-2000013	-24	# BR(hh_7 -> Hpm_6^* Vwm)
2.80981942E-13	2	-24	24	# BR(hh_7 -> Vwm Vwm^*)
1.40504945E-13	2	23	23	# BR(hh_7 -> VZ VZ)
DECAY	2000016	7.69002087E+01	# hh_8	
#	BR	NDA	ID1	ID2
5.48457385E-09	2	22	22	# BR(hh_8 -> VP VP)
9.38536813E-07	2	21	21	# BR(hh_8 -> VG VG)
1.01564576E-09	2	36	36	# BR(hh_8 -> Ah_2 Ah_2)
1.24400031E-16	2	36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
5.41097910E-13	2	36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
1.96808593E-15	2	36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
7.97083451E-16	2	36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
5.78426825E-17	2	36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
1.14804657E-09	2	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
1.46068484E-17	2	1000017	1000018	# BR(hh_8 -> Ah_3 Ah_4)
5.14496597E-19	2	1000017	1000019	# BR(hh_8 -> Ah_3 Ah_5)
1.17322823E-18	2	1000017	2000018	# BR(hh_8 -> Ah_3 Ah_6)
1.33652877E-19	2	1000017	2000019	# BR(hh_8 -> Ah_3 Ah_7)
1.09873471E-09	2	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
3.49748248E-20	2	1000018	1000019	# BR(hh_8 -> Ah_4 Ah_5)
1.17892159E-18	2	1000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
1.91438989E-18	2	1000018	2000019	# BR(hh_8 -> Ah_4 Ah_7)
1.65903788E-07	2	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
8.77579789E-30	2	1000019	2000018	# BR(hh_8 -> Ah_5 Ah_6)
1.35072861E-07	2	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
3.77497620E-04	2	36	23	# BR(hh_8 -> Ah_2 VZ)
2.23039751E-11	2	1000017	23	# BR(hh_8 -> Ah_3 VZ)
2.46414735E-11	2	1000018	23	# BR(hh_8 -> Ah_4 VZ)
3.66218967E-19	2	1000019	23	# BR(hh_8 -> Ah_5 VZ)
2.54249599E-19	2	2000018	23	# BR(hh_8 -> Ah_6 VZ)
8.73939687E-20	2	2000019	23	# BR(hh_8 -> Ah_7 VZ)
7.35858747E-09	2	-11	11	# BR(hh_8 -> Cha_1^* Cha_1)
5.49512748E-24	2	-11	13	# BR(hh_8 -> Cha_1^* Cha_2)
2.98875545E-21	2	-11	15	# BR(hh_8 -> Cha_1^* Cha_3)
8.47040082E-15	2	-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)

1.07069638E-12	2	-11	-1000037	# BR(hh_8 -> Cha_1^* Cha_5)
5.49512748E-24	2	-13	11	# BR(hh_8 -> Cha_2^* Cha_1)
3.28724395E-04	2	-13	13	# BR(hh_8 -> Cha_2^* Cha_2)
1.20533836E-20	2	-13	15	# BR(hh_8 -> Cha_2^* Cha_3)
4.21861241E-14	2	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)
4.31011106E-12	2	-13	-1000037	# BR(hh_8 -> Cha_2^* Cha_5)
2.98875545E-21	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
1.20533836E-20	2	-15	13	# BR(hh_8 -> Cha_3^* Cha_2)
9.50011871E-02	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
1.51086950E-13	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
9.48245130E-14	2	-15	-1000037	# BR(hh_8 -> Cha_3^* Cha_5)
8.47040082E-15	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
4.21861241E-14	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
1.51086950E-13	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
1.46929812E-03	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
9.22937152E-02	2	1000024	-1000037	# BR(hh_8 -> Cha_4^* Cha_5)
1.07069638E-12	2	1000037	11	# BR(hh_8 -> Cha_5^* Cha_1)
4.31011106E-12	2	1000037	13	# BR(hh_8 -> Cha_5^* Cha_2)
9.48245130E-14	2	1000037	15	# BR(hh_8 -> Cha_5^* Cha_3)
9.22937152E-02	2	1000037	-1000024	# BR(hh_8 -> Cha_5^* Cha_4)
1.03666666E-28	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
8.73861431E-27	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
1.35240376E-25	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
9.51273121E-15	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
6.79537633E-15	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
2.55036888E-17	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
4.14865336E-17	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
1.12499068E-16	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
7.96019418E-13	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
1.62063943E-12	2	12	1000065	# BR(hh_8 -> Chi_1 Chi_10)
2.42523077E-27	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
7.44079303E-29	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
4.09166271E-16	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
1.99873446E-15	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
3.14853560E-17	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
1.77194997E-17	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
7.15347407E-18	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
1.01449496E-13	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
2.06428896E-13	2	14	1000065	# BR(hh_8 -> Chi_2 Chi_10)
6.64799714E-25	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
4.51109005E-14	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
3.49470421E-15	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)
4.21211121E-16	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
1.56500200E-16	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
4.27127901E-16	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
1.86123109E-12	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
3.79144956E-12	2	16	1000065	# BR(hh_8 -> Chi_3 Chi_10)
3.29939083E-04	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
4.20165231E-05	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
1.87254133E-04	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
2.31152067E-04	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
2.92146262E-04	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
2.09730061E-02	2	1000022	1000055	# BR(hh_8 -> Chi_4 Chi_9)
4.12807554E-02	2	1000022	1000065	# BR(hh_8 -> Chi_4 Chi_10)
3.70937661E-04	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
1.19159396E-04	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
1.53056985E-04	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
1.99950682E-04	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
2.40363451E-02	2	1000023	1000055	# BR(hh_8 -> Chi_5 Chi_9)
5.03504036E-02	2	1000023	1000065	# BR(hh_8 -> Chi_5 Chi_10)
1.96373960E-06	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
4.15584471E-06	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
4.86464705E-06	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
1.61121253E-04	2	1000025	1000055	# BR(hh_8 -> Chi_6 Chi_9)
3.32524761E-04	2	1000025	1000065	# BR(hh_8 -> Chi_6 Chi_10)
2.48546716E-06	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
5.44848974E-06	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
1.68654697E-04	2	1000039	1000055	# BR(hh_8 -> Chi_7 Chi_9)
3.49714168E-04	2	1000039	1000065	# BR(hh_8 -> Chi_7 Chi_10)
3.33224720E-06	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
1.83120519E-04	2	1000045	1000055	# BR(hh_8 -> Chi_8 Chi_9)
3.81484532E-04	2	1000045	1000065	# BR(hh_8 -> Chi_8 Chi_10)
2.23754849E-06	2	1000055	1000055	# BR(hh_8 -> Chi_9 Chi_9)

1.93730647E-06	2	1000055	1000065	# BR(hh_8 -> Chi_9 Chi_10)
5.94250399E-07	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
2.13746324E-04	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
5.73934715E-01	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
9.98683855E-14	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
2.37247539E-08	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
1.85261026E-03	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
4.67329408E-07	2	25	25	# BR(hh_8 -> hh_1 hh_1)
2.93874177E-06	2	25	35	# BR(hh_8 -> hh_1 hh_2)
9.35860962E-05	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
2.79464478E-05	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
7.69139076E-16	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
2.51097142E-16	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
4.08231016E-17	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
3.05689424E-06	2	35	35	# BR(hh_8 -> hh_2 hh_2)
1.17517025E-04	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
2.57756436E-05	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
8.91104743E-16	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
2.07333322E-16	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
2.87728594E-17	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
3.56736276E-05	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
7.02706962E-05	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
4.09553342E-17	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
9.12071246E-18	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)
5.26137986E-19	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
9.51908986E-05	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
1.42605288E-15	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
4.40162806E-16	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
4.68850920E-17	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
1.65903788E-07	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
4.83096718E-28	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
5.32665271E-29	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
1.35072861E-07	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
1.72179687E-29	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7)
1.07075796E-09	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
3.47057450E-29	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4)
5.83581431E-05	2	-37	1000013	# BR(hh_8 -> Hpm_2^* Hpm_5)
5.68887216E-29	2	-37	2000013	# BR(hh_8 -> Hpm_2^* Hpm_6)
1.94493775E-30	2	-37	1000015	# BR(hh_8 -> Hpm_2^* Hpm_7)
5.58537068E-08	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)
2.08285436E-15	2	-1000011	1000015	# BR(hh_8 -> Hpm_3^* Hpm_7)
3.47057450E-29	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2)
5.54505751E-08	2	-2000011	2000011	# BR(hh_8 -> Hpm_4^* Hpm_4)
1.23623607E-10	2	-2000011	2000013	# BR(hh_8 -> Hpm_4^* Hpm_6)
1.73103082E-30	2	-2000011	1000015	# BR(hh_8 -> Hpm_4^* Hpm_7)
5.83581431E-05	2	-1000013	37	# BR(hh_8 -> Hpm_5^* Hpm_2)
1.94565883E-08	2	-1000013	1000013	# BR(hh_8 -> Hpm_5^* Hpm_5)
3.94386403E-30	2	-1000013	1000015	# BR(hh_8 -> Hpm_5^* Hpm_7)
5.68887216E-29	2	-2000013	37	# BR(hh_8 -> Hpm_6^* Hpm_2)
1.23623607E-10	2	-2000013	2000011	# BR(hh_8 -> Hpm_6^* Hpm_4)
8.11181627E-08	2	-2000013	2000013	# BR(hh_8 -> Hpm_6^* Hpm_6)
1.94493775E-30	2	-1000015	37	# BR(hh_8 -> Hpm_7^* Hpm_2)
2.08285436E-15	2	-1000015	1000011	# BR(hh_8 -> Hpm_7^* Hpm_3)
1.73103082E-30	2	-1000015	2000011	# BR(hh_8 -> Hpm_7^* Hpm_4)
3.94386403E-30	2	-1000015	1000013	# BR(hh_8 -> Hpm_7^* Hpm_5)
5.99307053E-18	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
5.99307053E-18	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
3.70546888E-23	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
3.70546888E-23	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
6.56959177E-18	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
6.56959177E-18	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
4.30006719E-16	2	1000013	24	# BR(hh_8 -> Hpm_5 Vwm^*)
4.30006719E-16	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* Vwm)
3.64644345E-18	2	2000013	24	# BR(hh_8 -> Hpm_6 Vwm^*)
3.64644345E-18	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* Vwm)
1.3222801E-18	2	1000015	24	# BR(hh_8 -> Hpm_7 Vwm^*)
1.3222801E-18	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* Vwm)
6.76985487E-07	2	-1000001	1000001	# BR(hh_8 -> Sd_1^* Sd_1)
7.28341706E-04	2	-1000001	2000005	# BR(hh_8 -> Sd_1^* Sd_6)
1.88559225E-08	2	-1000003	1000003	# BR(hh_8 -> Sd_2^* Sd_2)
7.18745565E-10	2	-1000003	2000003	# BR(hh_8 -> Sd_2^* Sd_5)
1.86474337E-08	2	-1000005	1000005	# BR(hh_8 -> Sd_3^* Sd_3)
2.02346394E-12	2	-1000005	2000001	# BR(hh_8 -> Sd_3^* Sd_4)

2.02346394E-12	2	-2000001	1000005	# BR(hh_8 -> Sd_4^* Sd_3)
5.97372839E-07	2	-2000001	2000001	# BR(hh_8 -> Sd_4^* Sd_4)
7.18745565E-10	2	-2000003	1000003	# BR(hh_8 -> Sd_5^* Sd_2)
5.95441667E-07	2	-2000003	2000003	# BR(hh_8 -> Sd_5^* Sd_5)
7.28341706E-04	2	-2000005	1000001	# BR(hh_8 -> Sd_6^* Sd_1)
4.77960294E-08	2	-2000005	2000005	# BR(hh_8 -> Sd_6^* Sd_6)
4.05746729E-07	2	-1000002	1000002	# BR(hh_8 -> Su_1^* Su_1)
2.91519431E-16	2	-1000002	1000004	# BR(hh_8 -> Su_1^* Su_2)
4.03909988E-14	2	-1000002	1000006	# BR(hh_8 -> Su_1^* Su_3)
6.53805230E-11	2	-1000002	2000002	# BR(hh_8 -> Su_1^* Su_4)
2.32791869E-13	2	-1000002	2000004	# BR(hh_8 -> Su_1^* Su_5)
1.38341077E-13	2	-1000002	2000006	# BR(hh_8 -> Su_1^* Su_6)
2.91519431E-16	2	-1000004	1000002	# BR(hh_8 -> Su_2^* Su_1)
4.01072776E-07	2	-1000004	1000004	# BR(hh_8 -> Su_2^* Su_2)
2.74704038E-16	2	-1000004	1000006	# BR(hh_8 -> Su_2^* Su_3)
9.58010309E-09	2	-1000004	2000002	# BR(hh_8 -> Su_2^* Su_4)
6.19710966E-07	2	-1000004	2000004	# BR(hh_8 -> Su_2^* Su_5)
3.69206106E-07	2	-1000004	2000006	# BR(hh_8 -> Su_2^* Su_6)
4.03909988E-14	2	-1000006	1000002	# BR(hh_8 -> Su_3^* Su_1)
2.74704038E-16	2	-1000006	1000004	# BR(hh_8 -> Su_3^* Su_2)
7.46267862E-08	2	-1000006	1000006	# BR(hh_8 -> Su_3^* Su_3)
4.58054577E-25	2	-1000006	2000002	# BR(hh_8 -> Su_3^* Su_4)
3.32185175E-19	2	-1000006	2000004	# BR(hh_8 -> Su_3^* Su_5)
8.23453937E-20	2	-1000006	2000006	# BR(hh_8 -> Su_3^* Su_6)
6.53805230E-11	2	-2000002	1000002	# BR(hh_8 -> Su_4^* Su_1)
9.58010309E-09	2	-2000002	1000004	# BR(hh_8 -> Su_4^* Su_2)
4.58054577E-25	2	-2000002	1000006	# BR(hh_8 -> Su_4^* Su_3)
7.47243052E-08	2	-2000002	2000002	# BR(hh_8 -> Su_4^* Su_4)
1.14133808E-11	2	-2000002	2000004	# BR(hh_8 -> Su_4^* Su_5)
2.82928431E-12	2	-2000002	2000006	# BR(hh_8 -> Su_4^* Su_6)
2.32791869E-13	2	-2000004	1000002	# BR(hh_8 -> Su_5^* Su_1)
6.19710966E-07	2	-2000004	1000004	# BR(hh_8 -> Su_5^* Su_2)
3.32185175E-19	2	-2000004	1000006	# BR(hh_8 -> Su_5^* Su_3)
1.14133808E-11	2	-2000004	2000002	# BR(hh_8 -> Su_5^* Su_4)
1.14305662E-05	2	-2000004	2000004	# BR(hh_8 -> Su_5^* Su_5)
9.95078366E-09	2	-2000004	2000006	# BR(hh_8 -> Su_5^* Su_6)
1.38341077E-13	2	-2000006	1000002	# BR(hh_8 -> Su_6^* Su_1)
3.69206106E-07	2	-2000006	1000004	# BR(hh_8 -> Su_6^* Su_2)
8.23453937E-20	2	-2000006	1000006	# BR(hh_8 -> Su_6^* Su_3)
2.82928431E-12	2	-2000006	2000002	# BR(hh_8 -> Su_6^* Su_4)
9.95078366E-09	2	-2000006	2000004	# BR(hh_8 -> Su_6^* Su_5)
7.00160350E-07	2	-24	24	# BR(hh_8 -> VVw VVw^*)
3.51116847E-07	2	23	23	# BR(hh_8 -> VZ VZ)

DECAY 36 3.35620494E-06 # Ah_2

#	BR	NDA	ID1	ID2	
3.31372652E-04	2		22	22	# BR(Ah_2 -> VP VP)
1.55912810E-04	2		21	21	# BR(Ah_2 -> VG VG)
1.10047830E-08	2		-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
2.54287191E-25	2		-11	13	# BR(Ah_2 -> Cha_1^* Cha_2)
1.00177724E-22	2		-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
2.54287191E-25	2		-13	11	# BR(Ah_2 -> Cha_2^* Cha_1)
4.91606632E-04	2		-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
4.06702769E-22	2		-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
1.00177724E-22	2		-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
4.06702769E-22	2		-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
1.41960822E-01	2		-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
4.18670886E-25	2		12	12	# BR(Ah_2 -> Chi_1 Chi_1)
2.56993182E-26	2		12	14	# BR(Ah_2 -> Chi_1 Chi_2)
5.87780794E-25	2		12	16	# BR(Ah_2 -> Chi_1 Chi_3)
1.53902780E-24	2		14	14	# BR(Ah_2 -> Chi_2 Chi_2)
7.41484114E-23	2		14	16	# BR(Ah_2 -> Chi_2 Chi_3)
2.40533530E-22	2		16	16	# BR(Ah_2 -> Chi_3 Chi_3)
8.88702295E-07	2		-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
3.19658113E-04	2		-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
8.56739554E-01	2		-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
7.33976357E-13	2		-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
1.74344734E-07	2		-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)

DECAY 1000017 5.31076072E-13 # Ah_3

#	BR	NDA	ID1	ID2	
3.20170730E-05	2		22	22	# BR(Ah_3 -> VP VP)
4.35210716E-01	2		21	21	# BR(Ah_3 -> VG VG)
5.46805128E-09	2		-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
2.83655542E-17	2		-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)

1.09429200E-13	2	-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
2.83655542E-17	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
2.44269279E-04	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
8.15361666E-13	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
1.09429200E-13	2	-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
8.15361666E-13	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
7.05363813E-02	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
2.32371046E-19	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
2.66492207E-17	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
6.28360386E-16	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
1.90543089E-16	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
7.05809820E-16	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
7.89192354E-17	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)
4.41577958E-07	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
1.58831566E-04	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
4.25679626E-01	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
2.86853415E-07	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
6.81374249E-02	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)
DECAY 1000018	4.82045737E-12	# Ah_4		
# BR	NDA	ID1	ID2	
1.15846078E-04	2	22	22	# BR(Ah_4 -> VP VP)
2.75817638E-01	2	21	21	# BR(Ah_4 -> VG VG)
7.50412195E-09	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
4.63105273E-17	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
1.15954402E-14	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
4.63105273E-17	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
3.35224757E-04	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
5.60884868E-15	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
1.15954402E-14	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
5.60884868E-15	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
9.68011392E-02	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
4.15617432E-20	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1)
1.66314152E-19	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2)
1.15799309E-17	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3)
2.90646379E-18	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2)
2.03949700E-18	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3)
7.05236191E-17	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3)
6.06002883E-07	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
2.17973712E-04	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
5.84184716E-01	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
1.79034067E-07	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
4.25266692E-02	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)
DECAY 1000019	1.00324770E+00	# Ah_5		
# BR	NDA	ID1	ID2	
1.02923652E-15	2	22	22	# BR(Ah_5 -> VP VP)
4.36733952E-13	2	21	21	# BR(Ah_5 -> VG VG)
1.28909636E-15	2	25	36	# BR(Ah_5 -> hh_1 Ah_2)
2.41596290E-15	2	25	1000017	# BR(Ah_5 -> hh_1 Ah_3)
1.78902447E-16	2	25	1000018	# BR(Ah_5 -> hh_1 Ah_4)
6.60779285E-15	2	35	36	# BR(Ah_5 -> hh_2 Ah_2)
1.23839866E-14	2	35	1000017	# BR(Ah_5 -> hh_2 Ah_3)
9.17102199E-16	2	35	1000018	# BR(Ah_5 -> hh_2 Ah_4)
4.27772205E-13	2	1000012	36	# BR(Ah_5 -> hh_3 Ah_2)
8.01449394E-13	2	1000012	1000017	# BR(Ah_5 -> hh_3 Ah_3)
5.93860582E-14	2	1000012	1000018	# BR(Ah_5 -> hh_3 Ah_4)
1.74533698E-13	2	1000014	36	# BR(Ah_5 -> hh_4 Ah_2)
3.27189457E-13	2	1000014	1000017	# BR(Ah_5 -> hh_4 Ah_3)
2.42185510E-14	2	1000014	1000018	# BR(Ah_5 -> hh_4 Ah_4)
4.31298210E-22	2	-11	11	# BR(Ah_5 -> Cha_1^* Cha_1)
6.27204642E-12	2	-11	15	# BR(Ah_5 -> Cha_1^* Cha_3)
6.19356014E-22	2	-11	-1000024	# BR(Ah_5 -> Cha_1^* Cha_4)
1.92670425E-17	2	-13	13	# BR(Ah_5 -> Cha_2^* Cha_2)
2.52937878E-11	2	-13	15	# BR(Ah_5 -> Cha_2^* Cha_3)
1.20245249E-21	2	-13	-1000024	# BR(Ah_5 -> Cha_2^* Cha_4)
6.27204642E-12	2	-15	11	# BR(Ah_5 -> Cha_3^* Cha_1)
2.52937878E-11	2	-15	13	# BR(Ah_5 -> Cha_3^* Cha_2)
9.37082730E-13	2	-15	15	# BR(Ah_5 -> Cha_3^* Cha_3)
4.95136802E-01	2	-15	-1000024	# BR(Ah_5 -> Cha_3^* Cha_4)
6.19356014E-22	2	1000024	11	# BR(Ah_5 -> Cha_4^* Cha_1)
1.20245249E-21	2	1000024	13	# BR(Ah_5 -> Cha_4^* Cha_2)
4.95136802E-01	2	1000024	15	# BR(Ah_5 -> Cha_4^* Cha_3)
1.25052612E-12	2	1000024	-1000024	# BR(Ah_5 -> Cha_4^* Cha_4)
1.36627789E-17	2	12	12	# BR(Ah_5 -> Chi_1 Chi_1)

1.57729761E-15	2		12	14	# BR(Ah_5 -> Chi_1 Chi_2)
2.39204775E-14	2		12	16	# BR(Ah_5 -> Chi_1 Chi_3)
1.41508451E-03	2		12	1000022	# BR(Ah_5 -> Chi_1 Chi_4)
9.50600489E-04	2		12	1000023	# BR(Ah_5 -> Chi_1 Chi_5)
7.86968816E-06	2		12	1000025	# BR(Ah_5 -> Chi_1 Chi_6)
7.98381254E-06	2		12	1000039	# BR(Ah_5 -> Chi_1 Chi_7)
8.40540717E-06	2		12	1000045	# BR(Ah_5 -> Chi_1 Chi_8)
3.99353102E-15	2		14	14	# BR(Ah_5 -> Chi_2 Chi_2)
5.33780910E-14	2		14	16	# BR(Ah_5 -> Chi_2 Chi_3)
2.11895838E-03	2		14	1000022	# BR(Ah_5 -> Chi_2 Chi_4)
1.42343645E-03	2		14	1000023	# BR(Ah_5 -> Chi_2 Chi_5)
1.17841313E-05	2		14	1000025	# BR(Ah_5 -> Chi_2 Chi_6)
1.19550220E-05	2		14	1000039	# BR(Ah_5 -> Chi_2 Chi_7)
1.25863211E-05	2		14	1000045	# BR(Ah_5 -> Chi_2 Chi_8)
7.20666355E-14	2		16	16	# BR(Ah_5 -> Chi_3 Chi_3)
2.22495033E-03	2		16	1000022	# BR(Ah_5 -> Chi_3 Chi_4)
1.49463785E-03	2		16	1000023	# BR(Ah_5 -> Chi_3 Chi_5)
1.23735827E-05	2		16	1000025	# BR(Ah_5 -> Chi_3 Chi_6)
1.25530215E-05	2		16	1000039	# BR(Ah_5 -> Chi_3 Chi_7)
1.32158986E-05	2		16	1000045	# BR(Ah_5 -> Chi_3 Chi_8)
2.61527495E-15	2	1000022	1000022	1000022	# BR(Ah_5 -> Chi_4 Chi_4)
4.99554373E-14	2	1000022	1000023	1000023	# BR(Ah_5 -> Chi_4 Chi_5)
7.74849806E-15	2	1000022	1000025	1000025	# BR(Ah_5 -> Chi_4 Chi_6)
8.92092569E-15	2	1000022	1000039	1000039	# BR(Ah_5 -> Chi_4 Chi_7)
4.27226250E-14	2	1000022	1000045	1000045	# BR(Ah_5 -> Chi_4 Chi_8)
3.88600650E-14	2	1000023	1000023	1000023	# BR(Ah_5 -> Chi_5 Chi_5)
3.00541107E-15	2	1000023	1000025	1000025	# BR(Ah_5 -> Chi_5 Chi_6)
4.51790207E-15	2	1000023	1000039	1000039	# BR(Ah_5 -> Chi_5 Chi_7)
2.59443623E-16	2	1000023	1000045	1000045	# BR(Ah_5 -> Chi_5 Chi_8)
1.20182349E-16	2	1000025	1000025	1000025	# BR(Ah_5 -> Chi_6 Chi_6)
2.70553527E-16	2	1000025	1000039	1000039	# BR(Ah_5 -> Chi_6 Chi_7)
5.45413880E-16	2	1000025	1000045	1000045	# BR(Ah_5 -> Chi_6 Chi_8)
1.53917906E-16	2	1000039	1000039	1000039	# BR(Ah_5 -> Chi_7 Chi_7)
4.83870047E-16	2	1000039	1000045	1000045	# BR(Ah_5 -> Chi_7 Chi_8)
3.57462899E-15	2	1000045	1000045	1000045	# BR(Ah_5 -> Chi_8 Chi_8)
3.48299191E-20	2	-1		1	# BR(Ah_5 -> Fd_1^* Fd_1)
1.25280030E-17	2	-3		3	# BR(Ah_5 -> Fd_2^* Fd_2)
3.36382332E-14	2	-5		5	# BR(Ah_5 -> Fd_3^* Fd_3)
6.39170007E-21	2	-2		2	# BR(Ah_5 -> Fu_1^* Fu_1)
1.51841299E-15	2	-4		4	# BR(Ah_5 -> Fu_2^* Fu_2)
9.62327712E-11	2	-6		6	# BR(Ah_5 -> Fu_3^* Fu_3)
9.70696508E-15	2	25		23	# BR(Ah_5 -> hh_1 VZ)
4.75627440E-14	2	35		23	# BR(Ah_5 -> hh_2 VZ)
2.49125678E-13	2	1000012		23	# BR(Ah_5 -> hh_3 VZ)
2.99379956E-12	2	1000014		23	# BR(Ah_5 -> hh_4 VZ)
DECAY	2000018	1.52978822E-01	# Ah_6		
#	BR	NDA	ID1	ID2	
2.86473209E-15	2		22	22	# BR(Ah_6 -> VP VP)
2.02452078E-12	2		21	21	# BR(Ah_6 -> VG VG)
4.85906762E-14	2		25	36	# BR(Ah_6 -> hh_1 Ah_2)
4.89768248E-14	2		25	1000017	# BR(Ah_6 -> hh_1 Ah_3)
4.84005821E-14	2		25	1000018	# BR(Ah_6 -> hh_1 Ah_4)
1.52874680E-24	2		25	1000019	# BR(Ah_6 -> hh_1 Ah_5)
2.15044702E-13	2		35	36	# BR(Ah_6 -> hh_2 Ah_2)
2.15714450E-13	2		35	1000017	# BR(Ah_6 -> hh_2 Ah_3)
2.13886723E-13	2		35	1000018	# BR(Ah_6 -> hh_2 Ah_4)
2.15506754E-22	2		35	1000019	# BR(Ah_6 -> hh_2 Ah_5)
1.64246629E-11	2	1000012		36	# BR(Ah_6 -> hh_3 Ah_2)
1.65479337E-11	2	1000012		1000017	# BR(Ah_6 -> hh_3 Ah_3)
1.63607953E-11	2	1000012		1000018	# BR(Ah_6 -> hh_3 Ah_4)
9.86067795E-25	2	1000012		1000019	# BR(Ah_6 -> hh_3 Ah_5)
6.38888811E-12	2	1000014		36	# BR(Ah_6 -> hh_4 Ah_2)
6.43740292E-12	2	1000014		1000017	# BR(Ah_6 -> hh_4 Ah_3)
6.36428868E-12	2	1000014		1000018	# BR(Ah_6 -> hh_4 Ah_4)
3.70188667E-23	2	1000014		1000019	# BR(Ah_6 -> hh_4 Ah_5)
7.94336793E-23	2	1000016		36	# BR(Ah_6 -> hh_5 Ah_2)
2.00977276E-22	2	1000016		1000017	# BR(Ah_6 -> hh_5 Ah_3)
1.05573731E-22	2	1000016		1000018	# BR(Ah_6 -> hh_5 Ah_4)
2.82276710E-21	2	-11		11	# BR(Ah_6 -> Cha_1^* Cha_1)
3.01291543E-13	2	-11		13	# BR(Ah_6 -> Cha_1^* Cha_2)
7.45926843E-29	2	-11		15	# BR(Ah_6 -> Cha_1^* Cha_3)
3.83623738E-21	2	-11	-1000024		# BR(Ah_6 -> Cha_1^* Cha_4)
3.01291543E-13	2	-13		11	# BR(Ah_6 -> Cha_2^* Cha_1)

2.37685841E-12	2	-13	13	# BR(Ah_6 -> Cha_2^* Cha_2)
2.03992841E-13	2	-13	15	# BR(Ah_6 -> Cha_2^* Cha_3)
1.40139761E-01	2	-13	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4)
7.45926843E-29	2	-15	11	# BR(Ah_6 -> Cha_3^* Cha_1)
2.03992841E-13	2	-15	13	# BR(Ah_6 -> Cha_3^* Cha_2)
3.64424711E-14	2	-15	15	# BR(Ah_6 -> Cha_3^* Cha_3)
6.39031781E-18	2	-15	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4)
3.83623738E-21	2	1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1)
1.40139761E-01	2	1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2)
6.39031781E-18	2	1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3)
1.00655998E-11	2	1000024	-1000024	# BR(Ah_6 -> Cha_4^* Cha_4)
5.33225436E-17	2	12	12	# BR(Ah_6 -> Chi_1 Chi_1)
6.96941928E-15	2	12	14	# BR(Ah_6 -> Chi_1 Chi_2)
8.05881339E-14	2	12	16	# BR(Ah_6 -> Chi_1 Chi_3)
5.95777806E-03	2	12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
4.04368372E-03	2	12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
3.45046253E-05	2	12	1000025	# BR(Ah_6 -> Chi_1 Chi_6)
3.51781269E-05	2	12	1000039	# BR(Ah_6 -> Chi_1 Chi_7)
3.72235063E-05	2	12	1000045	# BR(Ah_6 -> Chi_1 Chi_8)
3.96089187E-02	2	12	1000055	# BR(Ah_6 -> Chi_1 Chi_9)
5.02256765E-14	2	14	14	# BR(Ah_6 -> Chi_2 Chi_2)
1.97825803E-13	2	14	16	# BR(Ah_6 -> Chi_2 Chi_3)
2.87489037E-02	2	14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)
1.95125553E-02	2	14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
1.66500017E-04	2	14	1000025	# BR(Ah_6 -> Chi_2 Chi_6)
1.69749959E-04	2	14	1000039	# BR(Ah_6 -> Chi_2 Chi_7)
1.79619816E-04	2	14	1000045	# BR(Ah_6 -> Chi_2 Chi_8)
1.91130482E-01	2	14	1000055	# BR(Ah_6 -> Chi_2 Chi_9)
1.54748155E-12	2	16	16	# BR(Ah_6 -> Chi_3 Chi_3)
5.15396754E-02	2	16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)
3.49811867E-02	2	16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
2.98493359E-04	2	16	1000025	# BR(Ah_6 -> Chi_3 Chi_6)
3.04319702E-04	2	16	1000039	# BR(Ah_6 -> Chi_3 Chi_7)
3.22013914E-04	2	16	1000045	# BR(Ah_6 -> Chi_3 Chi_8)
3.42649691E-01	2	16	1000055	# BR(Ah_6 -> Chi_3 Chi_9)
4.05564892E-12	2	1000022	1000022	# BR(Ah_6 -> Chi_4 Chi_4)
4.56705025E-13	2	1000022	1000023	# BR(Ah_6 -> Chi_4 Chi_5)
3.73939463E-14	2	1000022	1000025	# BR(Ah_6 -> Chi_4 Chi_6)
9.39528599E-12	2	1000022	1000039	# BR(Ah_6 -> Chi_4 Chi_7)
1.39367901E-13	2	1000022	1000045	# BR(Ah_6 -> Chi_4 Chi_8)
9.08469760E-12	2	1000022	1000055	# BR(Ah_6 -> Chi_4 Chi_9)
4.30647306E-12	2	1000023	1000023	# BR(Ah_6 -> Chi_5 Chi_5)
1.60040107E-13	2	1000023	1000025	# BR(Ah_6 -> Chi_5 Chi_6)
8.22695831E-12	2	1000023	1000039	# BR(Ah_6 -> Chi_5 Chi_7)
2.98735232E-15	2	1000023	1000045	# BR(Ah_6 -> Chi_5 Chi_8)
3.08137170E-12	2	1000023	1000055	# BR(Ah_6 -> Chi_5 Chi_9)
6.78670823E-18	2	1000025	1000025	# BR(Ah_6 -> Chi_6 Chi_6)
5.18715042E-14	2	1000025	1000039	# BR(Ah_6 -> Chi_6 Chi_7)
1.51870201E-15	2	1000025	1000045	# BR(Ah_6 -> Chi_6 Chi_8)
1.24523877E-14	2	1000025	1000055	# BR(Ah_6 -> Chi_6 Chi_9)
1.98710740E-13	2	1000039	1000039	# BR(Ah_6 -> Chi_7 Chi_7)
9.32084038E-14	2	1000039	1000045	# BR(Ah_6 -> Chi_7 Chi_8)
2.52778981E-13	2	1000039	1000055	# BR(Ah_6 -> Chi_7 Chi_9)
3.97102031E-15	2	1000045	1000045	# BR(Ah_6 -> Chi_8 Chi_8)
2.47533625E-14	2	1000045	1000055	# BR(Ah_6 -> Chi_8 Chi_9)
2.27955395E-19	2	-1	1	# BR(Ah_6 -> Fd_1^* Fd_1)
8.19934623E-17	2	-3	3	# BR(Ah_6 -> Fd_2^* Fd_2)
2.20161795E-13	2	-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
4.70652148E-20	2	-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)
1.11808274E-14	2	-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
8.52959379E-10	2	-6	6	# BR(Ah_6 -> Fu_3^* Fu_3)
3.27337483E-13	2	25	23	# BR(Ah_6 -> hh_1 VZ)
5.11701801E-11	2	35	23	# BR(Ah_6 -> hh_2 VZ)
3.81287986E-12	2	1000012	23	# BR(Ah_6 -> hh_3 VZ)
3.20247281E-12	2	1000014	23	# BR(Ah_6 -> hh_4 VZ)
6.42408930E-23	2	1000016	23	# BR(Ah_6 -> hh_5 VZ)
9.31707859E-16	2	37	24	# BR(Ah_6 -> Hpm_2 Vwm^*)
9.31707859E-16	2	-37	-24	# BR(Ah_6 -> Hpm_2^* Vwm)
DECAY	2000019	1.19750964E+00	# Ah_7	
#	BR	NDA	ID1	ID2
5.24878795E-17	2	22	22	# BR(Ah_7 -> VP VP)
3.97974719E-14	2	21	21	# BR(Ah_7 -> VG VG)
3.10256270E-15	2	25	36	# BR(Ah_7 -> hh_1 Ah_2)

3.96999120E-16	2	25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
5.72137999E-15	2	25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
2.25350008E-23	2	25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
8.95368098E-24	2	25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
1.82277259E-14	2	35	36	# BR(Ah_7 -> hh_2 Ah_2)
2.36442989E-15	2	35	1000017	# BR(Ah_7 -> hh_2 Ah_3)
3.40051566E-14	2	35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
5.17057679E-26	2	35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
2.06908761E-24	2	35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
1.22257756E-12	2	1000012	36	# BR(Ah_7 -> hh_3 Ah_2)
1.58651304E-13	2	1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3)
2.28155349E-12	2	1000012	1000018	# BR(Ah_7 -> hh_3 Ah_4)
1.92116973E-26	2	1000012	1000019	# BR(Ah_7 -> hh_3 Ah_5)
8.39202086E-26	2	1000012	2000018	# BR(Ah_7 -> hh_3 Ah_6)
4.74846649E-13	2	1000014	36	# BR(Ah_7 -> hh_4 Ah_2)
6.16230265E-14	2	1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3)
8.86192748E-13	2	1000014	1000018	# BR(Ah_7 -> hh_4 Ah_4)
6.31626549E-25	2	1000014	1000019	# BR(Ah_7 -> hh_4 Ah_5)
1.70013663E-25	2	1000014	2000018	# BR(Ah_7 -> hh_4 Ah_6)
9.00080890E-24	2	1000016	36	# BR(Ah_7 -> hh_5 Ah_2)
2.32447086E-24	2	1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3)
2.06559199E-23	2	1000016	1000018	# BR(Ah_7 -> hh_5 Ah_4)
1.26299194E-24	2	2000012	36	# BR(Ah_7 -> hh_6 Ah_2)
1.36821422E-26	2	2000012	1000017	# BR(Ah_7 -> hh_6 Ah_3)
1.19176754E-23	2	2000012	1000018	# BR(Ah_7 -> hh_6 Ah_4)
2.77567393E-18	2	-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)
8.99848623E-17	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
3.70834365E-14	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
2.43345706E-02	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
8.99848623E-17	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
4.86114641E-18	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
1.01823220E-21	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
3.70834365E-14	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
1.40486827E-15	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
1.55862754E-21	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
2.43345706E-02	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1)
1.01823220E-21	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2)
1.55862754E-21	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3)
5.42705916E-13	2	1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
1.10595470E-16	2	12	12	# BR(Ah_7 -> Chi_1 Chi_1)
9.79793833E-15	2	12	14	# BR(Ah_7 -> Chi_1 Chi_2)
1.84529156E-13	2	12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.25230300E-02	2	12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
8.51473066E-03	2	12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
7.30298495E-05	2	12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
7.45170365E-05	2	12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
7.89165035E-05	2	12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
6.30591535E-01	2	12	1000055	# BR(Ah_7 -> Chi_1 Chi_9)
9.41171567E-15	2	14	14	# BR(Ah_7 -> Chi_2 Chi_2)
9.01783710E-14	2	14	16	# BR(Ah_7 -> Chi_2 Chi_3)
5.45962624E-03	2	14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
3.71214050E-03	2	14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
3.18385951E-05	2	14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
3.24869594E-05	2	14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
3.44049813E-05	2	14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
2.74917020E-01	2	14	1000055	# BR(Ah_7 -> Chi_2 Chi_9)
8.70125527E-15	2	16	16	# BR(Ah_7 -> Chi_3 Chi_3)
2.93695120E-04	2	16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
1.99690877E-04	2	16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
1.71272531E-06	2	16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
1.74760341E-06	2	16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
1.85078148E-06	2	16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
1.47888855E-02	2	16	1000055	# BR(Ah_7 -> Chi_3 Chi_9)
2.45962755E-13	2	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4)
1.22502831E-14	2	1000022	1000023	# BR(Ah_7 -> Chi_4 Chi_5)
4.68756826E-13	2	1000022	1000025	# BR(Ah_7 -> Chi_4 Chi_6)
3.23754938E-15	2	1000022	1000039	# BR(Ah_7 -> Chi_4 Chi_7)
1.49133928E-15	2	1000022	1000045	# BR(Ah_7 -> Chi_4 Chi_8)
4.05652260E-12	2	1000022	1000055	# BR(Ah_7 -> Chi_4 Chi_9)
2.08421048E-13	2	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5)
4.78929559E-13	2	1000023	1000025	# BR(Ah_7 -> Chi_5 Chi_6)
8.71260021E-16	2	1000023	1000039	# BR(Ah_7 -> Chi_5 Chi_7)
4.08266750E-19	2	1000023	1000045	# BR(Ah_7 -> Chi_5 Chi_8)

6.70928515E-12	2	1000023	1000055	# BR(Ah_7 -> Chi_5 Chi_9)
8.58488121E-15	2	1000025	1000025	# BR(Ah_7 -> Chi_6 Chi_6)
4.00810958E-15	2	1000025	1000039	# BR(Ah_7 -> Chi_6 Chi_7)
3.94785746E-15	2	1000025	1000045	# BR(Ah_7 -> Chi_6 Chi_8)
1.69846766E-13	2	1000025	1000055	# BR(Ah_7 -> Chi_6 Chi_9)
1.05496423E-16	2	1000039	1000039	# BR(Ah_7 -> Chi_7 Chi_7)
1.83674512E-16	2	1000039	1000045	# BR(Ah_7 -> Chi_7 Chi_8)
1.96822809E-14	2	1000039	1000055	# BR(Ah_7 -> Chi_7 Chi_9)
7.88039161E-17	2	1000045	1000045	# BR(Ah_7 -> Chi_8 Chi_8)
1.70109728E-14	2	1000045	1000055	# BR(Ah_7 -> Chi_8 Chi_9)
8.78771805E-21	2	-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
3.16086116E-18	2	-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
8.48729831E-15	2	-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
1.37142355E-21	2	-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
3.25795526E-16	2	-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
2.54105622E-11	2	-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
4.47741822E-12	2	25	23	# BR(Ah_7 -> hh_1 VZ)
1.14156409E-14	2	35	23	# BR(Ah_7 -> hh_2 VZ)
4.79279200E-14	2	1000012	23	# BR(Ah_7 -> hh_3 VZ)
5.20894296E-14	2	1000014	23	# BR(Ah_7 -> hh_4 VZ)
6.09911553E-25	2	1000016	23	# BR(Ah_7 -> hh_5 VZ)
2.52319512E-25	2	2000012	23	# BR(Ah_7 -> hh_6 VZ)
1.12323565E-21	2	-37	1000011	# BR(Ah_7 -> Hpm_2^* Hpm_3)
1.02587839E-15	2	-37	1000013	# BR(Ah_7 -> Hpm_2^* Hpm_5)
1.12323565E-21	2	-1000011	37	# BR(Ah_7 -> Hpm_3^* Hpm_2)
1.02587839E-15	2	-1000013	37	# BR(Ah_7 -> Hpm_5^* Hpm_2)
4.71173086E-26	2	37	24	# BR(Ah_7 -> Hpm_2 Vwm^*)
4.71173086E-26	2	-37	-24	# BR(Ah_7 -> Hpm_2^* Vwm)
3.09041845E-10	2	1000011	24	# BR(Ah_7 -> Hpm_3 Vwm^*)
3.09041845E-10	2	-1000011	-24	# BR(Ah_7 -> Hpm_3^* Vwm)
2.15658113E-29	2	2000011	24	# BR(Ah_7 -> Hpm_4 Vwm^*)
2.15658113E-29	2	-2000011	-24	# BR(Ah_7 -> Hpm_4^* Vwm)
9.39325232E-27	2	1000013	24	# BR(Ah_7 -> Hpm_5 Vwm^*)
9.39325232E-27	2	-1000013	-24	# BR(Ah_7 -> Hpm_5^* Vwm)
1.07193861E-25	2	2000013	24	# BR(Ah_7 -> Hpm_6 Vwm^*)
1.07193861E-25	2	-2000013	-24	# BR(Ah_7 -> Hpm_6^* Vwm)

DECAY 2000020 7.68987093E+01 # Ah_8

#	BR	NDA	ID1	ID2	
2.76359218E-08	2		22	22	# BR(Ah_8 -> VP VP)
7.80738926E-06	2		21	21	# BR(Ah_8 -> VG VG)
8.70729170E-07	2		25	36	# BR(Ah_8 -> hh_1 Ah_2)
7.32631703E-11	2		25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
1.44281614E-09	2		25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
6.31859308E-16	2		25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
2.42787803E-16	2		25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
4.02295982E-17	2		25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
4.35260423E-06	2		35	36	# BR(Ah_8 -> hh_2 Ah_2)
8.78522136E-10	2		35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
6.55949537E-10	2		35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
7.47347385E-16	2		35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
2.01407503E-16	2		35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
2.94707754E-17	2		35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
2.83001898E-04	2		1000012	36	# BR(Ah_8 -> hh_3 Ah_2)
6.94460037E-10	2		1000012	1000017	# BR(Ah_8 -> hh_3 Ah_3)
9.44032538E-11	2		1000012	1000018	# BR(Ah_8 -> hh_3 Ah_4)
1.00870588E-16	2		1000012	1000019	# BR(Ah_8 -> hh_3 Ah_5)
3.60757226E-17	2		1000012	2000018	# BR(Ah_8 -> hh_3 Ah_6)
3.20530891E-18	2		1000012	2000019	# BR(Ah_8 -> hh_3 Ah_7)
1.09019873E-04	2		1000014	36	# BR(Ah_8 -> hh_4 Ah_2)
7.02660877E-10	2		1000014	1000017	# BR(Ah_8 -> hh_4 Ah_3)
5.98281955E-11	2		1000014	1000018	# BR(Ah_8 -> hh_4 Ah_4)
9.69980574E-16	2		1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5)
3.41092648E-16	2		1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6)
3.71384805E-17	2		1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7)
2.45453653E-15	2		1000016	36	# BR(Ah_8 -> hh_5 Ah_2)
3.90072650E-19	2		1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3)
2.59628916E-20	2		1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4)
3.67472115E-28	2		1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5)
1.46589083E-28	2		1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6)
1.59944394E-29	2		1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7)
8.45532612E-16	2		2000012	36	# BR(Ah_8 -> hh_6 Ah_2)
1.29700705E-18	2		2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3)
1.30240965E-18	2		2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4)

1.35691586E-28	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5)
5.08118333E-29	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6)
4.99601993E-30	2	2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7)
5.98446965E-17	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2)
1.27798925E-19	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3)
1.83030834E-18	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4)
1.27672538E-29	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
4.21619032E-30	2	2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6)
7.35874889E-09	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
5.54634991E-24	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
3.01381067E-21	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
8.69343246E-15	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
1.07057307E-12	2	-11	-1000037	# BR(Ah_8 -> Cha_1^* Cha_5)
5.54634991E-24	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
3.28731608E-04	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
1.21543388E-20	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
4.22211250E-14	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
4.30950554E-12	2	-13	-1000037	# BR(Ah_8 -> Cha_2^* Cha_5)
3.01381067E-21	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
1.21543388E-20	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
9.50033820E-02	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
9.21592802E-14	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
9.47598518E-14	2	-15	-1000037	# BR(Ah_8 -> Cha_3^* Cha_5)
8.69343246E-15	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
4.22211250E-14	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
9.21592802E-14	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
1.49199414E-03	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
9.22794750E-02	2	1000024	-1000037	# BR(Ah_8 -> Cha_4^* Cha_5)
1.07057307E-12	2	1000037	11	# BR(Ah_8 -> Cha_5^* Cha_1)
4.30950554E-12	2	1000037	13	# BR(Ah_8 -> Cha_5^* Cha_2)
9.47598518E-14	2	1000037	15	# BR(Ah_8 -> Cha_5^* Cha_3)
9.22794750E-02	2	1000037	-1000024	# BR(Ah_8 -> Cha_5^* Cha_4)
1.03626875E-28	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
8.73870512E-27	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
1.35241799E-25	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
9.48817301E-15	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
6.77413949E-15	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
2.55057652E-17	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)
4.14627416E-17	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
1.12306164E-16	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
7.96041494E-13	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
1.62066472E-12	2	12	1000065	# BR(Ah_8 -> Chi_1 Chi_10)
2.42452489E-27	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
7.43803062E-29	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
3.70633319E-16	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
1.91035442E-15	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
3.09570043E-17	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
1.79231878E-17	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
6.97128499E-18	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
1.01487735E-13	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
2.06465316E-13	2	14	1000065	# BR(Ah_8 -> Chi_2 Chi_10)
6.64861986E-25	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
4.69608825E-14	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
4.03616284E-15	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
4.28039913E-16	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
1.60664817E-16	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
4.32757065E-16	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
1.86060570E-12	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
3.79093585E-12	2	16	1000065	# BR(Ah_8 -> Chi_3 Chi_10)
8.23811117E-04	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
1.70129198E-06	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
5.52047279E-05	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
7.65856482E-05	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
1.06338702E-04	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
2.44078115E-02	2	1000022	1000055	# BR(Ah_8 -> Chi_4 Chi_9)
5.12639462E-02	2	1000022	1000065	# BR(Ah_8 -> Chi_4 Chi_10)
3.67285733E-04	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
1.33088994E-04	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
1.69762800E-04	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
2.20536103E-04	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
2.03577884E-02	2	1000023	1000055	# BR(Ah_8 -> Chi_5 Chi_9)
3.99253255E-02	2	1000023	1000065	# BR(Ah_8 -> Chi_5 Chi_10)
8.00569581E-07	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)

2.04251804E-06	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)
2.45001433E-06	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
2.27943252E-04	2	1000025	1000055	# BR(Ah_8 -> Chi_6 Chi_9)
4.58292493E-04	2	1000025	1000065	# BR(Ah_8 -> Chi_6 Chi_10)
1.08438524E-06	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
2.80098921E-06	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)
2.43260700E-04	2	1000039	1000055	# BR(Ah_8 -> Chi_7 Chi_9)
4.87126831E-04	2	1000039	1000065	# BR(Ah_8 -> Chi_7 Chi_10)
1.54314370E-06	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
2.69230990E-04	2	1000045	1000055	# BR(Ah_8 -> Chi_8 Chi_9)
5.37017570E-04	2	1000045	1000065	# BR(Ah_8 -> Chi_8 Chi_10)
7.09611162E-06	2	1000055	1000055	# BR(Ah_8 -> Chi_9 Chi_9)
1.35307114E-05	2	1000055	1000065	# BR(Ah_8 -> Chi_9 Chi_10)
5.94263273E-07	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
2.13751012E-04	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
5.73947991E-01	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
9.94273008E-14	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
2.36199767E-08	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
1.85755759E-03	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
1.19272761E-04	2	25	23	# BR(Ah_8 -> hh_1 VZ)
1.42386829E-04	2	35	23	# BR(Ah_8 -> hh_2 VZ)
2.39901905E-05	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
1.63045637E-04	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
3.62487443E-17	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
1.44487823E-17	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
1.39401938E-18	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
3.44183120E-29	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4)
5.83590930E-05	2	-37	1000013	# BR(Ah_8 -> Hpm_2^* Hpm_5)
1.22563100E-29	2	-37	2000013	# BR(Ah_8 -> Hpm_2^* Hpm_6)
2.07629902E-15	2	-1000011	1000015	# BR(Ah_8 -> Hpm_3^* Hpm_7)
3.44183120E-29	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2)
1.30027153E-10	2	-2000011	2000013	# BR(Ah_8 -> Hpm_4^* Hpm_6)
1.71396905E-30	2	-2000011	1000015	# BR(Ah_8 -> Hpm_4^* Hpm_7)
5.83590930E-05	2	-1000013	37	# BR(Ah_8 -> Hpm_5^* Hpm_2)
3.97519737E-30	2	-1000013	1000015	# BR(Ah_8 -> Hpm_5^* Hpm_7)
1.22563100E-29	2	-2000013	37	# BR(Ah_8 -> Hpm_6^* Hpm_2)
1.30027153E-10	2	-2000013	2000011	# BR(Ah_8 -> Hpm_6^* Hpm_4)
2.07629902E-15	2	-1000015	1000011	# BR(Ah_8 -> Hpm_7^* Hpm_3)
1.71396905E-30	2	-1000015	2000011	# BR(Ah_8 -> Hpm_7^* Hpm_4)
3.97519737E-30	2	-1000015	1000013	# BR(Ah_8 -> Hpm_7^* Hpm_5)
4.04109822E-19	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)
4.04109822E-19	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)
3.70439470E-23	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)
3.70439470E-23	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)
6.50322372E-18	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)
6.50322372E-18	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)
4.30885950E-16	2	1000013	24	# BR(Ah_8 -> Hpm_5 Vwm^*)
4.30885950E-16	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* Vwm)
5.34833250E-20	2	2000013	24	# BR(Ah_8 -> Hpm_6 Vwm^*)
5.34833250E-20	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* Vwm)
1.77897351E-19	2	1000015	24	# BR(Ah_8 -> Hpm_7 Vwm^*)
1.77897351E-19	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* Vwm)
7.28518844E-04	2	-1000001	2000005	# BR(Ah_8 -> Sd_1^* Sd_6)
7.76942236E-11	2	-1000003	2000003	# BR(Ah_8 -> Sd_2^* Sd_5)
2.16002786E-13	2	-1000005	2000001	# BR(Ah_8 -> Sd_3^* Sd_4)
2.16002786E-13	2	-2000001	1000005	# BR(Ah_8 -> Sd_4^* Sd_3)
7.76942236E-11	2	-2000003	1000003	# BR(Ah_8 -> Sd_5^* Sd_2)
7.28518844E-04	2	-2000005	1000001	# BR(Ah_8 -> Sd_6^* Sd_1)
3.21559773E-20	2	-1000002	1000004	# BR(Ah_8 -> Su_1^* Su_2)
4.00834188E-14	2	-1000002	1000006	# BR(Ah_8 -> Su_1^* Su_3)
6.48829731E-11	2	-1000002	2000002	# BR(Ah_8 -> Su_1^* Su_4)
1.98974472E-13	2	-1000002	2000004	# BR(Ah_8 -> Su_1^* Su_5)
1.64149180E-13	2	-1000002	2000006	# BR(Ah_8 -> Su_1^* Su_6)
3.21559773E-20	2	-1000004	1000002	# BR(Ah_8 -> Su_2^* Su_1)
2.72587395E-16	2	-1000004	1000006	# BR(Ah_8 -> Su_2^* Su_3)
9.50633507E-09	2	-1000004	2000002	# BR(Ah_8 -> Su_2^* Su_4)
5.30820700E-07	2	-1000004	2000004	# BR(Ah_8 -> Su_2^* Su_5)
4.37052543E-07	2	-1000004	2000006	# BR(Ah_8 -> Su_2^* Su_6)
4.00834188E-14	2	-1000006	1000002	# BR(Ah_8 -> Su_3^* Su_1)
2.72587395E-16	2	-1000006	1000004	# BR(Ah_8 -> Su_3^* Su_2)
9.23802156E-20	2	-1000006	2000004	# BR(Ah_8 -> Su_3^* Su_5)
2.65166540E-19	2	-1000006	2000006	# BR(Ah_8 -> Su_3^* Su_6)
6.48829731E-11	2	-2000002	1000002	# BR(Ah_8 -> Su_4^* Su_1)

9.50633507E-09	2	-2000002	1000004	# BR(Ah_8 -> Su_4^* Su_2)
3.17407384E-12	2	-2000002	2000004	# BR(Ah_8 -> Su_4^* Su_5)
9.11072587E-12	2	-2000002	2000006	# BR(Ah_8 -> Su_4^* Su_6)
1.98974472E-13	2	-2000004	1000002	# BR(Ah_8 -> Su_5^* Su_1)
5.30820700E-07	2	-2000004	1000004	# BR(Ah_8 -> Su_5^* Su_2)
9.23802156E-20	2	-2000004	1000006	# BR(Ah_8 -> Su_5^* Su_3)
3.17407384E-12	2	-2000004	2000002	# BR(Ah_8 -> Su_5^* Su_4)
2.05939961E-06	2	-2000004	2000006	# BR(Ah_8 -> Su_5^* Su_6)
1.64149180E-13	2	-2000006	1000002	# BR(Ah_8 -> Su_6^* Su_1)
4.37052543E-07	2	-2000006	1000004	# BR(Ah_8 -> Su_6^* Su_2)
2.65166540E-19	2	-2000006	1000006	# BR(Ah_8 -> Su_6^* Su_3)
9.11072587E-12	2	-2000006	2000002	# BR(Ah_8 -> Su_6^* Su_4)
2.05939961E-06	2	-2000006	2000004	# BR(Ah_8 -> Su_6^* Su_5)
DECAY 37	9.96634685E-01	# Hpm_2		
# BR	NDA	ID1	ID2	
5.98700494E-13	2	36	-24	# BR(Hpm_2 -> Ah_2 Vwm)
1.12208496E-12	2	1000017	-24	# BR(Hpm_2 -> Ah_3 Vwm)
8.31477775E-14	2	1000018	-24	# BR(Hpm_2 -> Ah_4 Vwm)
3.66104169E-15	2	12	11	# BR(Hpm_2 -> Chi_1 Cha_1)
2.19734062E-14	2	12	13	# BR(Hpm_2 -> Chi_1 Cha_2)
1.90214849E-11	2	12	15	# BR(Hpm_2 -> Chi_1 Cha_3)
8.74544362E-05	2	12	-1000024	# BR(Hpm_2 -> Chi_1 Cha_4)
5.48207153E-15	2	14	11	# BR(Hpm_2 -> Chi_2 Cha_1)
3.29076194E-14	2	14	13	# BR(Hpm_2 -> Chi_2 Cha_2)
2.35972396E-12	2	14	15	# BR(Hpm_2 -> Chi_2 Cha_3)
1.30954942E-04	2	14	-1000024	# BR(Hpm_2 -> Chi_2 Cha_4)
5.75628889E-15	2	16	11	# BR(Hpm_2 -> Chi_3 Cha_1)
3.45585009E-14	2	16	13	# BR(Hpm_2 -> Chi_3 Cha_2)
4.58760335E-11	2	16	15	# BR(Hpm_2 -> Chi_3 Cha_3)
1.37505411E-04	2	16	-1000024	# BR(Hpm_2 -> Chi_3 Cha_4)
3.57448596E-23	2	1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)
6.95199888E-22	2	1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)
5.03603526E-01	2	1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)
4.80697730E-13	2	1000022	-1000024	# BR(Hpm_2 -> Chi_4 Cha_4)
1.05037913E-23	2	1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)
5.68002345E-22	2	1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)
4.82989897E-01	2	1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)
9.24082418E-13	2	1000023	-1000024	# BR(Hpm_2 -> Chi_5 Cha_4)
1.98278090E-24	2	1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1)
4.46162566E-24	2	1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2)
4.08101060E-03	2	1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3)
1.44721220E-14	2	1000025	-1000024	# BR(Hpm_2 -> Chi_6 Cha_4)
1.70082552E-26	2	1000039	11	# BR(Hpm_2 -> Chi_7 Cha_1)
1.20442762E-23	2	1000039	13	# BR(Hpm_2 -> Chi_7 Cha_2)
4.29089034E-03	2	1000039	15	# BR(Hpm_2 -> Chi_7 Cha_3)
1.82703434E-14	2	1000039	-1000024	# BR(Hpm_2 -> Chi_7 Cha_4)
2.02169141E-27	2	1000045	11	# BR(Hpm_2 -> Chi_8 Cha_1)
5.18499045E-24	2	1000045	13	# BR(Hpm_2 -> Chi_8 Cha_2)
4.67876133E-03	2	1000045	15	# BR(Hpm_2 -> Chi_8 Cha_3)
2.73326411E-14	2	1000045	-1000024	# BR(Hpm_2 -> Chi_8 Cha_4)
3.59022914E-20	2	-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)
5.83667650E-19	2	-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)
3.61788510E-19	2	-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)
7.09724461E-17	2	-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)
1.33575141E-15	2	-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)
5.46836075E-17	2	-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)
3.01025258E-15	2	-6	1	# BR(Hpm_2 -> Fu_3^* Fd_1)
1.42361639E-13	2	-6	3	# BR(Hpm_2 -> Fu_3^* Fd_2)
8.49994761E-11	2	-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)
1.09579712E-14	2	25	-24	# BR(Hpm_2 -> hh_1 Vwm)
5.37649026E-14	2	35	-24	# BR(Hpm_2 -> hh_2 Vwm)
3.09300564E-13	2	1000012	-24	# BR(Hpm_2 -> hh_3 Vwm)
3.34090666E-12	2	1000014	-24	# BR(Hpm_2 -> hh_4 Vwm)
1.86137660E-15	2	-24	23	# BR(Hpm_2 -> Vwm VZ)
DECAY 1000011	2.42710803E-01	# Hpm_3		
# BR	NDA	ID1	ID2	
3.67093520E-26	2	37	1000019	# BR(Hpm_3 -> Hpm_2 Ah_5)
1.49443582E-24	2	36	-24	# BR(Hpm_3 -> Ah_2 Vwm)
1.83901020E-25	2	1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm)
2.64476384E-24	2	1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm)
1.57120073E-16	2	12	11	# BR(Hpm_3 -> Chi_1 Cha_1)
2.27734090E-17	2	12	13	# BR(Hpm_3 -> Chi_1 Cha_2)
5.00221512E-19	2	12	15	# BR(Hpm_3 -> Chi_1 Cha_3)

4.75703160E-07	2		12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)
2.48470213E-14	2		14	11	# BR(Hpm_3 -> Chi_2 Cha_1)
9.92845192E-18	2		14	13	# BR(Hpm_3 -> Chi_2 Cha_2)
2.18080719E-19	2		14	15	# BR(Hpm_3 -> Chi_2 Cha_3)
2.07390819E-07	2		14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)
4.22139363E-13	2		16	11	# BR(Hpm_3 -> Chi_3 Cha_1)
5.34091124E-19	2		16	13	# BR(Hpm_3 -> Chi_3 Cha_2)
1.17324337E-20	2		16	15	# BR(Hpm_3 -> Chi_3 Cha_3)
1.11563812E-08	2		16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)
3.06308376E-02	2	1000022		11	# BR(Hpm_3 -> Chi_4 Cha_1)
5.64230554E-26	2	1000022		13	# BR(Hpm_3 -> Chi_4 Cha_2)
2.21196391E-26	2	1000022		15	# BR(Hpm_3 -> Chi_4 Cha_3)
1.27937600E-21	2	1000022	-1000024		# BR(Hpm_3 -> Chi_4 Cha_4)
1.76619721E-02	2	1000023		11	# BR(Hpm_3 -> Chi_5 Cha_1)
3.44889505E-26	2	1000023		13	# BR(Hpm_3 -> Chi_5 Cha_2)
2.14077879E-26	2	1000023		15	# BR(Hpm_3 -> Chi_5 Cha_3)
9.30838435E-22	2	1000023	-1000024		# BR(Hpm_3 -> Chi_5 Cha_4)
1.77580321E-04	2	1000025		11	# BR(Hpm_3 -> Chi_6 Cha_1)
3.27405805E-28	2	1000025		13	# BR(Hpm_3 -> Chi_6 Cha_2)
1.81817513E-28	2	1000025		15	# BR(Hpm_3 -> Chi_6 Cha_3)
2.21295095E-20	2	1000025	-1000024		# BR(Hpm_3 -> Chi_6 Cha_4)
1.81028282E-04	2	1000039		11	# BR(Hpm_3 -> Chi_7 Cha_1)
3.51548167E-28	2	1000039		13	# BR(Hpm_3 -> Chi_7 Cha_2)
1.97825680E-28	2	1000039		15	# BR(Hpm_3 -> Chi_7 Cha_3)
2.47924941E-21	2	1000039	-1000024		# BR(Hpm_3 -> Chi_7 Cha_4)
1.91526706E-04	2	1000045		11	# BR(Hpm_3 -> Chi_8 Cha_1)
3.74908372E-28	2	1000045		13	# BR(Hpm_3 -> Chi_8 Cha_2)
2.17090397E-28	2	1000045		15	# BR(Hpm_3 -> Chi_8 Cha_3)
4.23071792E-21	2	1000045	-1000024		# BR(Hpm_3 -> Chi_8 Cha_4)
9.51156361E-01	2	1000055		11	# BR(Hpm_3 -> Chi_9 Cha_1)
1.61535775E-24	2	1000055		13	# BR(Hpm_3 -> Chi_9 Cha_2)
5.57956113E-27	2	1000055		15	# BR(Hpm_3 -> Chi_9 Cha_3)
2.82673990E-21	2	1000055	-1000024		# BR(Hpm_3 -> Chi_9 Cha_4)
1.47088214E-29	2	-2		1	# BR(Hpm_3 -> Fu_1^* Fd_1)
2.82986281E-28	2	-2		3	# BR(Hpm_3 -> Fu_1^* Fd_2)
1.75518838E-28	2	-2		5	# BR(Hpm_3 -> Fu_1^* Fd_3)
4.01759904E-29	2	-4		1	# BR(Hpm_3 -> Fu_2^* Fd_1)
6.01555593E-27	2	-4		3	# BR(Hpm_3 -> Fu_2^* Fd_2)
2.53800291E-26	2	-4		5	# BR(Hpm_3 -> Fu_2^* Fd_3)
2.03715015E-27	2	-6		1	# BR(Hpm_3 -> Fu_3^* Fd_1)
9.63501064E-26	2	-6		3	# BR(Hpm_3 -> Fu_3^* Fd_2)
7.14826231E-23	2	-6		5	# BR(Hpm_3 -> Fu_3^* Fd_3)
3.67093542E-26	2		37	1000016	# BR(Hpm_3 -> Hpm_2 hh_5)
3.78661012E-24	2		25	-24	# BR(Hpm_3 -> hh_1 Vwm)
1.44829225E-26	2		35	-24	# BR(Hpm_3 -> hh_2 Vwm)
2.62199079E-26	2	1000012		-24	# BR(Hpm_3 -> hh_3 Vwm)
4.42182651E-26	2	1000014		-24	# BR(Hpm_3 -> hh_4 Vwm)
5.83159714E-27	2	-24		23	# BR(Hpm_3 -> Vwm VZ)
DECAY	2000011	2.57796584E-01	# Hpm_4		
#	BR	NDA	ID1	ID2	
1.10562237E-27	2		37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
3.41311022E-27	2		37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
1.55871712E-27	2		37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
4.24357894E-18	2		37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
4.43452940E-16	2		36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
4.46274454E-16	2	1000017		-24	# BR(Hpm_4 -> Ah_3 Vwm)
4.41253791E-16	2	1000018		-24	# BR(Hpm_4 -> Ah_4 Vwm)
1.75021865E-20	2	1000019		-24	# BR(Hpm_4 -> Ah_5 Vwm)
2.40673342E-14	2		12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
1.69120447E-13	2		12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
2.24108533E-15	2		12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
2.02142512E-03	2		12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
1.16135490E-13	2		14	11	# BR(Hpm_4 -> Chi_2 Cha_1)
2.04974809E-13	2		14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
1.08142000E-14	2		14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
9.75426667E-03	2		14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
2.08202215E-13	2		16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
4.42177436E-13	2		16	13	# BR(Hpm_4 -> Chi_3 Cha_2)
1.93871787E-14	2		16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
1.74869881E-02	2		16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)
6.28206361E-22	2	1000022		11	# BR(Hpm_4 -> Chi_4 Cha_1)
4.37695451E-02	2	1000022		13	# BR(Hpm_4 -> Chi_4 Cha_2)
3.79163525E-21	2	1000022		15	# BR(Hpm_4 -> Chi_4 Cha_3)

1.84266285E-16	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)	
6.03979393E-22	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1)	
3.05558192E-02	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2)	
3.63088350E-21	2	1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3)	
1.35845087E-16	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)	
4.83266247E-24	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1)	
2.92514165E-04	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2)	
3.22410879E-23	2	1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3)	
1.12336472E-15	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)	
6.50263748E-24	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1)	
3.02784979E-04	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2)	
3.29466434E-23	2	1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3)	
3.29472883E-15	2	1000039	-1000024	# BR(Hpm_4 -> Chi_7 Cha_4)	
5.67525535E-24	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1)	
3.25285447E-04	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2)	
3.71066850E-23	2	1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3)	
6.69020536E-16	2	1000045	-1000024	# BR(Hpm_4 -> Chi_8 Cha_4)	
1.84026203E-24	2	1000055	11	# BR(Hpm_4 -> Chi_9 Cha_1)	
8.95491371E-01	2	1000055	13	# BR(Hpm_4 -> Chi_9 Cha_2)	
1.00200300E-21	2	1000055	15	# BR(Hpm_4 -> Chi_9 Cha_3)	
1.20485216E-15	2	1000055	-1000024	# BR(Hpm_4 -> Chi_9 Cha_4)	
9.97511135E-25	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)	
3.05911596E-24	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)	
1.86948903E-24	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)	
1.06820152E-20	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)	
1.99465372E-19	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)	
6.27260434E-22	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)	
5.52451487E-19	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)	
2.61266746E-17	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)	
1.55941299E-14	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)	
4.17702768E-29	2	37	25	# BR(Hpm_4 -> Hpm_2 hh_1)	
3.85565415E-27	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2)	
6.39300945E-28	2	37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)	
1.77609809E-27	2	37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4)	
4.24357928E-18	2	37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5)	
6.37831262E-18	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm)	
9.94491226E-16	2	35	-24	# BR(Hpm_4 -> hh_2 Vwm)	
7.71209232E-17	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm)	
6.41393824E-17	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm)	
1.75113142E-20	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm)	
3.83049719E-30	2	37	23	# BR(Hpm_4 -> Hpm_2 VZ)	
1.60861509E-18	2	-24	23	# BR(Hpm_4 -> Vwm VZ)	
DECAY	1000013	4.63260816E+00	# Hpm_5		
#	BR	NDA	ID1	ID2	
5.76909623E-06	2		37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
5.01774848E-13	2		37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
7.28839896E-13	2		37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
1.09881558E-19	2		37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
7.14754811E-17	2		36	-24	# BR(Hpm_5 -> Ah_2 Vwm)
1.34552517E-16	2	1000017		-24	# BR(Hpm_5 -> Ah_3 Vwm)
9.97056105E-18	2	1000018		-24	# BR(Hpm_5 -> Ah_4 Vwm)
1.82569022E-03	2	1000019		-24	# BR(Hpm_5 -> Ah_5 Vwm)
1.36990550E-12	2	12	11		# BR(Hpm_5 -> Chi_1 Cha_1)
5.52388946E-12	2	12	13		# BR(Hpm_5 -> Chi_1 Cha_2)
1.05488219E-11	2	12	15		# BR(Hpm_5 -> Chi_1 Cha_3)
1.15447914E-01	2	12	-1000024		# BR(Hpm_5 -> Chi_1 Cha_4)
2.05130698E-12	2	14	11		# BR(Hpm_5 -> Chi_2 Cha_1)
8.27151436E-12	2	14	13		# BR(Hpm_5 -> Chi_2 Cha_2)
2.14028663E-12	2	14	15		# BR(Hpm_5 -> Chi_2 Cha_3)
1.72872590E-01	2	14	-1000024		# BR(Hpm_5 -> Chi_2 Cha_4)
2.15391495E-12	2	16	11		# BR(Hpm_5 -> Chi_3 Cha_1)
8.68526194E-12	2	16	13		# BR(Hpm_5 -> Chi_3 Cha_2)
1.60306837E-11	2	16	15		# BR(Hpm_5 -> Chi_3 Cha_3)
1.81519812E-01	2	16	-1000024		# BR(Hpm_5 -> Chi_3 Cha_4)
1.52623278E-20	2	1000022	11		# BR(Hpm_5 -> Chi_4 Cha_1)
6.20266011E-20	2	1000022	13		# BR(Hpm_5 -> Chi_4 Cha_2)
2.36369430E-01	2	1000022	15		# BR(Hpm_5 -> Chi_4 Cha_3)
2.02905944E-15	2	1000022	-1000024		# BR(Hpm_5 -> Chi_4 Cha_4)
1.48243792E-20	2	1000023	11		# BR(Hpm_5 -> Chi_5 Cha_1)
6.02400455E-20	2	1000023	13		# BR(Hpm_5 -> Chi_5 Cha_2)
2.29646947E-01	2	1000023	15		# BR(Hpm_5 -> Chi_5 Cha_3)
1.95217821E-15	2	1000023	-1000024		# BR(Hpm_5 -> Chi_5 Cha_4)
1.27176334E-22	2	1000025	11		# BR(Hpm_5 -> Chi_6 Cha_1)

5.17567681E-22	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2)	
1.98769561E-03	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3)	
2.65608990E-16	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4)	
1.34259027E-22	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1)	
5.45038669E-22	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2)	
2.09948309E-03	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3)	
3.90137458E-16	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4)	
1.50809367E-22	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1)	
6.12824070E-22	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2)	
2.30002078E-03	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3)	
5.77626721E-16	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4)	
4.47753366E-28	2	1000055	11	# BR(Hpm_5 -> Chi_9 Cha_1)	
5.60206033E-23	2	1000055	13	# BR(Hpm_5 -> Chi_9 Cha_2)	
5.04621694E-02	2	1000055	15	# BR(Hpm_5 -> Chi_9 Cha_3)	
2.15373418E-14	2	1000055	-1000024	# BR(Hpm_5 -> Chi_9 Cha_4)	
1.59840936E-23	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)	
3.04873516E-22	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)	
1.89089565E-22	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)	
1.79660267E-21	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)	
3.92112349E-20	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)	
2.74009754E-20	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)	
9.28819165E-20	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)	
4.39260476E-18	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)	
2.63748783E-15	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)	
5.43134369E-07	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1)	
9.71916119E-06	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2)	
1.28692902E-03	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)	
5.81850285E-04	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4)	
2.39022134E-17	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5)	
1.42223194E-18	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm)	
6.94585641E-18	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm)	
3.82488451E-17	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm)	
4.32092407E-16	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm)	
1.82569024E-03	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm)	
1.75774803E-03	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ)	
2.69753658E-19	2	-24	23	# BR(Hpm_5 -> Vwm VZ)	
DECAY #	2000013	1.04172010E-01	# Hpm_6		
#	BR	NDA	ID1	ID2	
8.51892888E-23	2		37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)
2.52353026E-22	2		37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
1.19941272E-22	2		37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
4.52538228E-13	2		37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
3.38685960E-11	2		36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
3.41254995E-11	2		1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm)
3.37415650E-11	2		1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm)
1.42717904E-15	2		1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm)
1.20968062E-14	2		12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
1.43532185E-12	2		12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
1.38556054E-13	2		12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
1.77388261E-04	2		12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
5.83724064E-14	2		14	11	# BR(Hpm_6 -> Chi_2 Cha_1)
6.90860601E-13	2		14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
6.24965645E-13	2		14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
8.55976502E-04	2		14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
1.04647288E-13	2		16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
3.37710368E-12	2		16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
1.10582900E-12	2		16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
1.53455420E-03	2		16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
2.92741410E-22	2		1000022	11	# BR(Hpm_6 -> Chi_4 Cha_1)
4.38063978E-02	2		1000022	13	# BR(Hpm_6 -> Chi_4 Cha_2)
1.44574046E-21	2		1000022	15	# BR(Hpm_6 -> Chi_4 Cha_3)
4.40990010E-14	2		1000022	-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
1.96107273E-22	2		1000023	11	# BR(Hpm_6 -> Chi_5 Cha_1)
4.46926861E-02	2		1000023	13	# BR(Hpm_6 -> Chi_5 Cha_2)
2.50675193E-21	2		1000023	15	# BR(Hpm_6 -> Chi_5 Cha_3)
1.08114827E-12	2		1000023	-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
2.03341070E-23	2		1000025	11	# BR(Hpm_6 -> Chi_6 Cha_1)
3.51464857E-04	2		1000025	13	# BR(Hpm_6 -> Chi_6 Cha_2)
1.29376895E-23	2		1000025	15	# BR(Hpm_6 -> Chi_6 Cha_3)
3.53568544E-13	2		1000025	-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)
9.18938728E-26	2		1000039	11	# BR(Hpm_6 -> Chi_7 Cha_1)
3.69907850E-04	2		1000039	13	# BR(Hpm_6 -> Chi_7 Cha_2)
5.13085800E-23	2		1000039	15	# BR(Hpm_6 -> Chi_7 Cha_3)

3.01243095E-11	2	1000039	-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)
5.39424451E-26	2	1000045	11	# BR(Hpm_6 -> Chi_8 Cha_1)
4.03877491E-04	2	1000045	13	# BR(Hpm_6 -> Chi_8 Cha_2)
6.07805258E-24	2	1000045	15	# BR(Hpm_6 -> Chi_8 Cha_3)
5.40494212E-13	2	1000045	-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)
2.98229809E-20	2	1000055	11	# BR(Hpm_6 -> Chi_9 Cha_1)
9.07807746E-01	2	1000055	13	# BR(Hpm_6 -> Chi_9 Cha_2)
2.38497181E-19	2	1000055	15	# BR(Hpm_6 -> Chi_9 Cha_3)
1.97680084E-11	2	1000055	-1000024	# BR(Hpm_6 -> Chi_9 Cha_4)
3.47370235E-19	2	-2	1	# BR(Hpm_6 -> Fu_1^* Fd_1)
5.53862854E-18	2	-2	3	# BR(Hpm_6 -> Fu_1^* Fd_2)
3.43329714E-18	2	-2	5	# BR(Hpm_6 -> Fu_1^* Fd_3)
7.58593933E-16	2	-4	1	# BR(Hpm_6 -> Fu_2^* Fd_1)
1.42642480E-14	2	-4	3	# BR(Hpm_6 -> Fu_2^* Fd_2)
5.21779513E-16	2	-4	5	# BR(Hpm_6 -> Fu_2^* Fd_3)
3.93934244E-14	2	-6	1	# BR(Hpm_6 -> Fu_3^* Fd_1)
1.86300392E-12	2	-6	3	# BR(Hpm_6 -> Fu_3^* Fd_2)
1.11227077E-09	2	-6	5	# BR(Hpm_6 -> Fu_3^* Fd_3)
3.03068349E-24	2	37	25	# BR(Hpm_6 -> Hpm_2 hh_1)
2.99775102E-22	2	37	35	# BR(Hpm_6 -> Hpm_2 hh_2)
2.98485094E-23	2	37	1000012	# BR(Hpm_6 -> Hpm_2 hh_3)
1.05806668E-22	2	37	1000014	# BR(Hpm_6 -> Hpm_2 hh_4)
4.52538235E-13	2	37	1000016	# BR(Hpm_6 -> Hpm_2 hh_5)
4.91090998E-13	2	25	-24	# BR(Hpm_6 -> hh_1 Vwm)
7.61302563E-11	2	35	-24	# BR(Hpm_6 -> hh_2 Vwm)
5.90163575E-12	2	1000012	-24	# BR(Hpm_6 -> hh_3 Vwm)
4.89694718E-12	2	1000014	-24	# BR(Hpm_6 -> hh_4 Vwm)
1.42792325E-15	2	1000016	-24	# BR(Hpm_6 -> hh_5 Vwm)
2.75090168E-26	2	37	23	# BR(Hpm_6 -> Hpm_2 VZ)
1.23395883E-13	2	-24	23	# BR(Hpm_6 -> Vwm VZ)
DECAY #	1000015	1.14458922E+00	# Hpm_7	
#	BR	NDA	ID1	ID2
7.33134438E-24	2	37	36	# BR(Hpm_7 -> Hpm_2 Ah_2)
2.10906841E-24	2	37	1000017	# BR(Hpm_7 -> Hpm_2 Ah_3)
1.74588108E-23	2	37	1000018	# BR(Hpm_7 -> Hpm_2 Ah_4)
9.04210186E-15	2	37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
9.90048832E-13	2	1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2)
7.57821459E-20	2	1000011	1000017	# BR(Hpm_7 -> Hpm_3 Ah_3)
1.39675634E-19	2	1000011	1000018	# BR(Hpm_7 -> Hpm_3 Ah_4)
1.23795793E-21	2	1000011	1000019	# BR(Hpm_7 -> Hpm_3 Ah_5)
5.35499302E-29	2	2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2)
4.42524547E-28	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4)
4.55460974E-29	2	1000013	36	# BR(Hpm_7 -> Hpm_5 Ah_2)
2.70566943E-28	2	1000013	1000017	# BR(Hpm_7 -> Hpm_5 Ah_3)
8.27532077E-28	2	1000013	1000018	# BR(Hpm_7 -> Hpm_5 Ah_4)
1.12525139E-15	2	1000013	1000019	# BR(Hpm_7 -> Hpm_5 Ah_5)
1.19467842E-24	2	2000013	36	# BR(Hpm_7 -> Hpm_6 Ah_2)
2.10073509E-26	2	2000013	1000017	# BR(Hpm_7 -> Hpm_6 Ah_3)
1.20545810E-23	2	2000013	1000018	# BR(Hpm_7 -> Hpm_6 Ah_4)
1.77028517E-12	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
2.29732065E-13	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
3.30379531E-12	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
5.06228957E-26	2	1000019	-24	# BR(Hpm_7 -> Ah_5 Vwm)
1.17083921E-25	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
1.87886932E-14	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
1.21651967E-13	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
1.85727476E-13	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
2.82686260E-04	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
3.05651669E-15	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
5.30377601E-14	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
8.13519601E-14	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
1.23241845E-04	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
1.50765776E-14	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
2.85604261E-15	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
4.91161368E-15	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
6.62967150E-06	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
1.07488941E-03	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
3.26758642E-23	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
5.01264275E-23	2	1000022	15	# BR(Hpm_7 -> Chi_4 Cha_3)
2.57273317E-15	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
1.14529307E-03	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
6.37418769E-23	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
9.73605933E-23	2	1000023	15	# BR(Hpm_7 -> Chi_5 Cha_3)

3.55676306E-14	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
6.23379112E-06	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
7.44329082E-25	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
2.04147987E-24	2	1000025	15	# BR(Hpm_7 -> Chi_6 Cha_3)
1.15246861E-12	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
6.36108936E-06	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
1.97343654E-25	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
4.21939771E-25	2	1000039	15	# BR(Hpm_7 -> Chi_7 Cha_3)
1.31632944E-14	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
6.73787382E-06	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
7.59300178E-25	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
2.42382241E-25	2	1000045	15	# BR(Hpm_7 -> Chi_8 Cha_3)
9.31898937E-15	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
9.97347926E-01	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
4.22840947E-20	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
6.47028867E-20	2	1000055	15	# BR(Hpm_7 -> Chi_9 Cha_3)
1.14941648E-11	2	1000055	-1000024	# BR(Hpm_7 -> Chi_9 Cha_4)
9.11692948E-21	2	-2	1	# BR(Hpm_7 -> Fu_1^* Fd_1)
1.51604554E-19	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
9.39918993E-20	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
1.57789086E-17	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
2.97376569E-16	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
1.41178276E-17	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
8.48732126E-16	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
4.01384584E-14	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
2.39657042E-11	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
2.33294241E-23	2	37	25	# BR(Hpm_7 -> Hpm_2 hh_1)
3.26517120E-26	2	37	35	# BR(Hpm_7 -> Hpm_2 hh_2)
2.92120372E-25	2	37	1000012	# BR(Hpm_7 -> Hpm_2 hh_3)
1.18375275E-24	2	37	1000014	# BR(Hpm_7 -> Hpm_2 hh_4)
9.04210187E-15	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5)
9.36551746E-14	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
1.68380753E-12	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2)
2.23397558E-10	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)
1.01049987E-10	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)
1.52403598E-21	2	1000011	1000016	# BR(Hpm_7 -> Hpm_3 hh_5)
3.55331669E-28	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1)
8.20228689E-29	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2)
6.63087042E-30	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3)
8.14629649E-28	2	1000013	25	# BR(Hpm_7 -> Hpm_5 hh_1)
5.70573545E-29	2	1000013	35	# BR(Hpm_7 -> Hpm_5 hh_2)
7.89596905E-27	2	1000013	1000012	# BR(Hpm_7 -> Hpm_5 hh_3)
5.57880231E-27	2	1000013	1000014	# BR(Hpm_7 -> Hpm_5 hh_4)
1.12525140E-15	2	1000013	1000016	# BR(Hpm_7 -> Hpm_5 hh_5)
9.31421979E-24	2	2000013	25	# BR(Hpm_7 -> Hpm_6 hh_1)
2.11544578E-24	2	2000013	35	# BR(Hpm_7 -> Hpm_6 hh_2)
2.84613310E-25	2	2000013	1000012	# BR(Hpm_7 -> Hpm_6 hh_3)
3.25650866E-25	2	2000013	1000014	# BR(Hpm_7 -> Hpm_6 hh_4)
4.70564140E-12	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)
1.28765846E-14	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)
3.66083079E-14	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)
4.54888536E-14	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)
3.21201733E-25	2	1000016	-24	# BR(Hpm_7 -> hh_5 Vwm)
3.02978171E-26	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)
1.59559918E-30	2	37	23	# BR(Hpm_7 -> Hpm_2 VZ)
3.23888199E-10	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)
4.76929669E-29	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ)
9.64504758E-27	2	1000013	23	# BR(Hpm_7 -> Hpm_5 VZ)
4.09676424E-30	2	2000013	23	# BR(Hpm_7 -> Hpm_6 VZ)
7.29591191E-15	2	-24	23	# BR(Hpm_7 -> Vwm VZ)
DECAY #	2000015	7.26558138E+01	# Hpm_8	
#	BR	NDA	ID1	ID2
2.07447166E-15	2	37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
4.65388617E-19	2	37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
3.14243960E-20	2	37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
7.77402993E-08	2	37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
6.32641926E-26	2	37	2000018	# BR(Hpm_8 -> Hpm_2 Ah_6)
1.36876797E-25	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2)
1.67417217E-26	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3)
2.40531571E-25	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4)
2.15889366E-15	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7)
1.07859781E-19	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2)
2.55011249E-20	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3)

2.51534381E-20	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4)
2.30096707E-28	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5)
8.48232633E-11	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6)
1.82777396E-30	2	2000011	2000019	# BR(Hpm_8 -> Hpm_4 Ah_7)
1.13680634E-18	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2)
3.55889409E-18	2	1000013	1000017	# BR(Hpm_8 -> Hpm_5 Ah_3)
2.62284369E-19	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4)
6.18338616E-05	2	1000013	1000019	# BR(Hpm_8 -> Hpm_5 Ah_5)
4.77854028E-23	2	1000013	2000018	# BR(Hpm_8 -> Hpm_5 Ah_6)
4.35364621E-30	2	1000013	2000019	# BR(Hpm_8 -> Hpm_5 Ah_7)
8.44813901E-16	2	2000013	36	# BR(Hpm_8 -> Hpm_6 Ah_2)
1.27649017E-18	2	2000013	1000017	# BR(Hpm_8 -> Hpm_6 Ah_3)
1.28238021E-18	2	2000013	1000018	# BR(Hpm_8 -> Hpm_6 Ah_4)
1.60338816E-25	2	2000013	1000019	# BR(Hpm_8 -> Hpm_6 Ah_5)
1.70826858E-07	2	2000013	2000018	# BR(Hpm_8 -> Hpm_6 Ah_6)
6.18168484E-17	2	1000015	36	# BR(Hpm_8 -> Hpm_7 Ah_2)
1.38651155E-19	2	1000015	1000017	# BR(Hpm_8 -> Hpm_7 Ah_3)
1.98586797E-18	2	1000015	1000018	# BR(Hpm_8 -> Hpm_7 Ah_4)
1.29160471E-30	2	1000015	1000019	# BR(Hpm_8 -> Hpm_7 Ah_5)
3.99317575E-04	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm)
2.33680505E-11	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm)
2.55039777E-11	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm)
2.97059748E-18	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm)
2.14781794E-18	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm)
7.74930238E-19	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm)
5.33831356E-09	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1)
2.40417014E-05	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2)
2.47146833E-02	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3)
3.76648373E-14	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4)
3.43174675E-12	2	12	-1000037	# BR(Hpm_8 -> Chi_1 Cha_5)
2.32732787E-09	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1)
1.16011800E-04	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2)
3.70079560E-02	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3)
5.59516956E-14	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4)
4.37031368E-13	2	14	-1000037	# BR(Hpm_8 -> Chi_2 Cha_5)
1.25196270E-10	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1)
2.07980470E-04	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2)
3.88591228E-02	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3)
5.92005112E-14	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4)
8.03095879E-12	2	16	-1000037	# BR(Hpm_8 -> Chi_3 Cha_5)
4.69178323E-19	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1)
8.52044412E-15	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2)
5.81260545E-14	2	1000022	15	# BR(Hpm_8 -> Chi_4 Cha_3)
4.08750364E-05	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
9.80713633E-02	2	1000022	-1000037	# BR(Hpm_8 -> Chi_4 Cha_5)
1.60974135E-15	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
1.64678827E-14	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
5.21945439E-14	2	1000023	15	# BR(Hpm_8 -> Chi_5 Cha_3)
7.04618972E-05	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
9.55144178E-02	2	1000023	-1000037	# BR(Hpm_8 -> Chi_5 Cha_5)
1.37451340E-17	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
5.33801272E-17	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
8.34521153E-17	2	1000025	15	# BR(Hpm_8 -> Chi_6 Cha_3)
2.60444375E-04	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
8.37892114E-04	2	1000025	-1000037	# BR(Hpm_8 -> Chi_6 Cha_5)
3.54697025E-18	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
2.20988998E-16	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
1.51696436E-16	2	1000039	15	# BR(Hpm_8 -> Chi_7 Cha_3)
3.33304304E-04	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
8.86640426E-04	2	1000039	-1000037	# BR(Hpm_8 -> Chi_7 Cha_5)
5.77462679E-18	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
5.63076638E-17	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
8.33582894E-17	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)
4.34137305E-04	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
9.73144836E-04	2	1000045	-1000037	# BR(Hpm_8 -> Chi_8 Cha_5)
5.77578359E-13	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
2.32477445E-12	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
5.22558816E-14	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
4.97990007E-02	2	1000055	-1000024	# BR(Hpm_8 -> Chi_9 Cha_4)
1.64131685E-05	2	1000055	-1000037	# BR(Hpm_8 -> Chi_9 Cha_5)
1.13375421E-12	2	1000065	11	# BR(Hpm_8 -> Chi_10 Cha_1)
4.56427517E-12	2	1000065	13	# BR(Hpm_8 -> Chi_10 Cha_2)
1.00543625E-13	2	1000065	15	# BR(Hpm_8 -> Chi_10 Cha_3)

9.77248907E-02	2	1000065	-1000024	# BR(Hpm_8 -> Chi_10 Cha_4)
5.42306100E-07	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
1.04357397E-05	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
6.47285172E-06	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
3.01522096E-08	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
1.94742668E-04	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
9.35928912E-04	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
6.29786551E-08	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
3.31926330E-06	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)
5.49593924E-01	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
6.67542927E-16	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
7.93022701E-16	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
1.28717638E-16	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3)
9.84908592E-16	2	37	1000014	# BR(Hpm_8 -> Hpm_2 hh_4)
7.77402994E-08	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5)
5.78607201E-26	2	37	2000012	# BR(Hpm_8 -> Hpm_2 hh_6)
6.11281084E-30	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
1.00258653E-25	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
4.13054805E-25	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2)
3.05762437E-23	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
1.20046794E-23	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
2.15889366E-15	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7)
5.74402254E-20	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
1.26508226E-20	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2)
5.68203422E-18	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
1.87099638E-18	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
2.49345277E-28	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
8.48232635E-11	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6)
1.82247870E-30	2	2000011	2000014	# BR(Hpm_8 -> Hpm_4 hh_7)
1.13388490E-18	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1)
6.99182820E-18	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2)
4.32963514E-16	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3)
2.57679702E-16	2	1000013	1000014	# BR(Hpm_8 -> Hpm_5 hh_4)
6.18338616E-05	2	1000013	1000016	# BR(Hpm_8 -> Hpm_5 hh_5)
4.77959799E-23	2	1000013	2000012	# BR(Hpm_8 -> Hpm_5 hh_6)
4.27835759E-30	2	1000013	2000014	# BR(Hpm_8 -> Hpm_5 hh_7)
2.56975356E-16	2	2000013	25	# BR(Hpm_8 -> Hpm_6 hh_1)
2.15731692E-16	2	2000013	35	# BR(Hpm_8 -> Hpm_6 hh_2)
3.87803285E-17	2	2000013	1000012	# BR(Hpm_8 -> Hpm_6 hh_3)
3.60253452E-16	2	2000013	1000014	# BR(Hpm_8 -> Hpm_6 hh_4)
1.71250662E-25	2	2000013	1000016	# BR(Hpm_8 -> Hpm_6 hh_5)
1.70826858E-07	2	2000013	2000012	# BR(Hpm_8 -> Hpm_6 hh_6)
2.54340885E-30	2	2000013	2000014	# BR(Hpm_8 -> Hpm_6 hh_7)
4.31342873E-17	2	1000015	25	# BR(Hpm_8 -> Hpm_7 hh_1)
3.14478671E-17	2	1000015	35	# BR(Hpm_8 -> Hpm_7 hh_2)
3.54929080E-18	2	1000015	1000012	# BR(Hpm_8 -> Hpm_7 hh_3)
3.92748920E-17	2	1000015	1000014	# BR(Hpm_8 -> Hpm_7 hh_4)
1.03231793E-29	2	1000015	1000016	# BR(Hpm_8 -> Hpm_7 hh_5)
2.60185444E-30	2	1000015	2000012	# BR(Hpm_8 -> Hpm_7 hh_6)
1.26166814E-04	2	25	-24	# BR(Hpm_8 -> hh_1 Vwm)
1.50617793E-04	2	35	-24	# BR(Hpm_8 -> hh_2 Vwm)
2.53823370E-05	2	1000012	-24	# BR(Hpm_8 -> hh_3 Vwm)
1.72459818E-04	2	1000014	-24	# BR(Hpm_8 -> hh_4 Vwm)
2.86724006E-17	2	1000016	-24	# BR(Hpm_8 -> hh_5 Vwm)
1.35972673E-17	2	2000012	-24	# BR(Hpm_8 -> hh_6 Vwm)
2.72199078E-18	2	2000014	-24	# BR(Hpm_8 -> hh_7 Vwm)
3.33514968E-20	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
3.92903655E-23	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
6.90662547E-18	2	2000011	23	# BR(Hpm_8 -> Hpm_4 VZ)
4.56899440E-16	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ)
2.43378162E-22	2	2000013	23	# BR(Hpm_8 -> Hpm_6 VZ)
3.02586161E-16	2	-1000002	1000001	# BR(Hpm_8 -> Su_1^* Sd_1)
4.15482571E-11	2	-1000002	1000003	# BR(Hpm_8 -> Su_1^* Sd_2)
5.47811273E-12	2	-1000002	1000005	# BR(Hpm_8 -> Su_1^* Sd_3)
1.02765631E-06	2	-1000002	2000001	# BR(Hpm_8 -> Su_1^* Sd_4)
2.18752889E-08	2	-1000002	2000003	# BR(Hpm_8 -> Su_1^* Sd_5)
1.30541209E-15	2	-1000002	2000005	# BR(Hpm_8 -> Su_1^* Sd_6)
8.37916855E-10	2	-1000004	1000001	# BR(Hpm_8 -> Su_2^* Sd_1)
1.93450396E-09	2	-1000004	1000003	# BR(Hpm_8 -> Su_2^* Sd_2)
1.16017860E-13	2	-1000004	1000005	# BR(Hpm_8 -> Su_2^* Sd_3)
2.17980046E-08	2	-1000004	2000001	# BR(Hpm_8 -> Su_2^* Sd_4)
1.02011485E-06	2	-1000004	2000003	# BR(Hpm_8 -> Su_2^* Sd_5)
3.38397460E-09	2	-1000004	2000005	# BR(Hpm_8 -> Su_2^* Sd_6)

5.23216213E-19	2	-1000006	1000001	# BR(Hpm_8 -> Su_3^* Sd_1)
2.13960337E-17	2	-1000006	1000003	# BR(Hpm_8 -> Su_3^* Sd_2)
1.12104570E-18	2	-1000006	1000005	# BR(Hpm_8 -> Su_3^* Sd_3)
8.22141176E-14	2	-1000006	2000001	# BR(Hpm_8 -> Su_3^* Sd_4)
4.37791963E-15	2	-1000006	2000003	# BR(Hpm_8 -> Su_3^* Sd_5)
7.70339339E-19	2	-1000006	2000005	# BR(Hpm_8 -> Su_3^* Sd_6)
1.79769811E-11	2	-2000002	1000001	# BR(Hpm_8 -> Su_4^* Sd_1)
9.48604699E-11	2	-2000002	1000003	# BR(Hpm_8 -> Su_4^* Sd_2)
1.42425977E-14	2	-2000002	1000005	# BR(Hpm_8 -> Su_4^* Sd_3)
1.04458433E-09	2	-2000002	2000001	# BR(Hpm_8 -> Su_4^* Sd_4)
1.94111475E-08	2	-2000002	2000003	# BR(Hpm_8 -> Su_4^* Sd_5)
2.64677680E-11	2	-2000002	2000005	# BR(Hpm_8 -> Su_4^* Sd_6)
2.26544580E-03	2	-2000004	1000001	# BR(Hpm_8 -> Su_5^* Sd_1)
5.74557900E-09	2	-2000004	1000003	# BR(Hpm_8 -> Su_5^* Sd_2)
3.40546785E-13	2	-2000004	1000005	# BR(Hpm_8 -> Su_5^* Sd_3)
2.52164165E-08	2	-2000004	2000001	# BR(Hpm_8 -> Su_5^* Sd_4)
1.18702764E-06	2	-2000004	2000003	# BR(Hpm_8 -> Su_5^* Sd_5)
4.96429857E-06	2	-2000004	2000005	# BR(Hpm_8 -> Su_5^* Sd_6)
8.90425399E-05	2	-2000006	1000001	# BR(Hpm_8 -> Su_6^* Sd_1)
4.15555502E-09	2	-2000006	1000003	# BR(Hpm_8 -> Su_6^* Sd_2)
2.46284317E-13	2	-2000006	1000005	# BR(Hpm_8 -> Su_6^* Sd_3)
1.76519964E-08	2	-2000006	2000001	# BR(Hpm_8 -> Su_6^* Sd_4)
8.30835764E-07	2	-2000006	2000003	# BR(Hpm_8 -> Su_6^* Sd_5)
8.95766611E-12	2	-24	23	# BR(Hpm_8 -> Vwm VZ)