

```

# SUSY Les Houches Accord 2 - mnuSSM Spectrum + Decays + Flavor Observables
# SPheno module generated by SARAH
# -----
# SPheno v3.3.6
# W. Porod, Comput. Phys. Commun. 153 (2003) 275-315, hep-ph/0301101
# W. Porod, F.Staub, Comput.Phys.Commun.183 (2012) 2458-2469, arXiv:1104.1573
# SARAH: 4.5.9b3
# F. Staub; arXiv:0806.0538 (online manual)
# F. Staub; Comput. Phys. Commun. 181 (2010) 1077-1086; arXiv:0909.2863
# F. Staub; Comput. Phys. Commun. 182 (2011) 808-833; arXiv:1002.0840
# F. Staub; Comput. Phys. Commun. 184 (2013) 1792-1809; arXiv:1207.0906
# F. Staub; Comput. Phys. Commun. 185 (2014) 1773-1790; arXiv:1309.7223
# Including the calculation of flavor observables based on the FlavorKit
# W. Porod, F. Staub, A. Vicente; Eur.Phys.J. C74 (2014) 8, 2992; arXiv:1405.1434
# Two-loop mass corrections to Higgs fields based on
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1411.0675
# M. D. Goodsell, K. Nickel, F. Staub; arXiv:1503.03098
#
# in case of problems send email to florian.staub@cern.ch and goodsell@lpthe.jussieu.fr
# -----
# Created: 26.09.2019, 14:19
Block SPINFO # Program information
  1 SPhenoSARAH # spectrum calculator
  2 v3.3.6 # version number of SPheno
  9 4.5.9b3 # version number of SARAH
Block MODSEL # Input parameters
  1 0 # SUSY Scale input
  2 1 # Boundary conditions
  6 1 # switching on flavour violation
Block MINPAR # Input parameters
  3 4.13340378E+00 # TanBeta
Block EXTPAR # Input parameters
  65 4.04900843E+02 # vR1Input
  66 4.04900843E+02 # vR2Input
  67 4.04900843E+02 # vR3Input
  200 1.50000007E-04 # vL1Input
  201 4.00999998E-04 # vL2Input
  202 5.49999997E-04 # vL3Input
Block SMINPUTS # SM parameters
  1 1.27932000E+02 # alpha_em^-1(MZ)^MSbar
  2 1.16637000E-05 # G_mu [GeV^-2]
  3 1.18700000E-01 # alpha_s(MZ)^MSbar
  4 9.11887000E+01 # m_Z(pole)
  5 4.20000000E+00 # m_b(m_b), MSbar
  6 1.72600000E+02 # m_t(pole)
  7 1.77669000E+00 # m_tau(pole)
Block MSOFT # (SUSY Scale)
  21 1.35933245E+06 # mHd2
  22 2.02274384E+04 # mHu2
  1 9.00000000E+02 # M1
  2 1.80000000E+03 # M2
  3 2.70000000E+03 # M3
Block HMX # (SUSY Scale)
  102 5.59058680E+01 # vd
  103 2.31081526E+02 # vu
Block PHASES # (SUSY Scale)
  1 1.00000000E+00 # pG
Block Yd # (SUSY Scale)
  1 1 6.12859838E-05 # Real(Yd(1,1),dp)
  1 2 0.00000000E+00 # Real(Yd(1,2),dp)
  1 3 0.00000000E+00 # Real(Yd(1,3),dp)
  2 1 0.00000000E+00 # Real(Yd(2,1),dp)
  2 2 1.16232038E-03 # Real(Yd(2,2),dp)
  2 3 0.00000000E+00 # Real(Yd(2,3),dp)
  3 1 0.00000000E+00 # Real(Yd(3,1),dp)
  3 2 0.00000000E+00 # Real(Yd(3,2),dp)
  3 3 6.02293269E-02 # Real(Yd(3,3),dp)
Block Ye # (SUSY Scale)
  1 1 1.21361436E-05 # Real(Ye(1,1),dp)
  1 2 0.00000000E+00 # Real(Ye(1,2),dp)
  1 3 0.00000000E+00 # Real(Ye(1,3),dp)
  2 1 0.00000000E+00 # Real(Ye(2,1),dp)
  2 2 2.56507134E-03 # Real(Ye(2,2),dp)

```

```

2 3      0.00000000E+00 # Real(Ye(2,3),dp)
3 1      0.00000000E+00 # Real(Ye(3,1),dp)
3 2      0.00000000E+00 # Real(Ye(3,2),dp)
3 3      4.36062134E-02 # Real(Ye(3,3),dp)
Block {NMSSMRUN, 1} # (SUSY Scale)
1 3.30056488E-01 # Real(lam(1), dp)
2 3.30056488E-01 # Real(lam(2), dp)
3 3.30056488E-01 # Real(lam(3), dp)
Block Yv # (SUSY Scale)
1 1 2.00000002E-07 # Real(Yv(1,1), dp)
1 2 0.00000000E+00 # Real(Yv(1,2), dp)
1 3 0.00000000E+00 # Real(Yv(1,3), dp)
2 1 0.00000000E+00 # Real(Yv(2,1), dp)
2 2 4.00000005E-07 # Real(Yv(2,2), dp)
2 3 0.00000000E+00 # Real(Yv(2,3), dp)
3 1 0.00000000E+00 # Real(Yv(3,1), dp)
3 2 0.00000000E+00 # Real(Yv(3,2), dp)
3 3 5.00000006E-08 # Real(Yv(3,3), dp)
Block Yu # (SUSY Scale)
1 1 6.26675346E-06 # Real(Yu(1,1), dp)
1 2 1.44949704E-06 # Real(Yu(1,2), dp)
1 3 2.20303852E-08 # Real(Yu(1,3), dp)
2 1 -7.06322731E-04 # Real(Yu(2,1), dp)
2 2 3.05175231E-03 # Real(Yu(2,2), dp)
2 3 1.29116781E-04 # Real(Yu(2,3), dp)
3 1 5.23455279E-03 # Real(Yu(3,1), dp)
3 2 -3.59976857E-02 # Real(Yu(3,2), dp)
3 3 8.79462015E-01 # Real(Yu(3,3), dp)
Block {NMSSMRUN, 2} # (SUSY Scale)
1 1 1 8.87183436E-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 9.04927088E-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 9.22670740E-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)

```

```

3 1      0.00000000E+00 # Real(Te(3,1),dp)
3 2      0.00000000E+00 # Real(Te(3,2),dp)
3 3      4.00000000E+01 # Real(Te(3,3),dp)
Block {NMSSMRUN, 3} # (SUSY Scale)
  1      3.97135058E+02 # Real(Tlam(1) ,dp)
  2      3.97135058E+02 # Real(Tlam(2) ,dp)
  3      3.97135058E+02 # Real(Tlam(3) ,dp)
Block Tv # (SUSY Scale)
  1 1     -1.00000005E-03 # Real(Tv(1,1),dp)
  1 2      0.00000000E+00 # Real(Tv(1,2),dp)
  1 3      0.00000000E+00 # Real(Tv(1,3),dp)
  2 1      0.00000000E+00 # Real(Tv(2,1),dp)
  2 2     -1.00000005E-03 # Real(Tv(2,2),dp)
  2 3      0.00000000E+00 # Real(Tv(2,3),dp)
  3 1      0.00000000E+00 # Real(Tv(3,1),dp)
  3 2      0.00000000E+00 # Real(Tv(3,2),dp)
  3 3     -3.00000014E-04 # Real(Tv(3,3),dp)
Block Tu # (SUSY Scale)
  1 1      0.00000000E+00 # Real(Tu(1,1),dp)
  1 2      0.00000000E+00 # Real(Tu(1,2),dp)
  1 3      0.00000000E+00 # Real(Tu(1,3),dp)
  2 1      0.00000000E+00 # Real(Tu(2,1),dp)
  2 2      0.00000000E+00 # Real(Tu(2,2),dp)
  2 3      0.00000000E+00 # Real(Tu(2,3),dp)
  3 1      0.00000000E+00 # Real(Tu(3,1),dp)
  3 2      0.00000000E+00 # Real(Tu(3,2),dp)
  3 3     -1.89738545E+03 # Real(Tu(3,3),dp)
Block {NMSSMRUN, 4} # (SUSY Scale)
  1 1 1     -3.05815027E+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     -3.05815027E+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     -3.05815027E+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      1.19543666E+06 # Real(mq2(3,3),dp)
Block MSL2 # (SUSY Scale)
  1 1      4.53528014E+05 # Real(ml2(1,1),dp)
  1 2      0.00000000E+00 # Real(ml2(1,2),dp)
  1 3      0.00000000E+00 # Real(ml2(1,3),dp)
  2 1      0.00000000E+00 # Real(ml2(2,1),dp)
  2 2      1.73315502E+05 # Real(ml2(2,2),dp)
  2 3      0.00000000E+00 # Real(ml2(2,3),dp)
  3 1      0.00000000E+00 # Real(ml2(3,1),dp)

```

```

3 2      0.00000000E+00 # Real(ml2(3,2),dp)
3 3      4.00786944E+04 # Real(ml2(3,3),dp)
Block MSD2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(md2(1,1),dp)
1 2      0.00000000E+00 # Real(md2(1,2),dp)
1 3      0.00000000E+00 # Real(md2(1,3),dp)
2 1      0.00000000E+00 # Real(md2(2,1),dp)
2 2      1.00000000E+06 # Real(md2(2,2),dp)
2 3      0.00000000E+00 # Real(md2(2,3),dp)
3 1      0.00000000E+00 # Real(md2(3,1),dp)
3 2      0.00000000E+00 # Real(md2(3,2),dp)
3 3      1.00000000E+06 # Real(md2(3,3),dp)
Block MSU2 # (SUSY Scale)
1 1      1.00000000E+06 # Real(mu2(1,1),dp)
1 2      0.00000000E+00 # Real(mu2(1,2),dp)
1 3      0.00000000E+00 # Real(mu2(1,3),dp)
2 1      0.00000000E+00 # Real(mu2(2,1),dp)
2 2      1.00000000E+06 # Real(mu2(2,2),dp)
2 3      0.00000000E+00 # Real(mu2(2,3),dp)
3 1      0.00000000E+00 # Real(mu2(3,1),dp)
3 2      0.00000000E+00 # Real(mu2(3,2),dp)
3 3      1.19543666E+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      6.60836289E+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      6.56739837E+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      6.52539618E+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      4.04900843E+02 # vR(1)
2      4.04900843E+02 # vR(2)
3      4.04900843E+02 # vR(3)
Block RVSNEV # (SUSY Scale)
1      1.50000007E-04 # vL(1)
2      4.00999998E-04 # vL(2)
3      5.49999997E-04 # vL(3)
Block MASS # Mass spectrum
# PDG code      mass      particle
1000001      1.00026532E+03 # Sd_1
1000003      1.00026532E+03 # Sd_2
1000005      1.00026590E+03 # Sd_3
2000001      1.00150706E+03 # Sd_4
2000003      1.00150765E+03 # Sd_5
2000005      1.09474452E+03 # Sd_6
1000002      9.45749203E+02 # Su_1
1000004      9.98756961E+02 # Su_2
1000006      9.98774084E+02 # Su_3
2000002      9.99467989E+02 # Su_4
2000004      9.99468565E+02 # Su_5
2000006      1.23863664E+03 # Su_6
      25      8.79920775E+01 # hh_1
      35      9.06284022E+01 # hh_2
1000012      9.12912568E+01 # hh_3
1000014      1.25190650E+02 # hh_4
1000016      1.96068543E+02 # hh_5

```

2000012	4.17455594E+02	# hh_6
2000014	6.77305264E+02	# hh_7
2000016	1.24345137E+03	# hh_8
36	7.16124155E+01	# Ah_2
1000017	1.01058843E+02	# Ah_3
1000018	1.01186135E+02	# Ah_4
1000019	1.96068543E+02	# Ah_5
2000018	4.17455594E+02	# Ah_6
2000019	6.77305264E+02	# Ah_7
2000020	1.24371029E+03	# Ah_8
37	2.08793433E+02	# Hpm_2
1000011	4.24256024E+02	# Hpm_3
2000011	6.80792648E+02	# Hpm_4
1000013	1.00331486E+03	# Hpm_5
2000013	1.00336379E+03	# Hpm_6
1000015	1.00336394E+03	# Hpm_7
2000015	1.23429118E+03	# Hpm_8
23	9.11887000E+01	# VZ
24	8.03497269E+01	# VWm
1	5.00000000E-03	# Fd_1
3	9.50000000E-02	# Fd_2
5	4.20000000E+00	# Fd_3
2	2.50000000E-03	# Fu_1
4	1.27000000E+00	# Fu_2
6	1.72600000E+02	# Fu_3
1000021	2.70000000E+03	# Glu
12	9.61386110E-12	# Chi_1
14	2.91501027E-11	# Chi_2
16	7.97469088E-11	# Chi_3
1000022	5.11610439E+01	# Chi_4
1000023	5.23292993E+01	# Chi_5
1000025	6.00280813E+01	# Chi_6
1000039	2.91695879E+02	# Chi_7
1000045	3.06230152E+02	# Chi_8
1000055	8.92382362E+02	# Chi_9
1000065	1.77042233E+03	# Chi_10
11	5.10998930E-04	# Cha_1
13	1.05658372E-01	# Cha_2
15	1.77669000E+00	# Cha_3
1000024	2.84378192E+02	# Cha_4
1000037	1.77049510E+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	5.87657790E-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	-9.99982733E-01	# Real(ZD(1,6),dp)
2 1	-1.14323531E-13	# Real(ZD(2,1),dp)
2 2	-2.16555774E-02	# Real(ZD(2,2),dp)
2 3	0.00000000E+00	# Real(ZD(2,3),dp)
2 4	-1.00098677E-10	# Real(ZD(2,4),dp)
2 5	-9.99765490E-01	# Real(ZD(2,5),dp)
2 6	0.00000000E+00	# Real(ZD(2,6),dp)
3 1	1.14264125E-03	# Real(ZD(3,1),dp)
3 2	-2.17210193E-12	# Real(ZD(3,2),dp)
3 3	-0.00000000E+00	# Real(ZD(3,3),dp)
3 4	9.99999347E-01	# Real(ZD(3,4),dp)
3 5	-1.00075170E-10	# Real(ZD(3,5),dp)
3 6	-0.00000000E+00	# Real(ZD(3,6),dp)
4 1	-9.99999347E-01	# Real(ZD(4,1),dp)
4 2	-1.07238319E-14	# Real(ZD(4,2),dp)
4 3	-0.00000000E+00	# Real(ZD(4,3),dp)
4 4	1.14264125E-03	# Real(ZD(4,4),dp)
4 5	1.78856689E-16	# Real(ZD(4,5),dp)
4 6	-0.00000000E+00	# Real(ZD(4,6),dp)
5 1	-1.07202339E-14	# Real(ZD(5,1),dp)
5 2	9.99765490E-01	# Real(ZD(5,2),dp)
5 3	-0.00000000E+00	# Real(ZD(5,3),dp)
5 4	4.52879696E-15	# Real(ZD(5,4),dp)
5 5	-2.16555774E-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)

```

6 2      0.00000000E+00 # Real(ZD(6,2),dp)
6 3      9.99982733E-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      5.87657790E-03 # Real(ZD(6,6),dp)
Block USQMIX # ( )
1 1     -4.42016429E-04 # Real(ZU(1,1),dp)
1 2      3.03976390E-03 # Real(ZU(1,2),dp)
1 3      7.07910688E-01 # Real(ZU(1,3),dp)
1 4      1.84807072E-09 # Real(ZU(1,4),dp)
1 5      1.08312116E-05 # Real(ZU(1,5),dp)
1 6      7.06295280E-01 # Real(ZU(1,6),dp)
2 1      9.89799345E-01 # Real(ZU(2,1),dp)
2 2      1.42453171E-01 # Real(ZU(2,2),dp)
2 3      1.47235955E-06 # Real(ZU(2,3),dp)
2 4      5.05552713E-05 # Real(ZU(2,4),dp)
2 5     -2.08503240E-03 # Real(ZU(2,5),dp)
2 6      4.90425158E-06 # Real(ZU(2,6),dp)
3 1     -1.42355275E-01 # Real(ZU(3,1),dp)
3 2      9.89488299E-01 # Real(ZU(3,2),dp)
3 3     -1.00058379E-03 # Real(ZU(3,3),dp)
3 4      4.38170531E-06 # Real(ZU(3,4),dp)
3 5      2.52128967E-02 # Real(ZU(3,5),dp)
3 6     -3.34517782E-03 # Real(ZU(3,6),dp)
4 1      4.94326312E-05 # Real(ZU(4,1),dp)
4 2      1.14640794E-05 # Real(ZU(4,2),dp)
4 3     -3.16253202E-09 # Real(ZU(4,3),dp)
4 4     -9.99999999E-01 # Real(ZU(4,4),dp)
4 5      2.97796747E-06 # Real(ZU(4,5),dp)
4 6     -1.26624854E-08 # Real(ZU(4,6),dp)
5 1     -5.65476756E-03 # Real(ZU(5,1),dp)
5 2      2.46587753E-02 # Real(ZU(5,2),dp)
5 3     -1.88410128E-05 # Real(ZU(5,3),dp)
5 4     -2.97385318E-06 # Real(ZU(5,4),dp)
5 5     -9.99679930E-01 # Real(ZU(5,5),dp)
5 6     -7.54512416E-05 # Real(ZU(5,6),dp)
6 1     -2.39141430E-04 # Real(ZU(6,1),dp)
6 2      1.64456816E-03 # Real(ZU(6,2),dp)
6 3     -7.06301250E-01 # Real(ZU(6,3),dp)
6 4      3.07239523E-10 # Real(ZU(6,4),dp)
6 5      1.80068649E-06 # Real(ZU(6,5),dp)
6 6      7.07909445E-01 # Real(ZU(6,6),dp)
Block SCALARMIX # ( )
1 1      8.29257193E-02 # ZH(1,1)
1 2      4.59535263E-02 # ZH(1,2)
1 3      6.76848882E-01 # ZH(1,3)
1 4      5.55812848E-01 # ZH(1,4)
1 5      4.73243349E-01 # ZH(1,5)
1 6      2.86182538E-07 # ZH(1,6)
1 7      6.85916730E-07 # ZH(1,7)
1 8      9.50089528E-07 # ZH(1,8)
2 1      9.94398701E-03 # ZH(2,1)
2 2      8.46503528E-03 # ZH(2,2)
2 3     -7.09604367E-01 # ZH(2,3)
2 4      6.65712787E-01 # ZH(2,4)
2 5      2.30472529E-01 # ZH(2,5)
2 6     -2.57637714E-07 # ZH(2,6)
2 7      6.98671650E-07 # ZH(2,7)
2 8      4.24842301E-07 # ZH(2,8)
3 1     -8.99740535E-03 # ZH(3,1)
3 2     -8.28634096E-03 # ZH(3,2)
3 3      1.88447943E-01 # ZH(3,3)
3 4      4.94780475E-01 # ZH(3,4)
3 5     -8.48251164E-01 # ZH(3,5)
3 6      6.40743496E-08 # ZH(3,6)
3 7      4.89251760E-07 # ZH(3,7)
3 8     -1.46874203E-06 # ZH(3,8)
4 1      2.31109900E-01 # ZH(4,1)
4 2      9.70704996E-01 # ZH(4,2)
4 3     -3.41308754E-02 # ZH(4,3)
4 4     -3.77888587E-02 # ZH(4,4)
4 5     -4.15585221E-02 # ZH(4,5)
4 6      6.48271135E-07 # ZH(4,6)

```

4	7	1.89864112E-06	# ZH(4,7)
4	8	4.64545483E-06	# ZH(4,8)
5	1	-1.18547188E-06	# ZH(5,1)
5	2	-4.56499364E-06	# ZH(5,2)
5	3	9.43949059E-08	# ZH(5,3)
5	4	9.20141545E-08	# ZH(5,4)
5	5	-1.59968355E-06	# ZH(5,5)
5	6	-3.24124699E-12	# ZH(5,6)
5	7	-9.94444798E-12	# ZH(5,7)
5	8	1.00000000E+00	# ZH(5,8)
6	1	-5.25150860E-07	# ZH(6,1)
6	2	-1.86985673E-06	# ZH(6,2)
6	3	5.25415713E-09	# ZH(6,3)
6	4	-1.01554776E-06	# ZH(6,4)
6	5	9.41696933E-09	# ZH(6,5)
6	6	-1.98201809E-12	# ZH(6,6)
6	7	1.00000000E+00	# ZH(6,7)
6	8	8.94025319E-13	# ZH(6,8)
7	1	-2.15897986E-07	# ZH(7,1)
7	2	-6.28666849E-07	# ZH(7,2)
7	3	-3.64560167E-07	# ZH(7,3)
7	4	7.15692407E-09	# ZH(7,4)
7	5	7.15202291E-09	# ZH(7,5)
7	6	1.00000000E+00	# ZH(7,6)
7	7	7.02234203E-13	# ZH(7,7)
7	8	1.60641032E-13	# ZH(7,8)
8	1	9.69294436E-01	# ZH(8,1)
8	2	-2.35541428E-01	# ZH(8,2)
8	3	-4.07392806E-02	# ZH(8,3)
8	4	-4.07780116E-02	# ZH(8,4)
8	5	-4.08166324E-02	# ZH(8,5)
8	6	4.69234770E-08	# ZH(8,6)
8	7	2.77834853E-08	# ZH(8,7)
8	8	1.61302169E-08	# ZH(8,8)
Block PSEUDOSCALARMIX # ()			
1	1	2.35254616E-01	# ZA(1,1)
1	2	-9.71931552E-01	# ZA(1,2)
1	3	1.21254701E-03	# ZA(1,3)
1	4	1.20073075E-03	# ZA(1,4)
1	5	1.18772880E-03	# ZA(1,5)
1	6	6.25815765E-07	# ZA(1,6)
1	7	1.67721416E-06	# ZA(1,7)
1	8	2.24022027E-06	# ZA(1,8)
2	1	6.98087529E-02	# ZA(2,1)
2	2	1.90306483E-02	# ZA(2,2)
2	3	5.79561148E-01	# ZA(2,3)
2	4	5.75818174E-01	# ZA(2,4)
2	5	5.72107402E-01	# ZA(2,5)
2	6	2.06100868E-07	# ZA(2,6)
2	7	5.63147891E-07	# ZA(2,7)
2	8	8.27700320E-07	# ZA(2,8)
3	1	2.27904192E-04	# ZA(3,1)
3	2	5.07386755E-05	# ZA(3,2)
3	3	-7.85979268E-01	# ZA(3,3)
3	4	5.80968058E-01	# ZA(3,4)
3	5	2.11453663E-01	# ZA(3,5)
3	6	-2.99576700E-07	# ZA(3,6)
3	7	6.23164342E-07	# ZA(3,7)
3	8	3.88340157E-07	# ZA(3,8)
4	1	2.27902794E-04	# ZA(4,1)
4	2	4.99698187E-05	# ZA(4,2)
4	3	-2.11180554E-01	# ZA(4,3)
4	4	-5.73728478E-01	# ZA(4,4)
4	5	7.91352231E-01	# ZA(4,5)
4	6	-8.05221833E-08	# ZA(4,6)
4	7	-6.15787393E-07	# ZA(4,7)
4	8	1.45558543E-06	# ZA(4,8)
5	1	5.95475728E-07	# ZA(5,1)
5	2	-2.15901666E-06	# ZA(5,2)
5	3	-1.30641345E-07	# ZA(5,3)
5	4	-1.30644429E-07	# ZA(5,4)
5	5	1.70974973E-06	# ZA(5,5)
5	6	1.35555051E-12	# ZA(5,6)

5	7	3.67712368E-12	# ZA(5,7)
5	8	-1.00000000E+00	# ZA(5,8)
6	1	4.56439376E-07	# ZA(6,1)
6	2	-1.61396421E-06	# ZA(6,2)
6	3	-3.23118956E-08	# ZA(6,3)
6	4	1.04064655E-06	# ZA(6,4)
6	5	-3.23318076E-08	# ZA(6,5)
6	6	1.62574213E-12	# ZA(6,6)
6	7	-1.00000000E+00	# ZA(6,7)
6	8	-1.07762208E-13	# ZA(6,8)
7	1	-2.05079735E-07	# ZA(7,1)
7	2	5.93812170E-07	# ZA(7,2)
7	3	-3.70795013E-07	# ZA(7,3)
7	4	1.02946013E-08	# ZA(7,4)
7	5	1.02872757E-08	# ZA(7,5)
7	6	1.00000000E+00	# ZA(7,6)
7	7	5.96146660E-13	# ZA(7,7)
7	8	1.60650573E-14	# ZA(7,8)
8	1	9.69423488E-01	# ZA(8,1)
8	2	2.34492829E-01	# ZA(8,2)
8	3	-4.17943676E-02	# ZA(8,3)
8	4	-4.17580936E-02	# ZA(8,4)
8	5	-4.17217717E-02	# ZA(8,5)
8	6	4.49263600E-08	# ZA(8,6)
8	7	2.32639988E-08	# ZA(8,7)
8	8	1.05759814E-08	# ZA(8,8)
Block CHARGEMIX # ()			
1	1	2.35080470E-01	# ZP(1,1)
1	2	-9.71975912E-01	# ZP(1,2)
1	3	6.30187334E-07	# ZP(1,3)
1	4	1.68158462E-06	# ZP(1,4)
1	5	2.28195617E-06	# ZP(1,5)
1	6	-4.70882270E-16	# ZP(1,6)
1	7	-5.69718337E-13	# ZP(1,7)
1	8	-1.43190345E-11	# ZP(1,8)
2	1	-5.48822891E-07	# ZP(2,1)
2	2	2.21501208E-06	# ZP(2,2)
2	3	-1.56478101E-12	# ZP(2,3)
2	4	-4.88918076E-12	# ZP(2,4)
2	5	9.99999898E-01	# ZP(2,5)
2	6	-7.47993065E-20	# ZP(2,6)
2	7	-1.06941196E-16	# ZP(2,7)
2	8	4.52396530E-04	# ZP(2,8)
3	1	4.14769691E-07	# ZP(3,1)
3	2	-1.62975268E-06	# ZP(3,2)
3	3	1.70361257E-12	# ZP(3,3)
3	4	-9.99999990E-01	# ZP(3,4)
3	5	-1.05162535E-12	# ZP(3,5)
3	6	-4.47611710E-18	# ZP(3,6)
3	7	-1.43042672E-04	# ZP(3,7)
3	8	-2.20947461E-15	# ZP(3,8)
4	1	1.85018251E-07	# ZP(4,1)
4	2	-6.03608742E-07	# ZP(4,2)
4	3	-1.00000000E+00	# ZP(4,3)
4	4	-6.43279309E-13	# ZP(4,4)
4	5	-1.26214984E-13	# ZP(4,5)
4	6	-1.02200794E-06	# ZP(4,6)
4	7	-2.27148420E-17	# ZP(4,7)
4	8	-1.41967023E-16	# ZP(4,8)
5	1	3.15229841E-08	# ZP(5,1)
5	2	6.54725053E-09	# ZP(5,2)
5	3	1.79575068E-15	# ZP(5,3)
5	4	6.60106401E-16	# ZP(5,4)
5	5	-4.52396530E-04	# ZP(5,5)
5	6	2.31389810E-16	# ZP(5,6)
5	7	9.40326447E-14	# ZP(5,7)
5	8	9.99999898E-01	# ZP(5,8)
6	1	-2.30475003E-10	# ZP(6,1)
6	2	1.92317338E-10	# ZP(6,2)
6	3	-3.81298095E-16	# ZP(6,3)
6	4	1.43042672E-04	# ZP(6,4)
6	5	-9.48255652E-17	# ZP(6,5)
6	6	8.58895969E-11	# ZP(6,6)

6	7	-9.99999990E-01	# ZP(6,7)
6	8	9.40385640E-14	# ZP(6,8)
7	1	5.82366200E-13	# ZP(7,1)
7	2	-5.22256267E-13	# ZP(7,2)
7	3	-1.02200794E-06	# ZP(7,3)
7	4	-1.22913188E-14	# ZP(7,4)
7	5	2.29563067E-19	# ZP(7,5)
7	6	1.00000000E+00	# ZP(7,6)
7	7	8.58896092E-11	# ZP(7,7)
7	8	-2.31402908E-16	# ZP(7,8)
8	1	9.71975912E-01	# ZP(8,1)
8	2	2.35080470E-01	# ZP(8,2)
8	3	3.79366568E-08	# ZP(8,3)
8	4	2.00231489E-08	# ZP(8,4)
8	5	1.27511058E-08	# ZP(8,5)
8	6	-4.04138730E-13	# ZP(8,6)
8	7	-1.75941938E-10	# ZP(8,7)
8	8	-3.21729467E-08	# 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	5.00161222E-07	# Real(UV(4,1), dp)
4	2	-7.12612796E-07	# Real(UV(4,2), dp)
4	3	-4.26929831E-08	# Real(UV(4,3), dp)
4	4	1.06423562E-03	# Real(UV(4,4), dp)
4	5	-8.83091665E-04	# Real(UV(4,5), dp)
4	6	-6.95340206E-04	# Real(UV(4,6), dp)
4	7	-1.98150116E-02	# Real(UV(4,7), dp)
4	8	8.28587911E-01	# Real(UV(4,8), dp)
4	9	-5.23046833E-01	# Real(UV(4,9), dp)
4	10	-1.98668200E-01	# Real(UV(4,10), dp)
5	1	-1.11464886E-07	# Real(UV(5,1), dp)
5	2	-7.32623257E-07	# Real(UV(5,2), dp)
5	3	1.26561673E-07	# Real(UV(5,3), dp)
5	4	-1.15337096E-03	# Real(UV(5,4), dp)
5	5	9.56504751E-04	# Real(UV(5,5), dp)
5	6	6.60019500E-04	# Real(UV(5,6), dp)
5	7	2.14257645E-02	# Real(UV(5,7), dp)
5	8	-2.22091219E-01	# Real(UV(5,8), dp)
5	9	-6.33913760E-01	# Real(UV(5,9), dp)
5	10	7.40518123E-01	# Real(UV(5,10), dp)
6	1	6.42857728E-08	# Real(UV(6,1), dp)
6	2	7.19275120E-08	# Real(UV(6,2), dp)
6	3	6.53428061E-08	# Real(UV(6,3), dp)
6	4	-1.67149023E-02	# Real(UV(6,4), dp)

```

6 5      1.38100700E-02 # Real(UV(6,5),dp)
6 6      7.16011986E-04 # Real(UV(6,6),dp)
6 7      3.05882700E-01 # Real(UV(6,7),dp)
6 8     -4.82207996E-01 # Real(UV(6,8),dp)
6 9     -5.41244513E-01 # Real(UV(6,9),dp)
6 10    -6.16842752E-01 # Real(UV(6,10),dp)
7 1     -1.61869702E-07 # Real(UV(7,1),dp)
7 2     -3.29940107E-07 # Real(UV(7,2),dp)
7 3     -8.48853231E-08 # Real(UV(7,3),dp)
7 4      5.71645783E-02 # Real(UV(7,4),dp)
7 5     -4.36283856E-02 # Real(UV(7,5),dp)
7 6      7.13683722E-01 # Real(UV(7,6),dp)
7 7     -6.62736597E-01 # Real(UV(7,7),dp)
7 8     -1.23659890E-01 # Real(UV(7,8),dp)
7 9     -1.24181163E-01 # Real(UV(7,9),dp)
7 10    -1.24706830E-01 # Real(UV(7,10),dp)
8 1     -0.00000000E+00 # Real(UV(8,1),dp)
8 2     -0.00000000E+00 # Real(UV(8,2),dp)
8 3     -0.00000000E+00 # Real(UV(8,3),dp)
8 4     -0.00000000E+00 # Real(UV(8,4),dp)
8 5      0.00000000E+00 # Real(UV(8,5),dp)
8 6      0.00000000E+00 # Real(UV(8,6),dp)
8 7      0.00000000E+00 # Real(UV(8,7),dp)
8 8      0.00000000E+00 # Real(UV(8,8),dp)
8 9      0.00000000E+00 # Real(UV(8,9),dp)
8 10     0.00000000E+00 # Real(UV(8,10),dp)
9 1      2.55062353E-08 # Real(UV(9,1),dp)
9 2      7.07947425E-08 # Real(UV(9,2),dp)
9 3      1.06284738E-07 # Real(UV(9,3),dp)
9 4     -9.98068670E-01 # Real(UV(9,4),dp)
9 5     -5.35209735E-03 # Real(UV(9,5),dp)
9 6      2.85979172E-02 # Real(UV(9,6),dp)
9 7     -5.48854843E-02 # Real(UV(9,7),dp)
9 8     -9.69673147E-05 # Real(UV(9,8),dp)
9 9     -9.71256681E-05 # Real(UV(9,9),dp)
9 10    -9.72842101E-05 # Real(UV(9,10),dp)
10 1     -2.63604014E-08 # Real(UV(10,1),dp)
10 2     -7.15127099E-08 # Real(UV(10,2),dp)
10 3     -1.01880153E-07 # Real(UV(10,3),dp)
10 4      2.28359674E-03 # Real(UV(10,4),dp)
10 5     -9.98753393E-01 # Real(UV(10,5),dp)
10 6     -1.78946133E-02 # Real(UV(10,6),dp)
10 7      4.65409155E-02 # Real(UV(10,7),dp)
10 8      2.38898143E-04 # Real(UV(10,8),dp)
10 9      2.39101225E-04 # Real(UV(10,9),dp)
10 10     2.39304115E-04 # Real(UV(10,10),dp)

```

Block IMUVMIX # ()

```

1 1     -8.20904769E-01 # Aimag(UV(1,1))
1 2     -2.55196897E-01 # Aimag(UV(1,2))
1 3      5.10871710E-01 # Aimag(UV(1,3))
1 4      8.40125267E-09 # Aimag(UV(1,4))
1 5     -7.81699741E-09 # Aimag(UV(1,5))
1 6     -2.45725902E-07 # Aimag(UV(1,6))
1 7     -1.41366536E-09 # Aimag(UV(1,7))
1 8      2.65052367E-07 # Aimag(UV(1,8))
1 9      6.56455228E-08 # Aimag(UV(1,9))
1 10    -3.27382904E-07 # Aimag(UV(1,10))
2 1      5.67444752E-01 # Aimag(UV(2,1))
2 2     -2.63945492E-01 # Aimag(UV(2,2))
2 3      7.79961045E-01 # Aimag(UV(2,3))
2 4      8.28543997E-08 # Aimag(UV(2,4))
2 5     -7.79691239E-08 # Aimag(UV(2,5))
2 6      8.12641001E-08 # Aimag(UV(2,6))
2 7     -2.32469958E-08 # Aimag(UV(2,7))
2 8     -2.82116457E-07 # Aimag(UV(2,8))
2 9      4.08945129E-07 # Aimag(UV(2,9))
2 10    -4.27277462E-08 # Aimag(UV(2,10))
3 1      6.42013538E-02 # Aimag(UV(3,1))
3 2     -9.30165212E-01 # Aimag(UV(3,2))
3 3     -3.61484253E-01 # Aimag(UV(3,3))
3 4     -1.17769365E-07 # Aimag(UV(3,4))
3 5      1.10893491E-07 # Aimag(UV(3,5))
3 6     -4.32321216E-07 # Aimag(UV(3,6))

```

3 7 3.57913355E-08 # Aimag(UV(3,7))
3 8 -4.87433881E-07 # Aimag(UV(3,8))
3 9 7.26784322E-07 # Aimag(UV(3,9))
3 10 -3.73811296E-07 # Aimag(UV(3,10))
4 1 0.00000000E+00 # Aimag(UV(4,1))
4 2 0.00000000E+00 # Aimag(UV(4,2))
4 3 0.00000000E+00 # Aimag(UV(4,3))
4 4 0.00000000E+00 # Aimag(UV(4,4))
4 5 0.00000000E+00 # Aimag(UV(4,5))
4 6 0.00000000E+00 # Aimag(UV(4,6))
4 7 0.00000000E+00 # Aimag(UV(4,7))
4 8 0.00000000E+00 # Aimag(UV(4,8))
4 9 0.00000000E+00 # Aimag(UV(4,9))
4 10 0.00000000E+00 # Aimag(UV(4,10))
5 1 0.00000000E+00 # Aimag(UV(5,1))
5 2 0.00000000E+00 # Aimag(UV(5,2))
5 3 0.00000000E+00 # Aimag(UV(5,3))
5 4 0.00000000E+00 # Aimag(UV(5,4))
5 5 0.00000000E+00 # Aimag(UV(5,5))
5 6 0.00000000E+00 # Aimag(UV(5,6))
5 7 0.00000000E+00 # Aimag(UV(5,7))
5 8 0.00000000E+00 # Aimag(UV(5,8))
5 9 0.00000000E+00 # Aimag(UV(5,9))
5 10 0.00000000E+00 # Aimag(UV(5,10))
6 1 0.00000000E+00 # Aimag(UV(6,1))
6 2 0.00000000E+00 # Aimag(UV(6,2))
6 3 0.00000000E+00 # Aimag(UV(6,3))
6 4 0.00000000E+00 # Aimag(UV(6,4))
6 5 0.00000000E+00 # Aimag(UV(6,5))
6 6 0.00000000E+00 # Aimag(UV(6,6))
6 7 0.00000000E+00 # Aimag(UV(6,7))
6 8 0.00000000E+00 # Aimag(UV(6,8))
6 9 0.00000000E+00 # Aimag(UV(6,9))
6 10 0.00000000E+00 # Aimag(UV(6,10))
7 1 0.00000000E+00 # Aimag(UV(7,1))
7 2 0.00000000E+00 # Aimag(UV(7,2))
7 3 0.00000000E+00 # Aimag(UV(7,3))
7 4 0.00000000E+00 # Aimag(UV(7,4))
7 5 0.00000000E+00 # Aimag(UV(7,5))
7 6 0.00000000E+00 # Aimag(UV(7,6))
7 7 0.00000000E+00 # Aimag(UV(7,7))
7 8 0.00000000E+00 # Aimag(UV(7,8))
7 9 0.00000000E+00 # Aimag(UV(7,9))
7 10 0.00000000E+00 # Aimag(UV(7,10))
8 1 -1.50612803E-07 # Aimag(UV(8,1))
8 2 -3.01983742E-07 # Aimag(UV(8,2))
8 3 -5.51230743E-08 # Aimag(UV(8,3))
8 4 -1.74377710E-02 # Aimag(UV(8,4))
8 5 1.91615908E-02 # Aimag(UV(8,5))
8 6 6.99654240E-01 # Aimag(UV(8,6))
8 7 6.79106623E-01 # Aimag(UV(8,7))
8 8 1.27676065E-01 # Aimag(UV(8,8))
8 9 1.27313411E-01 # Aimag(UV(8,9))
8 10 1.26952804E-01 # Aimag(UV(8,10))
9 1 0.00000000E+00 # Aimag(UV(9,1))
9 2 0.00000000E+00 # Aimag(UV(9,2))
9 3 0.00000000E+00 # Aimag(UV(9,3))
9 4 0.00000000E+00 # Aimag(UV(9,4))
9 5 0.00000000E+00 # Aimag(UV(9,5))
9 6 0.00000000E+00 # Aimag(UV(9,6))
9 7 0.00000000E+00 # Aimag(UV(9,7))
9 8 0.00000000E+00 # Aimag(UV(9,8))
9 9 0.00000000E+00 # Aimag(UV(9,9))
9 10 0.00000000E+00 # Aimag(UV(9,10))
10 1 0.00000000E+00 # Aimag(UV(10,1))
10 2 0.00000000E+00 # Aimag(UV(10,2))
10 3 0.00000000E+00 # Aimag(UV(10,3))
10 4 0.00000000E+00 # Aimag(UV(10,4))
10 5 0.00000000E+00 # Aimag(UV(10,5))
10 6 0.00000000E+00 # Aimag(UV(10,6))
10 7 0.00000000E+00 # Aimag(UV(10,7))
10 8 0.00000000E+00 # Aimag(UV(10,8))
10 9 0.00000000E+00 # Aimag(UV(10,9))

```

10 10      0.00000000E+00 # Aimag(UV(10,10))
Block UERMIX # ( )
 1 1      1.00000000E+00 # Real(ZER(1,1),dp)
 1 2      1.86417557E-06 # Real(ZER(1,2),dp)
 1 3      6.15995631E-09 # Real(ZER(1,3),dp)
 1 4     -4.28748280E-08 # Real(ZER(1,4),dp)
 1 5      2.24770507E-07 # Real(ZER(1,5),dp)
 2 1      1.86417568E-06 # Real(ZER(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZER(2,2),dp)
 2 3     -1.63003067E-08 # Real(ZER(2,3),dp)
 2 4      1.12429647E-07 # Real(ZER(2,4),dp)
 2 5     -4.55970903E-07 # Real(ZER(2,5),dp)
 3 1     -6.15995691E-09 # Real(ZER(3,1),dp)
 3 2     -1.63003848E-08 # Real(ZER(3,2),dp)
 3 3      1.00000000E+00 # Real(ZER(3,3),dp)
 3 4     -1.46545351E-07 # Real(ZER(3,4),dp)
 3 5      1.10210812E-07 # Real(ZER(3,5),dp)
 4 1      2.25780755E-07 # Real(ZER(4,1),dp)
 4 2      4.58665277E-07 # Real(ZER(4,2),dp)
 4 3      1.13876642E-07 # Real(ZER(4,3),dp)
 4 4      2.52547952E-02 # Real(ZER(4,4),dp)
 4 5     -9.99681047E-01 # Real(ZER(4,5),dp)
 5 1      3.71844309E-08 # Real(ZER(5,1),dp)
 5 2      1.00878402E-07 # Real(ZER(5,2),dp)
 5 3      1.43715261E-07 # Real(ZER(5,3),dp)
 5 4      9.99681047E-01 # Real(ZER(5,4),dp)
 5 5      2.52547952E-02 # Real(ZER(5,5),dp)
Block UELMIX # ( )
 1 1      1.00000000E+00 # Real(ZEL(1,1),dp)
 1 2      9.98120801E-14 # Real(ZEL(1,2),dp)
 1 3      7.84804073E-15 # Real(ZEL(1,3),dp)
 1 4     -3.13189429E-13 # Real(ZEL(1,4),dp)
 1 5      4.87527824E-12 # Real(ZEL(1,5),dp)
 2 1      9.98123545E-14 # Real(ZEL(2,1),dp)
 2 2     -1.00000000E+00 # Real(ZEL(2,2),dp)
 2 3     -4.36619404E-12 # Real(ZEL(2,3),dp)
 2 4      1.73622166E-10 # Real(ZEL(2,4),dp)
 2 5     -2.70269774E-09 # Real(ZEL(2,5),dp)
 3 1     -7.84830844E-15 # Real(ZEL(3,1),dp)
 3 2     -4.36633515E-12 # Real(ZEL(3,2),dp)
 3 3      1.00000000E+00 # Real(ZEL(3,3),dp)
 3 4     -3.84833027E-09 # Real(ZEL(3,4),dp)
 3 5      5.98983713E-08 # Real(ZEL(3,5),dp)
 4 1      4.88532031E-12 # Real(ZEL(4,1),dp)
 4 2      2.70826474E-09 # Real(ZEL(4,2),dp)
 4 3      6.00217786E-08 # Real(ZEL(4,3),dp)
 4 4      6.58288335E-02 # Real(ZEL(4,4),dp)
 4 5     -9.97830930E-01 # Real(ZEL(4,5),dp)
 5 1     -8.42377952E-15 # Real(ZEL(5,1),dp)
 5 2     -4.66987233E-12 # Real(ZEL(5,2),dp)
 5 3     -1.03056937E-10 # Real(ZEL(5,3),dp)
 5 4      9.97830930E-01 # Real(ZEL(5,4),dp)
 5 5      6.58288335E-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)

```

```

Block UULMIX # ( )
 1 1 9.74272160E-01 # Real(ZUL(1,1),dp)
 1 2 2.25348678E-01 # Real(ZUL(1,2),dp)
 1 3 3.42499367E-03 # Real(ZUL(1,3),dp)
 2 1 -2.25296231E-01 # Real(ZUL(2,1),dp)
 2 2 9.73419462E-01 # Real(ZUL(2,2),dp)
 2 3 4.11844653E-02 # Real(ZUL(2,3),dp)
 3 1 5.94690932E-03 # Real(ZUL(3,1),dp)
 3 2 -4.08965161E-02 # Real(ZUL(3,2),dp)
 3 3 9.99145690E-01 # Real(ZUL(3,3),dp)
Block UURMIX # ( )
 1 1 1.00000000E+00 # Real(ZUR(1,1),dp)
 1 2 0.00000000E+00 # Real(ZUR(1,2),dp)
 1 3 0.00000000E+00 # Real(ZUR(1,3),dp)
 2 1 0.00000000E+00 # Real(ZUR(2,1),dp)
 2 2 1.00000000E+00 # Real(ZUR(2,2),dp)
 2 3 0.00000000E+00 # Real(ZUR(2,3),dp)
 3 1 0.00000000E+00 # Real(ZUR(3,1),dp)
 3 2 0.00000000E+00 # Real(ZUR(3,2),dp)
 3 3 1.00000000E+00 # Real(ZUR(3,3),dp)
DECAY 25 1.66962616E-04 # hh_1
# BR NDA ID1 ID2
 1.23691262E-06 2 22 22 # BR(hh_1 -> VP VP )
 1.00487446E-03 2 21 21 # BR(hh_1 -> VG VG )
 4.44880415E-06 2 24 -24 # BR(hh_1 -> Vwm^* Vwm_virt )
 1.06192632E-08 2 -11 11 # BR(hh_1 -> Cha_1^* Cha_1 )
 9.41246558E-29 2 -11 13 # BR(hh_1 -> Cha_1^* Cha_2 )
 4.84300031E-26 2 -11 15 # BR(hh_1 -> Cha_1^* Cha_3 )
 9.41246558E-29 2 -13 11 # BR(hh_1 -> Cha_2^* Cha_1 )
 4.74381901E-04 2 -13 13 # BR(hh_1 -> Cha_2^* Cha_2 )
 5.34136408E-26 2 -13 15 # BR(hh_1 -> Cha_2^* Cha_3 )
 4.84300031E-26 2 -15 11 # BR(hh_1 -> Cha_3^* Cha_1 )
 5.34136408E-26 2 -15 13 # BR(hh_1 -> Cha_3^* Cha_2 )
 1.36762331E-01 2 -15 15 # BR(hh_1 -> Cha_3^* Cha_3 )
 7.91155331E-25 2 12 12 # BR(hh_1 -> Chi_1 Chi_1 )
 1.28336477E-24 2 12 14 # BR(hh_1 -> Chi_1 Chi_2 )
 7.07060524E-25 2 12 16 # BR(hh_1 -> Chi_1 Chi_3 )
 2.93527972E-12 2 12 1000022 # BR(hh_1 -> Chi_1 Chi_4 )
 3.35390761E-12 2 12 1000023 # BR(hh_1 -> Chi_1 Chi_5 )
 1.34468954E-13 2 12 1000025 # BR(hh_1 -> Chi_1 Chi_6 )
 2.14380999E-23 2 14 14 # BR(hh_1 -> Chi_2 Chi_2 )
 2.36665389E-22 2 14 16 # BR(hh_1 -> Chi_2 Chi_3 )
 8.39097158E-12 2 14 1000022 # BR(hh_1 -> Chi_2 Chi_4 )
 1.36417026E-12 2 14 1000023 # BR(hh_1 -> Chi_2 Chi_5 )
 6.33077339E-15 2 14 1000025 # BR(hh_1 -> Chi_2 Chi_6 )
 4.53354594E-23 2 16 16 # BR(hh_1 -> Chi_3 Chi_3 )
 2.25779368E-11 2 16 1000022 # BR(hh_1 -> Chi_3 Chi_4 )
 1.01037939E-11 2 16 1000023 # BR(hh_1 -> Chi_3 Chi_5 )
 2.79837730E-13 2 16 1000025 # BR(hh_1 -> Chi_3 Chi_6 )
 8.97818310E-07 2 -1 1 # BR(hh_1 -> Fd_1^* Fd_1 )
 3.22936886E-04 2 -3 3 # BR(hh_1 -> Fd_2^* Fd_2 )
 8.60707750E-01 2 -5 5 # BR(hh_1 -> Fd_3^* Fd_3 )
 3.03703612E-09 2 -2 2 # BR(hh_1 -> Fu_1^* Fu_1 )
 7.21128743E-04 2 -4 4 # BR(hh_1 -> Fu_2^* Fu_2 )
DECAY 35 2.48101766E-06 # hh_2
# BR NDA ID1 ID2
 8.53184719E-06 2 22 22 # BR(hh_2 -> VP VP )
 2.88621290E-03 2 21 21 # BR(hh_2 -> VG VG )
 3.37980140E-05 2 24 -24 # BR(hh_2 -> Vwm^* Vwm_virt )
 1.05839340E-08 2 -11 11 # BR(hh_2 -> Cha_1^* Cha_1 )
 3.82963394E-27 2 -11 13 # BR(hh_2 -> Cha_1^* Cha_2 )
 1.75929534E-23 2 -11 15 # BR(hh_2 -> Cha_1^* Cha_3 )
 3.82963394E-27 2 -13 11 # BR(hh_2 -> Cha_2^* Cha_1 )
 4.72803915E-04 2 -13 13 # BR(hh_2 -> Cha_2^* Cha_2 )
 1.88383230E-22 2 -13 15 # BR(hh_2 -> Cha_2^* Cha_3 )
 1.75929534E-23 2 -15 11 # BR(hh_2 -> Cha_3^* Cha_1 )
 1.88383230E-22 2 -15 13 # BR(hh_2 -> Cha_3^* Cha_2 )
 1.36326485E-01 2 -15 15 # BR(hh_2 -> Cha_3^* Cha_3 )
 2.21818098E-23 2 12 12 # BR(hh_2 -> Chi_1 Chi_1 )
 3.55557663E-24 2 12 14 # BR(hh_2 -> Chi_1 Chi_2 )
 2.17930240E-21 2 12 16 # BR(hh_2 -> Chi_1 Chi_3 )
 3.29219361E-10 2 12 1000022 # BR(hh_2 -> Chi_1 Chi_4 )
 9.07674147E-12 2 12 1000023 # BR(hh_2 -> Chi_1 Chi_5 )

```

4.47419638E-10	2		12	1000025	# BR(hh_2 -> Chi_1 Chi_6)
8.73461805E-23	2		14	14	# BR(hh_2 -> Chi_2 Chi_2)
3.01014006E-21	2		14	16	# BR(hh_2 -> Chi_2 Chi_3)
2.21751912E-11	2		14	1000022	# BR(hh_2 -> Chi_2 Chi_4)
5.96898524E-10	2		14	1000023	# BR(hh_2 -> Chi_2 Chi_5)
1.75055333E-09	2		14	1000025	# BR(hh_2 -> Chi_2 Chi_6)
4.92794795E-21	2		16	16	# BR(hh_2 -> Chi_3 Chi_3)
7.90227836E-11	2		16	1000022	# BR(hh_2 -> Chi_3 Chi_4)
2.32297804E-09	2		16	1000023	# BR(hh_2 -> Chi_3 Chi_5)
5.00012858E-09	2		16	1000025	# BR(hh_2 -> Chi_3 Chi_6)
8.94831359E-07	2		-1	1	# BR(hh_2 -> Fd_1^* Fd_1)
3.21862523E-04	2		-3	3	# BR(hh_2 -> Fd_2^* Fd_2)
8.58253262E-01	2		-5	5	# BR(hh_2 -> Fd_3^* Fd_3)
7.14298851E-09	2		-2	2	# BR(hh_2 -> Fu_1^* Fu_1)
1.69612097E-03	2		-4	4	# BR(hh_2 -> Fu_2^* Fu_2)
DECAY	1000012	2.04816088E-06	# hh_3		
#	BR	NDA	ID1	ID2	
1.49209408E-05	2		22	22	# BR(hh_3 -> VP VP)
3.51833927E-03	2		21	21	# BR(hh_3 -> VG VG)
5.11549687E-05	2		24	-24	# BR(hh_3 -> Vwm^* Vwm_virt)
1.05728301E-08	2		-11	11	# BR(hh_3 -> Cha_1^* Cha_1)
9.04946944E-26	2		-11	13	# BR(hh_3 -> Cha_1^* Cha_2)
4.42965182E-23	2		-11	15	# BR(hh_3 -> Cha_1^* Cha_3)
9.04946944E-26	2		-13	11	# BR(hh_3 -> Cha_2^* Cha_1)
4.72307937E-04	2		-13	13	# BR(hh_3 -> Cha_2^* Cha_2)
6.60799312E-23	2		-13	15	# BR(hh_3 -> Cha_2^* Cha_3)
4.42965182E-23	2		-15	11	# BR(hh_3 -> Cha_3^* Cha_1)
6.60799312E-23	2		-15	13	# BR(hh_3 -> Cha_3^* Cha_2)
1.36188011E-01	2		-15	15	# BR(hh_3 -> Cha_3^* Cha_3)
1.87859866E-24	2		12	12	# BR(hh_3 -> Chi_1 Chi_1)
3.25342758E-21	2		12	14	# BR(hh_3 -> Chi_1 Chi_2)
8.66075510E-21	2		12	16	# BR(hh_3 -> Chi_1 Chi_3)
2.24119367E-12	2		12	1000022	# BR(hh_3 -> Chi_1 Chi_4)
3.16923185E-10	2		12	1000023	# BR(hh_3 -> Chi_1 Chi_5)
2.03832785E-09	2		12	1000025	# BR(hh_3 -> Chi_1 Chi_6)
1.18607999E-20	2		14	14	# BR(hh_3 -> Chi_2 Chi_2)
4.66081924E-21	2		14	16	# BR(hh_3 -> Chi_2 Chi_3)
3.13851064E-10	2		14	1000022	# BR(hh_3 -> Chi_2 Chi_4)
1.43761060E-10	2		14	1000023	# BR(hh_3 -> Chi_2 Chi_5)
7.42134514E-10	2		14	1000025	# BR(hh_3 -> Chi_2 Chi_6)
6.49203095E-22	2		16	16	# BR(hh_3 -> Chi_3 Chi_3)
1.37064350E-09	2		16	1000022	# BR(hh_3 -> Chi_3 Chi_4)
1.74245325E-18	2		16	1000023	# BR(hh_3 -> Chi_3 Chi_5)
4.14894412E-09	2		16	1000025	# BR(hh_3 -> Chi_3 Chi_6)
8.93892563E-07	2		-1	1	# BR(hh_3 -> Fd_1^* Fd_1)
3.21524850E-04	2		-3	3	# BR(hh_3 -> Fd_2^* Fd_2)
8.57449654E-01	2		-5	5	# BR(hh_3 -> Fd_3^* Fd_3)
8.35177254E-09	2		-2	2	# BR(hh_3 -> Fu_1^* Fu_1)
1.98316500E-03	2		-4	4	# BR(hh_3 -> Fu_2^* Fu_2)
DECAY	1000014	3.37429240E-03	# hh_4		
#	BR	NDA	ID1	ID2	
2.80511090E-03	2		22	22	# BR(hh_4 -> VP VP)
1.06219105E-01	2		21	21	# BR(hh_4 -> VG VG)
2.70672511E-02	2		23	23	# BR(hh_4 -> VZ VZ)
2.48600404E-01	2		24	-24	# BR(hh_4 -> Vwm^* Vwm_virt)
5.80654559E-09	2		-11	11	# BR(hh_4 -> Cha_1^* Cha_1)
3.83610557E-29	2		-11	13	# BR(hh_4 -> Cha_1^* Cha_2)
2.59626720E-25	2		-11	15	# BR(hh_4 -> Cha_1^* Cha_3)
3.83610557E-29	2		-13	11	# BR(hh_4 -> Cha_2^* Cha_1)
2.59390141E-04	2		-13	13	# BR(hh_4 -> Cha_2^* Cha_2)
1.18432016E-24	2		-13	15	# BR(hh_4 -> Cha_2^* Cha_3)
2.59626720E-25	2		-15	11	# BR(hh_4 -> Cha_3^* Cha_1)
1.18432016E-24	2		-15	13	# BR(hh_4 -> Cha_3^* Cha_2)
7.48735006E-02	2		-15	15	# BR(hh_4 -> Cha_3^* Cha_3)
6.18949572E-24	2		12	12	# BR(hh_4 -> Chi_1 Chi_1)
4.13192003E-24	2		12	14	# BR(hh_4 -> Chi_1 Chi_2)
7.03254842E-24	2		12	16	# BR(hh_4 -> Chi_1 Chi_3)
3.22025578E-12	2		12	1000022	# BR(hh_4 -> Chi_1 Chi_4)
6.19636182E-12	2		12	1000023	# BR(hh_4 -> Chi_1 Chi_5)
1.66007022E-16	2		12	1000025	# BR(hh_4 -> Chi_1 Chi_6)
1.15754636E-22	2		14	14	# BR(hh_4 -> Chi_2 Chi_2)
3.25163401E-23	2		14	16	# BR(hh_4 -> Chi_2 Chi_3)
9.22394355E-12	2		14	1000022	# BR(hh_4 -> Chi_2 Chi_4)

2.95268639E-12	2	14	1000023	# BR(hh_4 -> Chi_2 Chi_5)
2.29919710E-12	2	14	1000025	# BR(hh_4 -> Chi_2 Chi_6)
4.82886408E-22	2	16	16	# BR(hh_4 -> Chi_3 Chi_3)
2.60375789E-11	2	16	1000022	# BR(hh_4 -> Chi_3 Chi_4)
1.97164288E-11	2	16	1000023	# BR(hh_4 -> Chi_3 Chi_5)
2.96316666E-12	2	16	1000025	# BR(hh_4 -> Chi_3 Chi_6)
2.52926023E-03	2	1000022	1000022	# BR(hh_4 -> Chi_4 Chi_4)
2.05618748E-05	2	1000022	1000023	# BR(hh_4 -> Chi_4 Chi_5)
2.10032565E-03	2	1000022	1000025	# BR(hh_4 -> Chi_4 Chi_6)
2.86594940E-03	2	1000023	1000023	# BR(hh_4 -> Chi_5 Chi_5)
2.14475361E-03	2	1000023	1000025	# BR(hh_4 -> Chi_5 Chi_6)
3.51285857E-02	2	1000025	1000025	# BR(hh_4 -> Chi_6 Chi_6)
4.90921340E-07	2	-1	1	# BR(hh_4 -> Fd_1^* Fd_1)
1.76579899E-04	2	-3	3	# BR(hh_4 -> Fd_2^* Fd_2)
4.72550017E-01	2	-5	5	# BR(hh_4 -> Fd_3^* Fd_3)
9.54007195E-08	2	-2	2	# BR(hh_4 -> Fu_1^* Fu_1)
2.26586124E-02	2	-4	4	# BR(hh_4 -> Fu_2^* Fu_2)
DECAY	1000016	3.68257113E-04	# hh_5	
#	BR	NDA	ID1	ID2
8.29538587E-13	2	22	22	# BR(hh_5 -> VP VP)
9.69435129E-11	2	21	21	# BR(hh_5 -> VG VG)
6.91615669E-10	2	36	36	# BR(hh_5 -> Ah_2 Ah_2)
2.13552538E-12	2	36	1000017	# BR(hh_5 -> Ah_2 Ah_3)
2.40417352E-11	2	36	1000018	# BR(hh_5 -> Ah_2 Ah_4)
8.15401217E-10	2	36	23	# BR(hh_5 -> Ah_2 VZ)
7.87291808E-12	2	1000017	23	# BR(hh_5 -> Ah_3 VZ)
1.05183204E-10	2	1000018	23	# BR(hh_5 -> Ah_4 VZ)
2.19245581E-18	2	-11	11	# BR(hh_5 -> Cha_1^* Cha_1)
4.80288163E-13	2	-11	15	# BR(hh_5 -> Cha_1^* Cha_3)
9.79416856E-14	2	-13	13	# BR(hh_5 -> Cha_2^* Cha_2)
2.01260048E-12	2	-13	15	# BR(hh_5 -> Cha_2^* Cha_3)
4.80288163E-13	2	-15	11	# BR(hh_5 -> Cha_3^* Cha_1)
2.01260048E-12	2	-15	13	# BR(hh_5 -> Cha_3^* Cha_2)
3.67560299E-11	2	-15	15	# BR(hh_5 -> Cha_3^* Cha_3)
1.84297436E-13	2	12	12	# BR(hh_5 -> Chi_1 Chi_1)
1.21018542E-11	2	12	14	# BR(hh_5 -> Chi_1 Chi_2)
2.02720280E-11	2	12	16	# BR(hh_5 -> Chi_1 Chi_3)
1.11421579E-03	2	12	1000022	# BR(hh_5 -> Chi_1 Chi_4)
1.29895011E-03	2	12	1000023	# BR(hh_5 -> Chi_1 Chi_5)
2.58576731E-01	2	12	1000025	# BR(hh_5 -> Chi_1 Chi_6)
4.23856280E-11	2	14	14	# BR(hh_5 -> Chi_2 Chi_2)
7.53364903E-11	2	14	16	# BR(hh_5 -> Chi_2 Chi_3)
2.59711648E-03	2	14	1000022	# BR(hh_5 -> Chi_2 Chi_4)
3.02771220E-03	2	14	1000023	# BR(hh_5 -> Chi_2 Chi_5)
6.02714387E-01	2	14	1000025	# BR(hh_5 -> Chi_2 Chi_6)
1.84087496E-11	2	16	16	# BR(hh_5 -> Chi_3 Chi_3)
5.57858900E-04	2	16	1000022	# BR(hh_5 -> Chi_3 Chi_4)
6.50350586E-04	2	16	1000023	# BR(hh_5 -> Chi_3 Chi_5)
1.29462653E-01	2	16	1000025	# BR(hh_5 -> Chi_3 Chi_6)
3.17905217E-14	2	1000022	1000022	# BR(hh_5 -> Chi_4 Chi_4)
1.41399562E-11	2	1000022	1000023	# BR(hh_5 -> Chi_4 Chi_5)
1.46697119E-12	2	1000022	1000025	# BR(hh_5 -> Chi_4 Chi_6)
7.65362072E-11	2	1000023	1000023	# BR(hh_5 -> Chi_5 Chi_5)
9.43285672E-11	2	1000023	1000025	# BR(hh_5 -> Chi_5 Chi_6)
6.21253486E-10	2	1000025	1000025	# BR(hh_5 -> Chi_6 Chi_6)
1.85363799E-16	2	-1	1	# BR(hh_5 -> Fd_1^* Fd_1)
6.66736640E-14	2	-3	3	# BR(hh_5 -> Fd_2^* Fd_2)
1.78810682E-10	2	-5	5	# BR(hh_5 -> Fd_3^* Fd_3)
3.02778524E-17	2	-2	2	# BR(hh_5 -> Fu_1^* Fu_1)
7.19229650E-12	2	-4	4	# BR(hh_5 -> Fu_2^* Fu_2)
3.84514550E-10	2	25	25	# BR(hh_5 -> hh_1 hh_1)
2.59222637E-11	2	25	35	# BR(hh_5 -> hh_1 hh_2)
9.39680672E-11	2	25	1000012	# BR(hh_5 -> hh_1 hh_3)
1.03371403E-11	2	35	35	# BR(hh_5 -> hh_2 hh_2)
7.14507594E-12	2	35	1000012	# BR(hh_5 -> hh_2 hh_3)
1.60754202E-12	2	1000012	1000012	# BR(hh_5 -> hh_3 hh_3)
1.57297159E-08	2	-24	24	# BR(hh_5 -> VWm VWm^*)
5.28002841E-09	2	23	23	# BR(hh_5 -> VZ VZ)
DECAY	2000012	8.29616474E-03	# hh_6	
#	BR	NDA	ID1	ID2
2.49700672E-14	2	22	22	# BR(hh_6 -> VP VP)
1.68315068E-11	2	21	21	# BR(hh_6 -> VG VG)
1.01688636E-11	2	36	36	# BR(hh_6 -> Ah_2 Ah_2)

1.28344464E-12	2	36	1000017	# BR(hh_6 -> Ah_2 Ah_3)
1.16757801E-12	2	36	1000018	# BR(hh_6 -> Ah_2 Ah_4)
1.16423829E-21	2	36	1000019	# BR(hh_6 -> Ah_2 Ah_5)
4.54665285E-13	2	1000017	1000017	# BR(hh_6 -> Ah_3 Ah_3)
2.17435725E-13	2	1000017	1000018	# BR(hh_6 -> Ah_3 Ah_4)
2.51027665E-21	2	1000017	1000019	# BR(hh_6 -> Ah_3 Ah_5)
4.45112695E-13	2	1000018	1000018	# BR(hh_6 -> Ah_4 Ah_4)
7.95669246E-21	2	1000018	1000019	# BR(hh_6 -> Ah_4 Ah_5)
1.29321473E-11	2	1000019	1000019	# BR(hh_6 -> Ah_5 Ah_5)
7.28094889E-10	2	36	23	# BR(hh_6 -> Ah_2 VZ)
8.03600693E-10	2	1000017	23	# BR(hh_6 -> Ah_3 VZ)
7.84380021E-10	2	1000018	23	# BR(hh_6 -> Ah_4 VZ)
2.51818266E-21	2	1000019	23	# BR(hh_6 -> Ah_5 VZ)
4.06623656E-20	2	-11	11	# BR(hh_6 -> Cha_1^* Cha_1)
1.57091071E-16	2	-11	13	# BR(hh_6 -> Cha_1^* Cha_2)
2.24556661E-27	2	-11	-1000024	# BR(hh_6 -> Cha_1^* Cha_4)
1.57091071E-16	2	-13	11	# BR(hh_6 -> Cha_2^* Cha_1)
6.81553439E-15	2	-13	13	# BR(hh_6 -> Cha_2^* Cha_2)
3.31506652E-15	2	-13	15	# BR(hh_6 -> Cha_2^* Cha_3)
2.66929353E-01	2	-13	-1000024	# BR(hh_6 -> Cha_2^* Cha_4)
3.31506652E-15	2	-15	13	# BR(hh_6 -> Cha_3^* Cha_2)
5.24905079E-13	2	-15	15	# BR(hh_6 -> Cha_3^* Cha_3)
1.31090463E-23	2	-15	-1000024	# BR(hh_6 -> Cha_3^* Cha_4)
2.24556661E-27	2	1000024	11	# BR(hh_6 -> Cha_4^* Cha_1)
2.66929353E-01	2	1000024	13	# BR(hh_6 -> Cha_4^* Cha_2)
1.31090463E-23	2	1000024	15	# BR(hh_6 -> Cha_4^* Cha_3)
4.34632811E-15	2	12	12	# BR(hh_6 -> Chi_1 Chi_1)
2.61399837E-13	2	12	14	# BR(hh_6 -> Chi_1 Chi_2)
2.38664400E-13	2	12	16	# BR(hh_6 -> Chi_1 Chi_3)
2.93546418E-05	2	12	1000022	# BR(hh_6 -> Chi_1 Chi_4)
3.44052090E-05	2	12	1000023	# BR(hh_6 -> Chi_1 Chi_5)
7.12085781E-03	2	12	1000025	# BR(hh_6 -> Chi_1 Chi_6)
2.06915288E-02	2	12	1000039	# BR(hh_6 -> Chi_1 Chi_7)
2.48151745E-03	2	12	1000045	# BR(hh_6 -> Chi_1 Chi_8)
4.58751437E-13	2	14	14	# BR(hh_6 -> Chi_2 Chi_2)
1.01359419E-12	2	14	16	# BR(hh_6 -> Chi_2 Chi_3)
3.14017970E-05	2	14	1000022	# BR(hh_6 -> Chi_2 Chi_4)
3.68045844E-05	2	14	1000023	# BR(hh_6 -> Chi_2 Chi_5)
7.61745737E-03	2	14	1000025	# BR(hh_6 -> Chi_2 Chi_6)
2.21345297E-02	2	14	1000039	# BR(hh_6 -> Chi_2 Chi_7)
2.65457531E-03	2	14	1000045	# BR(hh_6 -> Chi_2 Chi_8)
1.15197181E-11	2	16	16	# BR(hh_6 -> Chi_3 Chi_3)
3.89983461E-04	2	16	1000022	# BR(hh_6 -> Chi_3 Chi_4)
4.57081460E-04	2	16	1000023	# BR(hh_6 -> Chi_3 Chi_5)
9.46023054E-02	2	16	1000025	# BR(hh_6 -> Chi_3 Chi_6)
2.74891927E-01	2	16	1000039	# BR(hh_6 -> Chi_3 Chi_7)
3.29675550E-02	2	16	1000045	# BR(hh_6 -> Chi_3 Chi_8)
7.69690657E-13	2	1000022	1000022	# BR(hh_6 -> Chi_4 Chi_4)
3.28012173E-12	2	1000022	1000023	# BR(hh_6 -> Chi_4 Chi_5)
1.05231921E-11	2	1000022	1000025	# BR(hh_6 -> Chi_4 Chi_6)
5.29963252E-12	2	1000022	1000039	# BR(hh_6 -> Chi_4 Chi_7)
2.01910272E-12	2	1000022	1000045	# BR(hh_6 -> Chi_4 Chi_8)
3.33439395E-12	2	1000023	1000023	# BR(hh_6 -> Chi_5 Chi_5)
2.45608002E-11	2	1000023	1000025	# BR(hh_6 -> Chi_5 Chi_6)
2.95665142E-12	2	1000023	1000039	# BR(hh_6 -> Chi_5 Chi_7)
1.26064836E-11	2	1000023	1000045	# BR(hh_6 -> Chi_5 Chi_8)
5.29220138E-11	2	1000025	1000025	# BR(hh_6 -> Chi_6 Chi_6)
2.17731164E-11	2	1000025	1000039	# BR(hh_6 -> Chi_6 Chi_7)
2.11367740E-10	2	1000025	1000045	# BR(hh_6 -> Chi_6 Chi_8)
3.43784832E-18	2	-1	1	# BR(hh_6 -> Fd_1^* Fd_1)
1.23656260E-15	2	-3	3	# BR(hh_6 -> Fd_2^* Fd_2)
3.31963225E-12	2	-5	5	# BR(hh_6 -> Fd_3^* Fd_3)
4.80106450E-19	2	-2	2	# BR(hh_6 -> Fu_1^* Fu_1)
1.14053021E-13	2	-4	4	# BR(hh_6 -> Fu_2^* Fu_2)
2.16000745E-09	2	-6	6	# BR(hh_6 -> Fu_3^* Fu_3)
2.01641727E-11	2	25	25	# BR(hh_6 -> hh_1 hh_1)
8.93402730E-12	2	25	35	# BR(hh_6 -> hh_1 hh_2)
1.37742068E-12	2	25	1000012	# BR(hh_6 -> hh_1 hh_3)
8.64815823E-10	2	25	1000014	# BR(hh_6 -> hh_1 hh_4)
2.29081229E-20	2	25	1000016	# BR(hh_6 -> hh_1 hh_5)
1.20907750E-13	2	35	35	# BR(hh_6 -> hh_2 hh_2)
4.11429143E-15	2	35	1000012	# BR(hh_6 -> hh_2 hh_3)
1.13420799E-09	2	35	1000014	# BR(hh_6 -> hh_2 hh_4)

2.47101179E-20	2	35	1000016	# BR(hh_6 -> hh_2 hh_5)
3.73902283E-13	2	1000012	1000012	# BR(hh_6 -> hh_3 hh_3)
6.06508198E-10	2	1000012	1000014	# BR(hh_6 -> hh_3 hh_4)
5.78594781E-21	2	1000012	1000016	# BR(hh_6 -> hh_3 hh_5)
2.63102891E-10	2	1000014	1000014	# BR(hh_6 -> hh_4 hh_4)
2.17315360E-20	2	1000014	1000016	# BR(hh_6 -> hh_4 hh_5)
1.29321473E-11	2	1000016	1000016	# BR(hh_6 -> hh_5 hh_5)
1.80702902E-22	2	37	24	# BR(hh_6 -> Hpm_2 Vwm^*)
1.80702902E-22	2	-37	-24	# BR(hh_6 -> Hpm_2^* Vwm)
1.94455870E-10	2	-24	24	# BR(hh_6 -> Vwm Vwm^*)
9.15814692E-11	2	23	23	# BR(hh_6 -> VZ VZ)
DECAY 2000014	3.07948963E-02	# hh_7		
# BR	NDA	ID1	ID2	
1.81891470E-15	2	22	22	# BR(hh_7 -> VP VP)
9.25811699E-13	2	21	21	# BR(hh_7 -> VG VG)
5.11479753E-13	2	36	36	# BR(hh_7 -> Ah_2 Ah_2)
2.01565951E-13	2	36	1000017	# BR(hh_7 -> Ah_2 Ah_3)
1.39407575E-14	2	36	1000018	# BR(hh_7 -> Ah_2 Ah_4)
4.57331549E-22	2	36	1000019	# BR(hh_7 -> Ah_2 Ah_5)
6.75129300E-23	2	36	2000018	# BR(hh_7 -> Ah_2 Ah_6)
2.53401882E-14	2	1000017	1000017	# BR(hh_7 -> Ah_3 Ah_3)
1.57467177E-15	2	1000017	1000018	# BR(hh_7 -> Ah_3 Ah_4)
1.38453918E-21	2	1000017	1000019	# BR(hh_7 -> Ah_3 Ah_5)
8.37657796E-22	2	1000017	2000018	# BR(hh_7 -> Ah_3 Ah_6)
3.79532506E-15	2	1000018	1000018	# BR(hh_7 -> Ah_4 Ah_4)
2.15000171E-22	2	1000018	1000019	# BR(hh_7 -> Ah_4 Ah_5)
1.71087362E-24	2	1000018	2000018	# BR(hh_7 -> Ah_4 Ah_6)
6.33067893E-13	2	1000019	1000019	# BR(hh_7 -> Ah_5 Ah_5)
1.28257425E-10	2	36	23	# BR(hh_7 -> Ah_2 VZ)
2.69551053E-10	2	1000017	23	# BR(hh_7 -> Ah_3 VZ)
1.94768416E-11	2	1000018	23	# BR(hh_7 -> Ah_4 VZ)
2.06581743E-22	2	1000019	23	# BR(hh_7 -> Ah_5 VZ)
2.37549940E-23	2	2000018	23	# BR(hh_7 -> Ah_6 VZ)
1.31342358E-20	2	-11	11	# BR(hh_7 -> Cha_1^* Cha_1)
2.92191935E-18	2	-11	13	# BR(hh_7 -> Cha_1^* Cha_2)
1.43251848E-15	2	-11	15	# BR(hh_7 -> Cha_1^* Cha_3)
2.74647845E-01	2	-11	-1000024	# BR(hh_7 -> Cha_1^* Cha_4)
2.92191935E-18	2	-13	11	# BR(hh_7 -> Cha_2^* Cha_1)
1.34193620E-16	2	-13	13	# BR(hh_7 -> Cha_2^* Cha_2)
1.84647936E-25	2	-13	-1000024	# BR(hh_7 -> Cha_2^* Cha_4)
1.43251848E-15	2	-15	11	# BR(hh_7 -> Cha_3^* Cha_1)
3.87803616E-14	2	-15	15	# BR(hh_7 -> Cha_3^* Cha_3)
2.67836392E-24	2	-15	-1000024	# BR(hh_7 -> Cha_3^* Cha_4)
2.74647845E-01	2	1000024	11	# BR(hh_7 -> Cha_4^* Cha_1)
1.84647936E-25	2	1000024	13	# BR(hh_7 -> Cha_4^* Cha_2)
2.67836392E-24	2	1000024	15	# BR(hh_7 -> Cha_4^* Cha_3)
5.20982755E-13	2	1000024	-1000024	# BR(hh_7 -> Cha_4^* Cha_4)
1.96575810E-14	2	12	12	# BR(hh_7 -> Chi_1 Chi_1)
8.39511640E-13	2	12	14	# BR(hh_7 -> Chi_1 Chi_2)
1.98265043E-12	2	12	16	# BR(hh_7 -> Chi_1 Chi_3)
1.35287932E-04	2	12	1000022	# BR(hh_7 -> Chi_1 Chi_4)
1.58704125E-04	2	12	1000023	# BR(hh_7 -> Chi_1 Chi_5)
3.30550942E-02	2	12	1000025	# BR(hh_7 -> Chi_1 Chi_6)
2.37075209E-01	2	12	1000039	# BR(hh_7 -> Chi_1 Chi_7)
3.32984162E-02	2	12	1000045	# BR(hh_7 -> Chi_1 Chi_8)
9.26763444E-13	2	14	14	# BR(hh_7 -> Chi_2 Chi_2)
7.93771990E-13	2	14	16	# BR(hh_7 -> Chi_2 Chi_3)
6.46428755E-05	2	14	1000022	# BR(hh_7 -> Chi_2 Chi_4)
7.58315313E-05	2	14	1000023	# BR(hh_7 -> Chi_2 Chi_5)
1.57942864E-02	2	14	1000025	# BR(hh_7 -> Chi_2 Chi_6)
1.13278568E-01	2	14	1000039	# BR(hh_7 -> Chi_2 Chi_7)
1.59105498E-02	2	14	1000045	# BR(hh_7 -> Chi_2 Chi_8)
2.39873806E-14	2	16	16	# BR(hh_7 -> Chi_3 Chi_3)
8.27488320E-07	2	16	1000022	# BR(hh_7 -> Chi_3 Chi_4)
9.70713407E-07	2	16	1000023	# BR(hh_7 -> Chi_3 Chi_5)
2.02181407E-04	2	16	1000025	# BR(hh_7 -> Chi_3 Chi_6)
1.45006996E-03	2	16	1000039	# BR(hh_7 -> Chi_3 Chi_7)
2.03669685E-04	2	16	1000045	# BR(hh_7 -> Chi_3 Chi_8)
5.61943959E-13	2	1000022	1000022	# BR(hh_7 -> Chi_4 Chi_4)
1.27143954E-13	2	1000022	1000023	# BR(hh_7 -> Chi_4 Chi_5)
3.31737901E-12	2	1000022	1000025	# BR(hh_7 -> Chi_4 Chi_6)
3.13427362E-12	2	1000022	1000039	# BR(hh_7 -> Chi_4 Chi_7)
4.98895856E-12	2	1000022	1000045	# BR(hh_7 -> Chi_4 Chi_8)

4.03966195E-15	2	1000023	1000023	# BR(hh_7 -> Chi_5 Chi_5)	
3.48884029E-13	2	1000023	1000025	# BR(hh_7 -> Chi_5 Chi_6)	
9.88319380E-14	2	1000023	1000039	# BR(hh_7 -> Chi_5 Chi_7)	
7.07757590E-13	2	1000023	1000045	# BR(hh_7 -> Chi_5 Chi_8)	
4.06594139E-12	2	1000025	1000025	# BR(hh_7 -> Chi_6 Chi_6)	
3.24778861E-12	2	1000025	1000039	# BR(hh_7 -> Chi_6 Chi_7)	
3.30896225E-11	2	1000025	1000045	# BR(hh_7 -> Chi_6 Chi_8)	
2.96504789E-13	2	1000039	1000039	# BR(hh_7 -> Chi_7 Chi_7)	
1.25124516E-12	2	1000039	1000045	# BR(hh_7 -> Chi_7 Chi_8)	
1.47943106E-12	2	1000045	1000045	# BR(hh_7 -> Chi_8 Chi_8)	
2.53973578E-19	2	-1	1	# BR(hh_7 -> Fd_1^* Fd_1)	
9.13519677E-17	2	-3	3	# BR(hh_7 -> Fd_2^* Fd_2)	
2.45275415E-13	2	-5	5	# BR(hh_7 -> Fd_3^* Fd_3)	
2.37210978E-20	2	-2	2	# BR(hh_7 -> Fu_1^* Fu_1)	
5.63517565E-15	2	-4	4	# BR(hh_7 -> Fu_2^* Fu_2)	
3.15258177E-10	2	-6	6	# BR(hh_7 -> Fu_3^* Fu_3)	
2.03337605E-12	2	25	25	# BR(hh_7 -> hh_1 hh_1)	
4.42286428E-13	2	25	35	# BR(hh_7 -> hh_1 hh_2)	
2.32704501E-15	2	25	1000012	# BR(hh_7 -> hh_1 hh_3)	
1.95099790E-10	2	25	1000014	# BR(hh_7 -> hh_1 hh_4)	
4.65286966E-21	2	25	1000016	# BR(hh_7 -> hh_1 hh_5)	
8.43328462E-22	2	25	2000012	# BR(hh_7 -> hh_1 hh_6)	
5.93426422E-14	2	35	35	# BR(hh_7 -> hh_2 hh_2)	
2.83745908E-14	2	35	1000012	# BR(hh_7 -> hh_2 hh_3)	
2.22355754E-10	2	35	1000014	# BR(hh_7 -> hh_2 hh_4)	
4.55670869E-21	2	35	1000016	# BR(hh_7 -> hh_2 hh_5)	
2.29002480E-22	2	35	2000012	# BR(hh_7 -> hh_2 hh_6)	
1.15173347E-14	2	1000012	1000012	# BR(hh_7 -> hh_3 hh_3)	
1.57402884E-11	2	1000012	1000014	# BR(hh_7 -> hh_3 hh_4)	
1.76284976E-22	2	1000012	1000016	# BR(hh_7 -> hh_3 hh_5)	
1.44011025E-22	2	1000012	2000012	# BR(hh_7 -> hh_3 hh_6)	
3.87085752E-12	2	1000014	1000014	# BR(hh_7 -> hh_4 hh_4)	
4.64024515E-22	2	1000014	1000016	# BR(hh_7 -> hh_4 hh_5)	
6.31578089E-23	2	1000014	2000012	# BR(hh_7 -> hh_4 hh_6)	
6.33067893E-13	2	1000016	1000016	# BR(hh_7 -> hh_5 hh_5)	
3.71042410E-13	2	-37	37	# BR(hh_7 -> Hpm_2^* Hpm_2)	
2.71891129E-23	2	37	24	# BR(hh_7 -> Hpm_2 Vwm^*)	
2.71891129E-23	2	-37	-24	# BR(hh_7 -> Hpm_2^* Vwm)	
8.20590223E-24	2	1000011	24	# BR(hh_7 -> Hpm_3 Vwm^*)	
8.20590223E-24	2	-1000011	-24	# BR(hh_7 -> Hpm_3^* Vwm)	
5.79682263E-12	2	-24	24	# BR(hh_7 -> Vwm Vwm^*)	
2.83802384E-12	2	23	23	# BR(hh_7 -> VZ VZ)	
DECAY	2000016	1.74940723E+01	# hh_8		
#	BR	NDA	ID1	ID2	
1.08415889E-06	2		22	22	# BR(hh_8 -> VP VP)
3.11207978E-04	2		21	21	# BR(hh_8 -> VG VG)
6.34515118E-06	2		36	36	# BR(hh_8 -> Ah_2 Ah_2)
3.67116884E-09	2		36	1000017	# BR(hh_8 -> Ah_2 Ah_3)
3.68437842E-09	2		36	1000018	# BR(hh_8 -> Ah_2 Ah_4)
8.95260211E-13	2		36	1000019	# BR(hh_8 -> Ah_2 Ah_5)
3.68093925E-13	2		36	2000018	# BR(hh_8 -> Ah_2 Ah_6)
2.33017114E-14	2		36	2000019	# BR(hh_8 -> Ah_2 Ah_7)
1.57522815E-05	2	1000017	1000017	1000017	# BR(hh_8 -> Ah_3 Ah_3)
1.40892959E-14	2	1000017	1000018	1000018	# BR(hh_8 -> Ah_3 Ah_4)
7.19595976E-17	2	1000017	1000019	1000019	# BR(hh_8 -> Ah_3 Ah_5)
2.68234596E-15	2	1000017	2000018	2000018	# BR(hh_8 -> Ah_3 Ah_6)
7.07295519E-15	2	1000017	2000019	2000019	# BR(hh_8 -> Ah_3 Ah_7)
1.64669509E-05	2	1000018	1000018	1000018	# BR(hh_8 -> Ah_4 Ah_4)
1.62664698E-15	2	1000018	1000019	1000019	# BR(hh_8 -> Ah_4 Ah_5)
3.05990326E-15	2	1000018	2000018	2000018	# BR(hh_8 -> Ah_4 Ah_6)
5.33204131E-16	2	1000018	2000019	2000019	# BR(hh_8 -> Ah_4 Ah_7)
1.06094408E-04	2	1000019	1000019	1000019	# BR(hh_8 -> Ah_5 Ah_5)
9.20179975E-25	2	1000019	2000018	2000018	# BR(hh_8 -> Ah_5 Ah_6)
8.05993597E-26	2	1000019	2000019	2000019	# BR(hh_8 -> Ah_5 Ah_7)
8.28492455E-05	2	2000018	2000018	2000018	# BR(hh_8 -> Ah_6 Ah_6)
2.14587483E-26	2	2000018	2000019	2000019	# BR(hh_8 -> Ah_6 Ah_7)
1.88180055E-01	2	36	23		# BR(hh_8 -> Ah_2 VZ)
1.94057807E-06	2	1000017	23		# BR(hh_8 -> Ah_3 VZ)
1.93743919E-06	2	1000018	23		# BR(hh_8 -> Ah_4 VZ)
9.32989037E-14	2	1000019	23		# BR(hh_8 -> Ah_5 VZ)
3.01342936E-14	2	2000018	23		# BR(hh_8 -> Ah_6 VZ)
1.77892822E-15	2	2000019	23		# BR(hh_8 -> Ah_7 VZ)
1.95677498E-10	2	-11	11		# BR(hh_8 -> Cha_1^* Cha_1)

9.92016042E-30	2	-11	13	# BR(hh_8 -> Cha_1^* Cha_2)
5.55008197E-27	2	-11	15	# BR(hh_8 -> Cha_1^* Cha_3)
1.73586697E-17	2	-11	-1000024	# BR(hh_8 -> Cha_1^* Cha_4)
9.92016042E-30	2	-13	11	# BR(hh_8 -> Cha_2^* Cha_1)
8.74134678E-06	2	-13	13	# BR(hh_8 -> Cha_2^* Cha_2)
2.33559498E-26	2	-13	15	# BR(hh_8 -> Cha_2^* Cha_3)
1.32238048E-17	2	-13	-1000024	# BR(hh_8 -> Cha_2^* Cha_4)
5.55008197E-27	2	-15	11	# BR(hh_8 -> Cha_3^* Cha_1)
2.33559498E-26	2	-15	13	# BR(hh_8 -> Cha_3^* Cha_2)
2.52621845E-03	2	-15	15	# BR(hh_8 -> Cha_3^* Cha_3)
1.63222111E-16	2	-15	-1000024	# BR(hh_8 -> Cha_3^* Cha_4)
1.73586697E-17	2	1000024	11	# BR(hh_8 -> Cha_4^* Cha_1)
1.32238048E-17	2	1000024	13	# BR(hh_8 -> Cha_4^* Cha_2)
1.63222111E-16	2	1000024	15	# BR(hh_8 -> Cha_4^* Cha_3)
6.06168686E-03	2	1000024	-1000024	# BR(hh_8 -> Cha_4^* Cha_4)
6.07452940E-28	2	12	12	# BR(hh_8 -> Chi_1 Chi_1)
1.60796096E-28	2	12	14	# BR(hh_8 -> Chi_1 Chi_2)
2.58197803E-28	2	12	16	# BR(hh_8 -> Chi_1 Chi_3)
4.11437878E-16	2	12	1000022	# BR(hh_8 -> Chi_1 Chi_4)
8.00461839E-16	2	12	1000023	# BR(hh_8 -> Chi_1 Chi_5)
2.81724185E-18	2	12	1000025	# BR(hh_8 -> Chi_1 Chi_6)
6.82661240E-17	2	12	1000039	# BR(hh_8 -> Chi_1 Chi_7)
1.02481959E-16	2	12	1000045	# BR(hh_8 -> Chi_1 Chi_8)
1.56951700E-15	2	12	1000055	# BR(hh_8 -> Chi_1 Chi_9)
4.26857651E-28	2	14	14	# BR(hh_8 -> Chi_2 Chi_2)
1.30227372E-26	2	14	16	# BR(hh_8 -> Chi_2 Chi_3)
1.09859463E-15	2	14	1000022	# BR(hh_8 -> Chi_2 Chi_4)
4.22268214E-16	2	14	1000023	# BR(hh_8 -> Chi_2 Chi_5)
1.09322662E-15	2	14	1000025	# BR(hh_8 -> Chi_2 Chi_6)
3.71011248E-16	2	14	1000039	# BR(hh_8 -> Chi_2 Chi_7)
3.95868793E-15	2	14	1000045	# BR(hh_8 -> Chi_2 Chi_8)
2.40512327E-16	2	14	1000055	# BR(hh_8 -> Chi_2 Chi_9)
2.61437116E-27	2	16	16	# BR(hh_8 -> Chi_3 Chi_3)
3.49245897E-15	2	16	1000022	# BR(hh_8 -> Chi_3 Chi_4)
2.34702640E-15	2	16	1000023	# BR(hh_8 -> Chi_3 Chi_5)
2.09069956E-15	2	16	1000025	# BR(hh_8 -> Chi_3 Chi_6)
1.21618930E-15	2	16	1000039	# BR(hh_8 -> Chi_3 Chi_7)
7.63243950E-15	2	16	1000045	# BR(hh_8 -> Chi_3 Chi_8)
4.07211705E-15	2	16	1000055	# BR(hh_8 -> Chi_3 Chi_9)
2.45890348E-05	2	1000022	1000022	# BR(hh_8 -> Chi_4 Chi_4)
3.02640087E-06	2	1000022	1000023	# BR(hh_8 -> Chi_4 Chi_5)
6.16232593E-04	2	1000022	1000025	# BR(hh_8 -> Chi_4 Chi_6)
8.06958837E-04	2	1000022	1000039	# BR(hh_8 -> Chi_4 Chi_7)
3.37795457E-04	2	1000022	1000045	# BR(hh_8 -> Chi_4 Chi_8)
1.62386459E-07	2	1000022	1000055	# BR(hh_8 -> Chi_4 Chi_9)
2.41175616E-05	2	1000023	1000023	# BR(hh_8 -> Chi_5 Chi_5)
7.20470795E-04	2	1000023	1000025	# BR(hh_8 -> Chi_5 Chi_6)
9.41130012E-04	2	1000023	1000039	# BR(hh_8 -> Chi_5 Chi_7)
3.94404308E-04	2	1000023	1000045	# BR(hh_8 -> Chi_5 Chi_8)
1.98781310E-07	2	1000023	1000055	# BR(hh_8 -> Chi_5 Chi_9)
6.94898222E-02	2	1000025	1000025	# BR(hh_8 -> Chi_6 Chi_6)
1.88269672E-01	2	1000025	1000039	# BR(hh_8 -> Chi_6 Chi_7)
7.94879918E-02	2	1000025	1000045	# BR(hh_8 -> Chi_6 Chi_8)
5.31822687E-05	2	1000025	1000055	# BR(hh_8 -> Chi_6 Chi_9)
3.68654641E-02	2	1000039	1000039	# BR(hh_8 -> Chi_7 Chi_7)
2.50035343E-02	2	1000039	1000045	# BR(hh_8 -> Chi_7 Chi_8)
5.33530483E-04	2	1000039	1000055	# BR(hh_8 -> Chi_7 Chi_9)
1.90960427E-03	2	1000045	1000045	# BR(hh_8 -> Chi_8 Chi_8)
1.20090831E-02	2	1000045	1000055	# BR(hh_8 -> Chi_8 Chi_9)
1.65437905E-08	2	-1	1	# BR(hh_8 -> Fd_1^* Fd_1)
5.95064906E-06	2	-3	3	# BR(hh_8 -> Fd_2^* Fd_2)
1.59780059E-02	2	-5	5	# BR(hh_8 -> Fd_3^* Fd_3)
1.07611973E-11	2	-2	2	# BR(hh_8 -> Fu_1^* Fu_1)
2.55643156E-06	2	-4	4	# BR(hh_8 -> Fu_2^* Fu_2)
1.85711268E-01	2	-6	6	# BR(hh_8 -> Fu_3^* Fu_3)
2.50747037E-07	2	25	25	# BR(hh_8 -> hh_1 hh_1)
8.40222776E-07	2	25	35	# BR(hh_8 -> hh_1 hh_2)
1.33736697E-06	2	25	1000012	# BR(hh_8 -> hh_1 hh_3)
1.77086001E-01	2	25	1000014	# BR(hh_8 -> hh_1 hh_4)
3.87872051E-12	2	25	1000016	# BR(hh_8 -> hh_1 hh_5)
5.82734687E-13	2	25	2000012	# BR(hh_8 -> hh_1 hh_6)
7.20563248E-14	2	25	2000014	# BR(hh_8 -> hh_1 hh_7)
2.37904906E-05	2	35	35	# BR(hh_8 -> hh_2 hh_2)

7.37996723E-08	2	35	1000012	# BR(hh_8 -> hh_2 hh_3)
2.12114630E-03	2	35	1000014	# BR(hh_8 -> hh_2 hh_4)
5.33410079E-14	2	35	1000016	# BR(hh_8 -> hh_2 hh_5)
2.06611082E-14	2	35	2000012	# BR(hh_8 -> hh_2 hh_6)
2.92927739E-15	2	35	2000014	# BR(hh_8 -> hh_2 hh_7)
2.50642296E-05	2	1000012	1000012	# BR(hh_8 -> hh_3 hh_3)
1.65952093E-03	2	1000012	1000014	# BR(hh_8 -> hh_3 hh_4)
6.37001650E-14	2	1000012	1000016	# BR(hh_8 -> hh_3 hh_5)
4.71314753E-16	2	1000012	2000012	# BR(hh_8 -> hh_3 hh_6)
5.68832287E-19	2	1000012	2000014	# BR(hh_8 -> hh_3 hh_7)
1.94097767E-03	2	1000014	1000014	# BR(hh_8 -> hh_4 hh_4)
8.43560719E-14	2	1000014	1000016	# BR(hh_8 -> hh_4 hh_5)
4.88773358E-14	2	1000014	2000012	# BR(hh_8 -> hh_4 hh_6)
5.81667086E-15	2	1000014	2000014	# BR(hh_8 -> hh_4 hh_7)
1.06094408E-04	2	1000016	1000016	# BR(hh_8 -> hh_5 hh_5)
3.55214935E-24	2	1000016	2000012	# BR(hh_8 -> hh_5 hh_6)
3.47775850E-25	2	1000016	2000014	# BR(hh_8 -> hh_5 hh_7)
8.28492455E-05	2	2000012	2000012	# BR(hh_8 -> hh_6 hh_6)
5.94186598E-26	2	2000012	2000014	# BR(hh_8 -> hh_6 hh_7)
6.18419535E-05	2	-37	37	# BR(hh_8 -> Hpm_2^* Hpm_2)
6.30289257E-27	2	-37	1000011	# BR(hh_8 -> Hpm_2^* Hpm_3)
2.45829201E-27	2	-37	2000011	# BR(hh_8 -> Hpm_2^* Hpm_4)
1.38292824E-04	2	-37	1000013	# BR(hh_8 -> Hpm_2^* Hpm_5)
2.38302161E-30	2	-37	2000013	# BR(hh_8 -> Hpm_2^* Hpm_6)
6.30289257E-27	2	-1000011	37	# BR(hh_8 -> Hpm_3^* Hpm_2)
4.94950754E-05	2	-1000011	1000011	# BR(hh_8 -> Hpm_3^* Hpm_3)
1.22267444E-27	2	-1000011	2000011	# BR(hh_8 -> Hpm_3^* Hpm_4)
2.45829201E-27	2	-2000011	37	# BR(hh_8 -> Hpm_4^* Hpm_2)
1.22267444E-27	2	-2000011	1000011	# BR(hh_8 -> Hpm_4^* Hpm_3)
1.38292824E-04	2	-1000013	37	# BR(hh_8 -> Hpm_5^* Hpm_2)
2.38302161E-30	2	-2000013	37	# BR(hh_8 -> Hpm_6^* Hpm_2)
1.16237744E-15	2	37	24	# BR(hh_8 -> Hpm_2 Vwm^*)
1.16237744E-15	2	-37	-24	# BR(hh_8 -> Hpm_2^* Vwm)
2.32534436E-15	2	1000011	24	# BR(hh_8 -> Hpm_3 Vwm^*)
2.32534436E-15	2	-1000011	-24	# BR(hh_8 -> Hpm_3^* Vwm)
1.17231547E-15	2	2000011	24	# BR(hh_8 -> Hpm_4 Vwm^*)
1.17231547E-15	2	-2000011	-24	# BR(hh_8 -> Hpm_4^* Vwm)
1.35420788E-15	2	1000013	24	# BR(hh_8 -> Hpm_5 Vwm^*)
1.35420788E-15	2	-1000013	-24	# BR(hh_8 -> Hpm_5^* Vwm)
3.98475124E-20	2	2000013	24	# BR(hh_8 -> Hpm_6 Vwm^*)
3.98475124E-20	2	-2000013	-24	# BR(hh_8 -> Hpm_6^* Vwm)
2.03516692E-25	2	1000015	24	# BR(hh_8 -> Hpm_7 Vwm^*)
2.03516692E-25	2	-1000015	-24	# BR(hh_8 -> Hpm_7^* Vwm)
3.66989654E-05	2	-24	24	# BR(hh_8 -> Vwm Vwm^*)
1.82761858E-05	2	23	23	# BR(hh_8 -> VZ VZ)
DECAY	36	9.67930568E-05	# Ah_2	
# BR	NDA	ID1	ID2	
1.86073395E-04	2	22	22	# BR(Ah_2 -> VP VP)
2.43742653E-03	2	21	21	# BR(Ah_2 -> VG VG)
1.05646579E-08	2	-11	11	# BR(Ah_2 -> Cha_1^* Cha_1)
1.19237850E-29	2	-11	13	# BR(Ah_2 -> Cha_1^* Cha_2)
1.42930213E-26	2	-11	15	# BR(Ah_2 -> Cha_1^* Cha_3)
1.19237850E-29	2	-13	11	# BR(Ah_2 -> Cha_2^* Cha_1)
4.71944607E-04	2	-13	13	# BR(Ah_2 -> Cha_2^* Cha_2)
6.17060915E-26	2	-13	15	# BR(Ah_2 -> Cha_2^* Cha_3)
1.42930213E-26	2	-15	11	# BR(Ah_2 -> Cha_3^* Cha_1)
6.17060915E-26	2	-15	13	# BR(Ah_2 -> Cha_3^* Cha_2)
1.36224579E-01	2	-15	15	# BR(Ah_2 -> Cha_3^* Cha_3)
2.98336674E-24	2	12	12	# BR(Ah_2 -> Chi_1 Chi_1)
2.37611067E-24	2	12	14	# BR(Ah_2 -> Chi_1 Chi_2)
4.54860289E-24	2	12	16	# BR(Ah_2 -> Chi_1 Chi_3)
2.62793721E-12	2	12	1000022	# BR(Ah_2 -> Chi_1 Chi_4)
4.61573645E-12	2	12	1000023	# BR(Ah_2 -> Chi_1 Chi_5)
4.82564432E-14	2	12	1000025	# BR(Ah_2 -> Chi_1 Chi_6)
1.26752291E-23	2	14	14	# BR(Ah_2 -> Chi_2 Chi_2)
3.30260182E-22	2	14	16	# BR(Ah_2 -> Chi_2 Chi_3)
8.21131416E-12	2	14	1000022	# BR(Ah_2 -> Chi_2 Chi_4)
2.01931460E-12	2	14	1000023	# BR(Ah_2 -> Chi_2 Chi_5)
2.20550544E-14	2	14	1000025	# BR(Ah_2 -> Chi_2 Chi_6)
6.61951288E-24	2	16	16	# BR(Ah_2 -> Chi_3 Chi_3)
2.11331927E-11	2	16	1000022	# BR(Ah_2 -> Chi_3 Chi_4)
1.57394050E-11	2	16	1000023	# BR(Ah_2 -> Chi_3 Chi_5)
3.61301504E-14	2	16	1000025	# BR(Ah_2 -> Chi_3 Chi_6)

8.93201631E-07	2	-1	1	# BR(Ah_2 -> Fd_1^* Fd_1)
3.21276514E-04	2	-3	3	# BR(Ah_2 -> Fd_2^* Fd_2)
8.60184119E-01	2	-5	5	# BR(Ah_2 -> Fd_3^* Fd_3)
7.31205120E-10	2	-2	2	# BR(Ah_2 -> Fu_1^* Fu_1)
1.73676198E-04	2	-4	4	# BR(Ah_2 -> Fu_2^* Fu_2)
DECAY 1000017	1.45697962E-09	# Ah_3		
# BR	NDA	ID1	ID2	
4.93468038E-04	2	22	22	# BR(Ah_3 -> VP VP)
1.49031998E-03	2	21	21	# BR(Ah_3 -> VG VG)
1.05564290E-08	2	-11	11	# BR(Ah_3 -> Cha_1^* Cha_1)
4.58947742E-22	2	-11	13	# BR(Ah_3 -> Cha_1^* Cha_2)
1.35869083E-19	2	-11	15	# BR(Ah_3 -> Cha_1^* Cha_3)
4.58947742E-22	2	-13	11	# BR(Ah_3 -> Cha_2^* Cha_1)
4.71578029E-04	2	-13	13	# BR(Ah_3 -> Cha_2^* Cha_2)
4.58043692E-20	2	-13	15	# BR(Ah_3 -> Cha_2^* Cha_3)
1.35869083E-19	2	-15	11	# BR(Ah_3 -> Cha_3^* Cha_1)
4.58043692E-20	2	-15	13	# BR(Ah_3 -> Cha_3^* Cha_2)
1.36202078E-01	2	-15	15	# BR(Ah_3 -> Cha_3^* Cha_3)
5.17892341E-20	2	12	12	# BR(Ah_3 -> Chi_1 Chi_1)
2.13911048E-20	2	12	14	# BR(Ah_3 -> Chi_1 Chi_2)
4.70173694E-18	2	12	16	# BR(Ah_3 -> Chi_1 Chi_3)
8.50945912E-07	2	12	1000022	# BR(Ah_3 -> Chi_1 Chi_4)
1.06720299E-08	2	12	1000023	# BR(Ah_3 -> Chi_1 Chi_5)
1.34035205E-06	2	12	1000025	# BR(Ah_3 -> Chi_1 Chi_6)
1.94912852E-19	2	14	14	# BR(Ah_3 -> Chi_2 Chi_2)
3.84221508E-18	2	14	16	# BR(Ah_3 -> Chi_2 Chi_3)
1.34560701E-07	2	14	1000022	# BR(Ah_3 -> Chi_2 Chi_4)
1.20098315E-06	2	14	1000023	# BR(Ah_3 -> Chi_2 Chi_5)
4.18814820E-06	2	14	1000025	# BR(Ah_3 -> Chi_2 Chi_6)
8.21296520E-18	2	16	16	# BR(Ah_3 -> Chi_3 Chi_3)
4.50190408E-07	2	16	1000022	# BR(Ah_3 -> Chi_3 Chi_4)
4.70779719E-06	2	16	1000023	# BR(Ah_3 -> Chi_3 Chi_5)
1.18409515E-05	2	16	1000025	# BR(Ah_3 -> Chi_3 Chi_6)
8.92505911E-07	2	-1	1	# BR(Ah_3 -> Fd_1^* Fd_1)
3.21026260E-04	2	-3	3	# BR(Ah_3 -> Fd_2^* Fd_2)
8.60880149E-01	2	-5	5	# BR(Ah_3 -> Fd_3^* Fd_3)
4.87289478E-10	2	-2	2	# BR(Ah_3 -> Fu_1^* Fu_1)
1.15752491E-04	2	-4	4	# BR(Ah_3 -> Fu_2^* Fu_2)
DECAY 1000018	1.45727473E-09	# Ah_4		
# BR	NDA	ID1	ID2	
4.96210460E-04	2	22	22	# BR(Ah_4 -> VP VP)
4.50256535E-04	2	21	21	# BR(Ah_4 -> VG VG)
1.05674557E-08	2	-11	11	# BR(Ah_4 -> Cha_1^* Cha_1)
3.32360524E-23	2	-11	13	# BR(Ah_4 -> Cha_1^* Cha_2)
1.91258925E-19	2	-11	15	# BR(Ah_4 -> Cha_1^* Cha_3)
3.32360524E-23	2	-13	11	# BR(Ah_4 -> Cha_2^* Cha_1)
4.72070617E-04	2	-13	13	# BR(Ah_4 -> Cha_2^* Cha_2)
1.33231545E-18	2	-13	15	# BR(Ah_4 -> Cha_2^* Cha_3)
1.91258925E-19	2	-15	11	# BR(Ah_4 -> Cha_3^* Cha_1)
1.33231545E-18	2	-15	13	# BR(Ah_4 -> Cha_3^* Cha_2)
1.36344560E-01	2	-15	15	# BR(Ah_4 -> Cha_3^* Cha_3)
8.22869859E-22	2	12	12	# BR(Ah_4 -> Chi_1 Chi_1)
5.54615338E-18	2	12	14	# BR(Ah_4 -> Chi_1 Chi_2)
1.38587394E-17	2	12	16	# BR(Ah_4 -> Chi_1 Chi_3)
2.82374199E-09	2	12	1000022	# BR(Ah_4 -> Chi_1 Chi_4)
4.90599113E-07	2	12	1000023	# BR(Ah_4 -> Chi_1 Chi_5)
4.01111666E-06	2	12	1000025	# BR(Ah_4 -> Chi_1 Chi_6)
1.92217587E-17	2	14	14	# BR(Ah_4 -> Chi_2 Chi_2)
5.63927944E-18	2	14	16	# BR(Ah_4 -> Chi_2 Chi_3)
6.89536966E-07	2	14	1000022	# BR(Ah_4 -> Chi_2 Chi_4)
3.69045488E-07	2	14	1000023	# BR(Ah_4 -> Chi_2 Chi_5)
1.79901507E-06	2	14	1000025	# BR(Ah_4 -> Chi_2 Chi_6)
3.47979710E-19	2	16	16	# BR(Ah_4 -> Chi_3 Chi_3)
2.89498958E-06	2	16	1000022	# BR(Ah_4 -> Chi_3 Chi_4)
4.29051617E-08	2	16	1000023	# BR(Ah_4 -> Chi_3 Chi_5)
9.28618556E-06	2	16	1000025	# BR(Ah_4 -> Chi_3 Chi_6)
8.93438174E-07	2	-1	1	# BR(Ah_4 -> Fd_1^* Fd_1)
3.21361587E-04	2	-3	3	# BR(Ah_4 -> Fd_2^* Fd_2)
8.61782660E-01	2	-5	5	# BR(Ah_4 -> Fd_3^* Fd_3)
4.73132807E-10	2	-2	2	# BR(Ah_4 -> Fu_1^* Fu_1)
1.12389690E-04	2	-4	4	# BR(Ah_4 -> Fu_2^* Fu_2)
DECAY 1000019	3.68257105E-04	# Ah_5		
# BR	NDA	ID1	ID2	

1.35538850E-13	2		22	22	# BR(Ah_5 -> VP VP)
6.06956370E-11	2		21	21	# BR(Ah_5 -> VG VG)
3.31784456E-11	2		25	36	# BR(Ah_5 -> hh_1 Ah_2)
2.03754741E-12	2		25	1000017	# BR(Ah_5 -> hh_1 Ah_3)
2.75361792E-11	2		25	1000018	# BR(Ah_5 -> hh_1 Ah_4)
2.19981741E-12	2		35	36	# BR(Ah_5 -> hh_2 Ah_2)
2.78992386E-14	2		35	1000017	# BR(Ah_5 -> hh_2 Ah_3)
2.05790758E-12	2		35	1000018	# BR(Ah_5 -> hh_2 Ah_4)
1.36614403E-11	2	1000012		36	# BR(Ah_5 -> hh_3 Ah_2)
1.02096976E-12	2	1000012	1000017		# BR(Ah_5 -> hh_3 Ah_3)
1.27639450E-11	2	1000012	1000018		# BR(Ah_5 -> hh_3 Ah_4)
5.53192742E-19	2	-11		11	# BR(Ah_5 -> Cha_1^* Cha_1)
4.80288174E-13	2	-11		15	# BR(Ah_5 -> Cha_1^* Cha_3)
2.47123304E-14	2	-13		13	# BR(Ah_5 -> Cha_2^* Cha_2)
2.01260052E-12	2	-13		15	# BR(Ah_5 -> Cha_2^* Cha_3)
4.80288174E-13	2	-15		11	# BR(Ah_5 -> Cha_3^* Cha_1)
2.01260052E-12	2	-15		13	# BR(Ah_5 -> Cha_3^* Cha_2)
8.34853835E-12	2	-15		15	# BR(Ah_5 -> Cha_3^* Cha_3)
1.84297440E-13	2	12		12	# BR(Ah_5 -> Chi_1 Chi_1)
1.21018545E-11	2	12		14	# BR(Ah_5 -> Chi_1 Chi_2)
2.02720284E-11	2	12		16	# BR(Ah_5 -> Chi_1 Chi_3)
1.11421582E-03	2	12	1000022		# BR(Ah_5 -> Chi_1 Chi_4)
1.29895015E-03	2	12	1000023		# BR(Ah_5 -> Chi_1 Chi_5)
2.58576737E-01	2	12	1000025		# BR(Ah_5 -> Chi_1 Chi_6)
4.23856290E-11	2	14		14	# BR(Ah_5 -> Chi_2 Chi_2)
7.53364920E-11	2	14		16	# BR(Ah_5 -> Chi_2 Chi_3)
2.59711654E-03	2	14	1000022		# BR(Ah_5 -> Chi_2 Chi_4)
3.02771227E-03	2	14	1000023		# BR(Ah_5 -> Chi_2 Chi_5)
6.02714401E-01	2	14	1000025		# BR(Ah_5 -> Chi_2 Chi_6)
1.84087500E-11	2	16		16	# BR(Ah_5 -> Chi_3 Chi_3)
5.57858915E-04	2	16	1000022		# BR(Ah_5 -> Chi_3 Chi_4)
6.50350598E-04	2	16	1000023		# BR(Ah_5 -> Chi_3 Chi_5)
1.29462655E-01	2	16	1000025		# BR(Ah_5 -> Chi_3 Chi_6)
4.77058502E-13	2	1000022	1000022		# BR(Ah_5 -> Chi_4 Chi_4)
2.25597918E-11	2	1000022	1000023		# BR(Ah_5 -> Chi_4 Chi_5)
2.21357347E-11	2	1000022	1000025		# BR(Ah_5 -> Chi_4 Chi_6)
1.18930697E-10	2	1000023	1000023		# BR(Ah_5 -> Chi_5 Chi_5)
2.15067263E-10	2	1000023	1000025		# BR(Ah_5 -> Chi_5 Chi_6)
3.71439841E-11	2	1000025	1000025		# BR(Ah_5 -> Chi_6 Chi_6)
4.67703418E-17	2	-1		1	# BR(Ah_5 -> Fd_1^* Fd_1)
1.68228650E-14	2	-3		3	# BR(Ah_5 -> Fd_2^* Fd_2)
4.51594330E-11	2	-5		5	# BR(Ah_5 -> Fd_3^* Fd_3)
6.77262001E-18	2	-2		2	# BR(Ah_5 -> Fu_1^* Fu_1)
1.60888696E-12	2	-4		4	# BR(Ah_5 -> Fu_2^* Fu_2)
2.97079789E-10	2	25		23	# BR(Ah_5 -> hh_1 VZ)
5.81766886E-11	2	35		23	# BR(Ah_5 -> hh_2 VZ)
7.06940298E-10	2	1000012		23	# BR(Ah_5 -> hh_3 VZ)
DECAY 2000018		8.29616476E-03	# Ah_6		
# BR	NDA	ID1	ID2		
5.27308929E-14	2	22	22	# BR(Ah_6 -> VP VP)	
2.65731218E-11	2	21	21	# BR(Ah_6 -> VG VG)	
4.24969012E-12	2	25	36	# BR(Ah_6 -> hh_1 Ah_2)	
6.03403715E-12	2	25	1000017	# BR(Ah_6 -> hh_1 Ah_3)	
5.90295251E-12	2	25	1000018	# BR(Ah_6 -> hh_1 Ah_4)	
4.18340042E-21	2	25	1000019	# BR(Ah_6 -> hh_1 Ah_5)	
6.40923837E-14	2	35	36	# BR(Ah_6 -> hh_2 Ah_2)	
8.00669661E-13	2	35	1000017	# BR(Ah_6 -> hh_2 Ah_3)	
7.74232939E-13	2	35	1000018	# BR(Ah_6 -> hh_2 Ah_4)	
4.92697341E-21	2	35	1000019	# BR(Ah_6 -> hh_2 Ah_5)	
1.55181180E-13	2	1000012	36	# BR(Ah_6 -> hh_3 Ah_2)	
9.67166237E-15	2	1000012	1000017	# BR(Ah_6 -> hh_3 Ah_3)	
1.16747154E-14	2	1000012	1000018	# BR(Ah_6 -> hh_3 Ah_4)	
8.79962900E-22	2	1000012	1000019	# BR(Ah_6 -> hh_3 Ah_5)	
8.90017629E-10	2	1000014	36	# BR(Ah_6 -> hh_4 Ah_2)	
9.24988874E-10	2	1000014	1000017	# BR(Ah_6 -> hh_4 Ah_3)	
9.02120051E-10	2	1000014	1000018	# BR(Ah_6 -> hh_4 Ah_4)	
1.94755613E-23	2	1000014	1000019	# BR(Ah_6 -> hh_4 Ah_5)	
1.43079899E-20	2	1000016	36	# BR(Ah_6 -> hh_5 Ah_2)	
1.64492468E-20	2	1000016	1000017	# BR(Ah_6 -> hh_5 Ah_3)	
2.21410608E-20	2	1000016	1000018	# BR(Ah_6 -> hh_5 Ah_4)	
3.07178406E-20	2	-11	11	# BR(Ah_6 -> Cha_1^* Cha_1)	
1.57091071E-16	2	-11	13	# BR(Ah_6 -> Cha_1^* Cha_2)	
1.82720572E-24	2	-11	-1000024	# BR(Ah_6 -> Cha_1^* Cha_4)	

1.57091071E-16	2	-13	11	# BR(Ah_6 -> Cha_2^* Cha_1)
4.85459048E-15	2	-13	13	# BR(Ah_6 -> Cha_2^* Cha_2)
3.31506651E-15	2	-13	15	# BR(Ah_6 -> Cha_2^* Cha_3)
2.66929353E-01	2	-13	-1000024	# BR(Ah_6 -> Cha_2^* Cha_4)
3.31506651E-15	2	-15	13	# BR(Ah_6 -> Cha_3^* Cha_2)
3.96561259E-13	2	-15	15	# BR(Ah_6 -> Cha_3^* Cha_3)
4.59488819E-26	2	-15	-1000024	# BR(Ah_6 -> Cha_3^* Cha_4)
1.82720572E-24	2	1000024	11	# BR(Ah_6 -> Cha_4^* Cha_1)
2.66929353E-01	2	1000024	13	# BR(Ah_6 -> Cha_4^* Cha_2)
4.59488819E-26	2	1000024	15	# BR(Ah_6 -> Cha_4^* Cha_3)
4.34632810E-15	2	12	12	# BR(Ah_6 -> Chi_1 Chi_1)
2.61399837E-13	2	12	14	# BR(Ah_6 -> Chi_1 Chi_2)
2.38664400E-13	2	12	16	# BR(Ah_6 -> Chi_1 Chi_3)
2.93546417E-05	2	12	1000022	# BR(Ah_6 -> Chi_1 Chi_4)
3.44052089E-05	2	12	1000023	# BR(Ah_6 -> Chi_1 Chi_5)
7.12085780E-03	2	12	1000025	# BR(Ah_6 -> Chi_1 Chi_6)
2.06915288E-02	2	12	1000039	# BR(Ah_6 -> Chi_1 Chi_7)
2.48151744E-03	2	12	1000045	# BR(Ah_6 -> Chi_1 Chi_8)
4.58751436E-13	2	14	14	# BR(Ah_6 -> Chi_2 Chi_2)
1.01359419E-12	2	14	16	# BR(Ah_6 -> Chi_2 Chi_3)
3.14017969E-05	2	14	1000022	# BR(Ah_6 -> Chi_2 Chi_4)
3.68045843E-05	2	14	1000023	# BR(Ah_6 -> Chi_2 Chi_5)
7.61745735E-03	2	14	1000025	# BR(Ah_6 -> Chi_2 Chi_6)
2.21345296E-02	2	14	1000039	# BR(Ah_6 -> Chi_2 Chi_7)
2.65457531E-03	2	14	1000045	# BR(Ah_6 -> Chi_2 Chi_8)
1.15197181E-11	2	16	16	# BR(Ah_6 -> Chi_3 Chi_3)
3.89983461E-04	2	16	1000022	# BR(Ah_6 -> Chi_3 Chi_4)
4.57081459E-04	2	16	1000023	# BR(Ah_6 -> Chi_3 Chi_5)
9.46023052E-02	2	16	1000025	# BR(Ah_6 -> Chi_3 Chi_6)
2.74891927E-01	2	16	1000039	# BR(Ah_6 -> Chi_3 Chi_7)
3.29675549E-02	2	16	1000045	# BR(Ah_6 -> Chi_3 Chi_8)
1.42296251E-12	2	1000022	1000022	# BR(Ah_6 -> Chi_4 Chi_4)
4.16325295E-12	2	1000022	1000023	# BR(Ah_6 -> Chi_4 Chi_5)
1.25109292E-13	2	1000022	1000025	# BR(Ah_6 -> Chi_4 Chi_6)
2.14765087E-12	2	1000022	1000039	# BR(Ah_6 -> Chi_4 Chi_7)
3.29041609E-12	2	1000022	1000045	# BR(Ah_6 -> Chi_4 Chi_8)
1.84604508E-12	2	1000023	1000023	# BR(Ah_6 -> Chi_5 Chi_5)
2.79525767E-13	2	1000023	1000025	# BR(Ah_6 -> Chi_5 Chi_6)
1.30737489E-11	2	1000023	1000039	# BR(Ah_6 -> Chi_5 Chi_7)
2.33245104E-12	2	1000023	1000045	# BR(Ah_6 -> Chi_5 Chi_8)
2.36114152E-11	2	1000025	1000025	# BR(Ah_6 -> Chi_6 Chi_6)
2.09339912E-10	2	1000025	1000039	# BR(Ah_6 -> Chi_6 Chi_7)
6.61989631E-12	2	1000025	1000045	# BR(Ah_6 -> Chi_6 Chi_8)
2.59707657E-18	2	-1	1	# BR(Ah_6 -> Fd_1^* Fd_1)
9.34144676E-16	2	-3	3	# BR(Ah_6 -> Fd_2^* Fd_2)
2.50819520E-12	2	-5	5	# BR(Ah_6 -> Fd_3^* Fd_3)
3.57691548E-19	2	-2	2	# BR(Ah_6 -> Fu_1^* Fu_1)
8.49732423E-14	2	-4	4	# BR(Ah_6 -> Fu_2^* Fu_2)
4.65125479E-09	2	-6	6	# BR(Ah_6 -> Fu_3^* Fu_3)
7.18612417E-10	2	25	23	# BR(Ah_6 -> hh_1 VZ)
1.00023960E-09	2	35	23	# BR(Ah_6 -> hh_2 VZ)
5.53259511E-10	2	1000012	23	# BR(Ah_6 -> hh_3 VZ)
9.40529361E-11	2	1000014	23	# BR(Ah_6 -> hh_4 VZ)
3.81312693E-21	2	1000016	23	# BR(Ah_6 -> hh_5 VZ)
8.73454136E-22	2	37	24	# BR(Ah_6 -> Hpm_2 VWm^*)
8.73454136E-22	2	-37	-24	# BR(Ah_6 -> Hpm_2^* VWm)
DECAY	2000019	3.07948963E-02	# Ah_7	
#	BR	NDA	ID1	ID2
2.92365159E-15	2	22	22	# BR(Ah_7 -> VP VP)
1.20794904E-12	2	21	21	# BR(Ah_7 -> VG VG)
3.06656948E-13	2	25	36	# BR(Ah_7 -> hh_1 Ah_2)
1.17605404E-12	2	25	1000017	# BR(Ah_7 -> hh_1 Ah_3)
8.54952243E-14	2	25	1000018	# BR(Ah_7 -> hh_1 Ah_4)
9.63191002E-22	2	25	1000019	# BR(Ah_7 -> hh_1 Ah_5)
5.67283680E-22	2	25	2000018	# BR(Ah_7 -> hh_1 Ah_6)
9.76351224E-14	2	35	36	# BR(Ah_7 -> hh_2 Ah_2)
2.10422403E-16	2	35	1000017	# BR(Ah_7 -> hh_2 Ah_3)
4.02674368E-17	2	35	1000018	# BR(Ah_7 -> hh_2 Ah_4)
9.63921789E-22	2	35	1000019	# BR(Ah_7 -> hh_2 Ah_5)
1.56538774E-22	2	35	2000018	# BR(Ah_7 -> hh_2 Ah_6)
2.84720247E-14	2	1000012	36	# BR(Ah_7 -> hh_3 Ah_2)
1.47787063E-14	2	1000012	1000017	# BR(Ah_7 -> hh_3 Ah_3)
5.24038575E-16	2	1000012	1000018	# BR(Ah_7 -> hh_3 Ah_4)

2.86143231E-23	2	1000012	1000019	# BR(Ah_7 -> hh_3 Ah_5)
1.06920201E-22	2	1000012	2000018	# BR(Ah_7 -> hh_3 Ah_6)
1.39659965E-10	2	1000014	36	# BR(Ah_7 -> hh_4 Ah_2)
2.83785362E-10	2	1000014	1000017	# BR(Ah_7 -> hh_4 Ah_3)
2.04992623E-11	2	1000014	1000018	# BR(Ah_7 -> hh_4 Ah_4)
4.07162662E-24	2	1000014	1000019	# BR(Ah_7 -> hh_4 Ah_5)
2.22632353E-25	2	1000014	2000018	# BR(Ah_7 -> hh_4 Ah_6)
2.77312174E-21	2	1000016	36	# BR(Ah_7 -> hh_5 Ah_2)
6.19503221E-21	2	1000016	1000017	# BR(Ah_7 -> hh_5 Ah_3)
5.73356851E-22	2	1000016	1000018	# BR(Ah_7 -> hh_5 Ah_4)
1.59818560E-22	2	2000012	36	# BR(Ah_7 -> hh_6 Ah_2)
1.03925844E-21	2	2000012	1000017	# BR(Ah_7 -> hh_6 Ah_3)
7.19721827E-25	2	2000012	1000018	# BR(Ah_7 -> hh_6 Ah_4)
1.06409054E-20	2	-11	11	# BR(Ah_7 -> Cha_1^* Cha_1)
2.92191935E-18	2	-11	13	# BR(Ah_7 -> Cha_1^* Cha_2)
1.43251848E-15	2	-11	15	# BR(Ah_7 -> Cha_1^* Cha_3)
2.74647845E-01	2	-11	-1000024	# BR(Ah_7 -> Cha_1^* Cha_4)
2.92191935E-18	2	-13	11	# BR(Ah_7 -> Cha_2^* Cha_1)
1.21082177E-16	2	-13	13	# BR(Ah_7 -> Cha_2^* Cha_2)
3.88144708E-25	2	-13	-1000024	# BR(Ah_7 -> Cha_2^* Cha_4)
1.43251848E-15	2	-15	11	# BR(Ah_7 -> Cha_3^* Cha_1)
3.49922701E-14	2	-15	15	# BR(Ah_7 -> Cha_3^* Cha_3)
7.91458715E-26	2	-15	-1000024	# BR(Ah_7 -> Cha_3^* Cha_4)
2.74647845E-01	2	1000024	11	# BR(Ah_7 -> Cha_4^* Cha_1)
3.88144708E-25	2	1000024	13	# BR(Ah_7 -> Cha_4^* Cha_2)
7.91458715E-26	2	1000024	15	# BR(Ah_7 -> Cha_4^* Cha_3)
2.71225240E-12	2	1000024	-1000024	# BR(Ah_7 -> Cha_4^* Cha_4)
1.96575810E-14	2	12	12	# BR(Ah_7 -> Chi_1 Chi_1)
8.39511640E-13	2	12	14	# BR(Ah_7 -> Chi_1 Chi_2)
1.98265043E-12	2	12	16	# BR(Ah_7 -> Chi_1 Chi_3)
1.35287932E-04	2	12	1000022	# BR(Ah_7 -> Chi_1 Chi_4)
1.58704125E-04	2	12	1000023	# BR(Ah_7 -> Chi_1 Chi_5)
3.30550942E-02	2	12	1000025	# BR(Ah_7 -> Chi_1 Chi_6)
2.37075209E-01	2	12	1000039	# BR(Ah_7 -> Chi_1 Chi_7)
3.32984162E-02	2	12	1000045	# BR(Ah_7 -> Chi_1 Chi_8)
9.26763444E-13	2	14	14	# BR(Ah_7 -> Chi_2 Chi_2)
7.93771990E-13	2	14	16	# BR(Ah_7 -> Chi_2 Chi_3)
6.46428755E-05	2	14	1000022	# BR(Ah_7 -> Chi_2 Chi_4)
7.58315313E-05	2	14	1000023	# BR(Ah_7 -> Chi_2 Chi_5)
1.57942864E-02	2	14	1000025	# BR(Ah_7 -> Chi_2 Chi_6)
1.13278568E-01	2	14	1000039	# BR(Ah_7 -> Chi_2 Chi_7)
1.59105498E-02	2	14	1000045	# BR(Ah_7 -> Chi_2 Chi_8)
2.39873806E-14	2	16	16	# BR(Ah_7 -> Chi_3 Chi_3)
8.27488320E-07	2	16	1000022	# BR(Ah_7 -> Chi_3 Chi_4)
9.70713407E-07	2	16	1000023	# BR(Ah_7 -> Chi_3 Chi_5)
2.02181407E-04	2	16	1000025	# BR(Ah_7 -> Chi_3 Chi_6)
1.45006996E-03	2	16	1000039	# BR(Ah_7 -> Chi_3 Chi_7)
2.03669685E-04	2	16	1000045	# BR(Ah_7 -> Chi_3 Chi_8)
3.19820622E-13	2	1000022	1000022	# BR(Ah_7 -> Chi_4 Chi_4)
2.90338186E-14	2	1000022	1000023	# BR(Ah_7 -> Chi_4 Chi_5)
2.52903128E-13	2	1000022	1000025	# BR(Ah_7 -> Chi_4 Chi_6)
4.15341157E-12	2	1000022	1000039	# BR(Ah_7 -> Chi_4 Chi_7)
2.65147998E-12	2	1000022	1000045	# BR(Ah_7 -> Chi_4 Chi_8)
7.09083427E-17	2	1000023	1000023	# BR(Ah_7 -> Chi_5 Chi_5)
5.73766749E-14	2	1000023	1000025	# BR(Ah_7 -> Chi_5 Chi_6)
6.38153623E-13	2	1000023	1000039	# BR(Ah_7 -> Chi_5 Chi_7)
9.99564494E-14	2	1000023	1000045	# BR(Ah_7 -> Chi_5 Chi_8)
2.60412300E-12	2	1000025	1000025	# BR(Ah_7 -> Chi_6 Chi_6)
3.28090104E-11	2	1000025	1000039	# BR(Ah_7 -> Chi_6 Chi_7)
1.55831167E-12	2	1000025	1000045	# BR(Ah_7 -> Chi_6 Chi_8)
9.13318201E-12	2	1000039	1000039	# BR(Ah_7 -> Chi_7 Chi_7)
4.45647694E-13	2	1000039	1000045	# BR(Ah_7 -> Chi_7 Chi_8)
1.46320898E-12	2	1000045	1000045	# BR(Ah_7 -> Chi_8 Chi_8)
2.29158963E-19	2	-1	1	# BR(Ah_7 -> Fd_1^* Fd_1)
8.24263773E-17	2	-3	3	# BR(Ah_7 -> Fd_2^* Fd_2)
2.21322757E-13	2	-5	5	# BR(Ah_7 -> Fd_3^* Fd_3)
2.11637124E-20	2	-2	2	# BR(Ah_7 -> Fu_1^* Fu_1)
5.02765848E-15	2	-4	4	# BR(Ah_7 -> Fu_2^* Fu_2)
3.62872557E-10	2	-6	6	# BR(Ah_7 -> Fu_3^* Fu_3)
1.78805915E-10	2	25	23	# BR(Ah_7 -> hh_1 VZ)
2.13417977E-10	2	35	23	# BR(Ah_7 -> hh_2 VZ)
1.52721359E-11	2	1000012	23	# BR(Ah_7 -> hh_3 VZ)
1.72793118E-12	2	1000014	23	# BR(Ah_7 -> hh_4 VZ)

1.79636579E-22	2	1000016	23	# BR(Ah_7 -> hh_5 VZ)
1.85969058E-23	2	2000012	23	# BR(Ah_7 -> hh_6 VZ)
3.47850156E-23	2	37	24	# BR(Ah_7 -> Hpm_2 Vwm^*)
3.47850156E-23	2	-37	-24	# BR(Ah_7 -> Hpm_2^* Vwm)
1.92731687E-24	2	1000011	24	# BR(Ah_7 -> Hpm_3 Vwm^*)
1.92731687E-24	2	-1000011	-24	# BR(Ah_7 -> Hpm_3^* Vwm)
DECAY 2000020	1.78623873E+01	# Ah_8		
# BR	NDA	ID1	ID2	
1.42799500E-06	2	22	22	# BR(Ah_8 -> VP VP)
4.14481795E-04	2	21	21	# BR(Ah_8 -> VG VG)
9.80728929E-05	2	25	36	# BR(Ah_8 -> hh_1 Ah_2)
3.70967870E-07	2	25	1000017	# BR(Ah_8 -> hh_1 Ah_3)
2.35767794E-07	2	25	1000018	# BR(Ah_8 -> hh_1 Ah_4)
8.66703171E-13	2	25	1000019	# BR(Ah_8 -> hh_1 Ah_5)
4.24773671E-13	2	25	2000018	# BR(Ah_8 -> hh_1 Ah_6)
6.33564422E-14	2	25	2000019	# BR(Ah_8 -> hh_1 Ah_7)
1.70629958E-07	2	35	36	# BR(Ah_8 -> hh_2 Ah_2)
3.91032968E-05	2	35	1000017	# BR(Ah_8 -> hh_2 Ah_3)
1.00203437E-07	2	35	1000018	# BR(Ah_8 -> hh_2 Ah_4)
1.16633766E-14	2	35	1000019	# BR(Ah_8 -> hh_2 Ah_5)
1.29696278E-14	2	35	2000018	# BR(Ah_8 -> hh_2 Ah_6)
2.29053172E-15	2	35	2000019	# BR(Ah_8 -> hh_2 Ah_7)
5.10520638E-07	2	1000012	36	# BR(Ah_8 -> hh_3 Ah_2)
6.43307279E-08	2	1000012	1000017	# BR(Ah_8 -> hh_3 Ah_3)
4.10086506E-05	2	1000012	1000018	# BR(Ah_8 -> hh_3 Ah_4)
1.25544254E-14	2	1000012	1000019	# BR(Ah_8 -> hh_3 Ah_5)
7.08731052E-16	2	1000012	2000018	# BR(Ah_8 -> hh_3 Ah_6)
4.64062329E-20	2	1000012	2000019	# BR(Ah_8 -> hh_3 Ah_7)
1.91043237E-01	2	1000014	36	# BR(Ah_8 -> hh_4 Ah_2)
2.06713657E-06	2	1000014	1000017	# BR(Ah_8 -> hh_4 Ah_3)
2.06748370E-06	2	1000014	1000018	# BR(Ah_8 -> hh_4 Ah_4)
8.91236961E-14	2	1000014	1000019	# BR(Ah_8 -> hh_4 Ah_5)
3.36595353E-14	2	1000014	2000018	# BR(Ah_8 -> hh_4 Ah_6)
4.17165752E-15	2	1000014	2000019	# BR(Ah_8 -> hh_4 Ah_7)
3.94060551E-12	2	1000016	36	# BR(Ah_8 -> hh_5 Ah_2)
1.40479910E-17	2	1000016	1000017	# BR(Ah_8 -> hh_5 Ah_3)
1.01355243E-15	2	1000016	1000018	# BR(Ah_8 -> hh_5 Ah_4)
6.00465131E-24	2	1000016	1000019	# BR(Ah_8 -> hh_5 Ah_5)
2.49689003E-24	2	1000016	2000018	# BR(Ah_8 -> hh_5 Ah_6)
2.70219169E-25	2	1000016	2000019	# BR(Ah_8 -> hh_5 Ah_7)
4.85076419E-13	2	2000012	36	# BR(Ah_8 -> hh_6 Ah_2)
2.29533037E-15	2	2000012	1000017	# BR(Ah_8 -> hh_6 Ah_3)
2.71310340E-15	2	2000012	1000018	# BR(Ah_8 -> hh_6 Ah_4)
1.27843579E-24	2	2000012	1000019	# BR(Ah_8 -> hh_6 Ah_5)
4.81661328E-25	2	2000012	2000018	# BR(Ah_8 -> hh_6 Ah_6)
4.37954791E-26	2	2000012	2000019	# BR(Ah_8 -> hh_6 Ah_7)
2.59285977E-14	2	2000014	36	# BR(Ah_8 -> hh_7 Ah_2)
6.64463520E-15	2	2000014	1000017	# BR(Ah_8 -> hh_7 Ah_3)
5.02448144E-16	2	2000014	1000018	# BR(Ah_8 -> hh_7 Ah_4)
1.01327587E-25	2	2000014	1000019	# BR(Ah_8 -> hh_7 Ah_5)
3.06258923E-26	2	2000014	2000018	# BR(Ah_8 -> hh_7 Ah_6)
1.91733660E-10	2	-11	11	# BR(Ah_8 -> Cha_1^* Cha_1)
1.00637400E-29	2	-11	13	# BR(Ah_8 -> Cha_1^* Cha_2)
5.61782611E-27	2	-11	15	# BR(Ah_8 -> Cha_1^* Cha_3)
2.07089958E-16	2	-11	-1000024	# BR(Ah_8 -> Cha_1^* Cha_4)
1.00637400E-29	2	-13	11	# BR(Ah_8 -> Cha_2^* Cha_1)
8.56516707E-06	2	-13	13	# BR(Ah_8 -> Cha_2^* Cha_2)
2.35616380E-26	2	-13	15	# BR(Ah_8 -> Cha_2^* Cha_3)
9.26141900E-16	2	-13	-1000024	# BR(Ah_8 -> Cha_2^* Cha_4)
5.61782611E-27	2	-15	11	# BR(Ah_8 -> Cha_3^* Cha_1)
2.35616380E-26	2	-15	13	# BR(Ah_8 -> Cha_3^* Cha_2)
2.47532328E-03	2	-15	15	# BR(Ah_8 -> Cha_3^* Cha_3)
4.55278107E-16	2	-15	-1000024	# BR(Ah_8 -> Cha_3^* Cha_4)
2.07089958E-16	2	1000024	11	# BR(Ah_8 -> Cha_4^* Cha_1)
9.26141900E-16	2	1000024	13	# BR(Ah_8 -> Cha_4^* Cha_2)
4.55278107E-16	2	1000024	15	# BR(Ah_8 -> Cha_4^* Cha_3)
9.28089153E-03	2	1000024	-1000024	# BR(Ah_8 -> Cha_4^* Cha_4)
5.88293025E-28	2	12	12	# BR(Ah_8 -> Chi_1 Chi_1)
1.52548482E-28	2	12	14	# BR(Ah_8 -> Chi_1 Chi_2)
2.42812019E-28	2	12	16	# BR(Ah_8 -> Chi_1 Chi_3)
3.87996000E-16	2	12	1000022	# BR(Ah_8 -> Chi_1 Chi_4)
7.59075316E-16	2	12	1000023	# BR(Ah_8 -> Chi_1 Chi_5)
3.26645857E-18	2	12	1000025	# BR(Ah_8 -> Chi_1 Chi_6)

2.45532674E-17	2	12	1000039	# BR(Ah_8 -> Chi_1 Chi_7)
4.56611702E-17	2	12	1000045	# BR(Ah_8 -> Chi_1 Chi_8)
1.54418965E-15	2	12	1000055	# BR(Ah_8 -> Chi_1 Chi_9)
3.08128216E-28	2	14	14	# BR(Ah_8 -> Chi_2 Chi_2)
1.40398202E-26	2	14	16	# BR(Ah_8 -> Chi_2 Chi_3)
1.31726659E-15	2	14	1000022	# BR(Ah_8 -> Chi_2 Chi_4)
2.60601957E-16	2	14	1000023	# BR(Ah_8 -> Chi_2 Chi_5)
6.28407093E-16	2	14	1000025	# BR(Ah_8 -> Chi_2 Chi_6)
5.29334699E-15	2	14	1000039	# BR(Ah_8 -> Chi_2 Chi_7)
6.15458103E-17	2	14	1000045	# BR(Ah_8 -> Chi_2 Chi_8)
1.89691260E-16	2	14	1000055	# BR(Ah_8 -> Chi_2 Chi_9)
1.88124057E-27	2	16	16	# BR(Ah_8 -> Chi_3 Chi_3)
2.73319308E-15	2	16	1000022	# BR(Ah_8 -> Chi_3 Chi_4)
2.89669729E-15	2	16	1000023	# BR(Ah_8 -> Chi_3 Chi_5)
1.91217526E-15	2	16	1000025	# BR(Ah_8 -> Chi_3 Chi_6)
1.37402024E-14	2	16	1000039	# BR(Ah_8 -> Chi_3 Chi_7)
6.99927338E-18	2	16	1000045	# BR(Ah_8 -> Chi_3 Chi_8)
3.69954058E-15	2	16	1000055	# BR(Ah_8 -> Chi_3 Chi_9)
5.38645605E-05	2	1000022	1000022	# BR(Ah_8 -> Chi_4 Chi_4)
2.99425717E-06	2	1000022	1000023	# BR(Ah_8 -> Chi_4 Chi_5)
6.03464565E-04	2	1000022	1000025	# BR(Ah_8 -> Chi_4 Chi_6)
3.05255329E-04	2	1000022	1000039	# BR(Ah_8 -> Chi_4 Chi_7)
7.79971427E-04	2	1000022	1000045	# BR(Ah_8 -> Chi_4 Chi_8)
1.76148689E-07	2	1000022	1000055	# BR(Ah_8 -> Chi_4 Chi_9)
5.87344424E-05	2	1000023	1000023	# BR(Ah_8 -> Chi_5 Chi_5)
7.04488231E-04	2	1000023	1000025	# BR(Ah_8 -> Chi_5 Chi_6)
3.56785115E-04	2	1000023	1000039	# BR(Ah_8 -> Chi_5 Chi_7)
9.10221258E-04	2	1000023	1000045	# BR(Ah_8 -> Chi_5 Chi_8)
1.93942784E-07	2	1000023	1000055	# BR(Ah_8 -> Chi_5 Chi_9)
7.49005978E-02	2	1000025	1000025	# BR(Ah_8 -> Chi_6 Chi_6)
7.24130043E-02	2	1000025	1000039	# BR(Ah_8 -> Chi_6 Chi_7)
1.82842517E-01	2	1000025	1000045	# BR(Ah_8 -> Chi_6 Chi_8)
2.49009514E-05	2	1000025	1000055	# BR(Ah_8 -> Chi_6 Chi_9)
2.06850646E-04	2	1000039	1000039	# BR(Ah_8 -> Chi_7 Chi_7)
2.59010620E-02	2	1000039	1000045	# BR(Ah_8 -> Chi_7 Chi_8)
1.28935326E-02	2	1000039	1000055	# BR(Ah_8 -> Chi_7 Chi_9)
4.07924820E-02	2	1000045	1000045	# BR(Ah_8 -> Chi_8 Chi_8)
3.51368593E-04	2	1000045	1000055	# BR(Ah_8 -> Chi_8 Chi_9)
1.62103514E-08	2	-1	1	# BR(Ah_8 -> Fd_1^* Fd_1)
5.83071498E-06	2	-3	3	# BR(Ah_8 -> Fd_2^* Fd_2)
1.56561715E-02	2	-5	5	# BR(Ah_8 -> Fd_3^* Fd_3)
1.04478536E-11	2	-2	2	# BR(Ah_8 -> Fu_1^* Fu_1)
2.48199421E-06	2	-4	4	# BR(Ah_8 -> Fu_2^* Fu_2)
1.91620360E-01	2	-6	6	# BR(Ah_8 -> Fu_3^* Fu_3)
1.70807060E-01	2	25	23	# BR(Ah_8 -> hh_1 VZ)
2.06341641E-03	2	35	23	# BR(Ah_8 -> hh_2 VZ)
1.61791975E-03	2	1000012	23	# BR(Ah_8 -> hh_3 VZ)
4.44662904E-04	2	1000014	23	# BR(Ah_8 -> hh_4 VZ)
1.54118742E-13	2	1000016	23	# BR(Ah_8 -> hh_5 VZ)
5.57114613E-14	2	2000012	23	# BR(Ah_8 -> hh_6 VZ)
3.48591766E-15	2	2000014	23	# BR(Ah_8 -> hh_7 VZ)
2.46024251E-28	2	-37	1000011	# BR(Ah_8 -> Hpm_2^* Hpm_3)
8.25646835E-28	2	-37	2000011	# BR(Ah_8 -> Hpm_2^* Hpm_4)
1.35958377E-04	2	-37	1000013	# BR(Ah_8 -> Hpm_2^* Hpm_5)
2.34613653E-30	2	-37	2000013	# BR(Ah_8 -> Hpm_2^* Hpm_6)
2.46024251E-28	2	-1000011	37	# BR(Ah_8 -> Hpm_3^* Hpm_2)
2.10508554E-28	2	-1000011	2000011	# BR(Ah_8 -> Hpm_3^* Hpm_4)
8.25646835E-28	2	-2000011	37	# BR(Ah_8 -> Hpm_4^* Hpm_2)
2.10508554E-28	2	-2000011	1000011	# BR(Ah_8 -> Hpm_4^* Hpm_3)
1.35958377E-04	2	-1000013	37	# BR(Ah_8 -> Hpm_5^* Hpm_2)
2.34613653E-30	2	-2000013	37	# BR(Ah_8 -> Hpm_6^* Hpm_2)
1.39704189E-16	2	37	24	# BR(Ah_8 -> Hpm_2 Vwm^*)
1.39704189E-16	2	-37	-24	# BR(Ah_8 -> Hpm_2^* Vwm)
2.74828599E-16	2	1000011	24	# BR(Ah_8 -> Hpm_3 Vwm^*)
2.74828599E-16	2	-1000011	-24	# BR(Ah_8 -> Hpm_3^* Vwm)
6.09410262E-16	2	2000011	24	# BR(Ah_8 -> Hpm_4 Vwm^*)
6.09410262E-16	2	-2000011	-24	# BR(Ah_8 -> Hpm_4^* Vwm)
1.33072697E-15	2	1000013	24	# BR(Ah_8 -> Hpm_5 Vwm^*)
1.33072697E-15	2	-1000013	-24	# BR(Ah_8 -> Hpm_5^* Vwm)
3.95531522E-20	2	2000013	24	# BR(Ah_8 -> Hpm_6 Vwm^*)
3.95531522E-20	2	-2000013	-24	# BR(Ah_8 -> Hpm_6^* Vwm)
2.02708415E-25	2	1000015	24	# BR(Ah_8 -> Hpm_7 Vwm^*)
2.02708415E-25	2	-1000015	-24	# BR(Ah_8 -> Hpm_7^* Vwm)

DECAY		37	1.78576105E-05	# Hpm_2		
#	BR	NDA	ID1	ID2		
	3.82263878E-08	2	36	-24	# BR(Hpm_2 -> Ah_2 Vwm)	
	3.09879622E-09	2	1000017	-24	# BR(Hpm_2 -> Ah_3 Vwm)	
	4.32475124E-08	2	1000018	-24	# BR(Hpm_2 -> Ah_4 Vwm)	
	4.73776823E-11	2	12	11	# BR(Hpm_2 -> Chi_1 Cha_1)	
	3.26550633E-10	2	12	13	# BR(Hpm_2 -> Chi_1 Cha_2)	
	5.21181921E-10	2	12	15	# BR(Hpm_2 -> Chi_1 Cha_3)	
	1.10432239E-10	2	14	11	# BR(Hpm_2 -> Chi_2 Cha_1)	
	7.61116337E-10	2	14	13	# BR(Hpm_2 -> Chi_2 Cha_2)	
	9.23929740E-10	2	14	15	# BR(Hpm_2 -> Chi_2 Cha_3)	
	2.37207714E-11	2	16	11	# BR(Hpm_2 -> Chi_3 Cha_1)	
	1.63879236E-10	2	16	13	# BR(Hpm_2 -> Chi_3 Cha_2)	
	2.11748651E-10	2	16	15	# BR(Hpm_2 -> Chi_3 Cha_3)	
	2.49972482E-20	2	1000022	11	# BR(Hpm_2 -> Chi_4 Cha_1)	
	5.16544544E-20	2	1000022	13	# BR(Hpm_2 -> Chi_4 Cha_2)	
	4.51224877E-03	2	1000022	15	# BR(Hpm_2 -> Chi_4 Cha_3)	
	1.19111812E-21	2	1000023	11	# BR(Hpm_2 -> Chi_5 Cha_1)	
	5.41392610E-20	2	1000023	13	# BR(Hpm_2 -> Chi_5 Cha_2)	
	5.20022333E-03	2	1000023	15	# BR(Hpm_2 -> Chi_5 Cha_3)	
	5.10155799E-22	2	1000025	11	# BR(Hpm_2 -> Chi_6 Cha_1)	
	6.93988455E-22	2	1000025	13	# BR(Hpm_2 -> Chi_6 Cha_2)	
	9.90287076E-01	2	1000025	15	# BR(Hpm_2 -> Chi_6 Cha_3)	
	8.83819627E-16	2	-2	1	# BR(Hpm_2 -> Fu_1^* Fd_1)	
	1.44273797E-14	2	-2	3	# BR(Hpm_2 -> Fu_1^* Fd_2)	
	8.93703448E-15	2	-2	5	# BR(Hpm_2 -> Fu_1^* Fd_3)	
	1.70797498E-12	2	-4	1	# BR(Hpm_2 -> Fu_2^* Fd_1)	
	3.21523847E-11	2	-4	3	# BR(Hpm_2 -> Fu_2^* Fd_2)	
	1.34929652E-12	2	-4	5	# BR(Hpm_2 -> Fu_2^* Fd_3)	
	9.40578138E-12	2	-6	1	# BR(Hpm_2 -> Fu_3^* Fd_1)	
	4.44819487E-10	2	-6	3	# BR(Hpm_2 -> Fu_3^* Fd_2)	
	2.64371444E-07	2	-6	5	# BR(Hpm_2 -> Fu_3^* Fd_3)	
	2.28832493E-08	2	25	-24	# BR(Hpm_2 -> hh_1 Vwm)	
	5.19682936E-09	2	35	-24	# BR(Hpm_2 -> hh_2 Vwm)	
	6.60164979E-08	2	1000012	-24	# BR(Hpm_2 -> hh_3 Vwm)	
	4.88295435E-09	2	1000014	-24	# BR(Hpm_2 -> hh_4 Vwm)	
	5.96902588E-13	2	-24	23	# BR(Hpm_2 -> Vwm VZ)	

DECAY		1000011	8.79222145E-04	# Hpm_3		
#	BR	NDA	ID1	ID2		
	1.89441213E-20	2	37	36	# BR(Hpm_3 -> Hpm_2 Ah_2)	
	2.98067279E-20	2	37	1000017	# BR(Hpm_3 -> Hpm_2 Ah_3)	
	7.09075738E-20	2	37	1000018	# BR(Hpm_3 -> Hpm_2 Ah_4)	
	1.10659128E-10	2	37	1000019	# BR(Hpm_3 -> Hpm_2 Ah_5)	
	7.60922207E-09	2	36	-24	# BR(Hpm_3 -> Ah_2 Vwm)	
	8.37037931E-09	2	1000017	-24	# BR(Hpm_3 -> Ah_3 Vwm)	
	8.16982314E-09	2	1000018	-24	# BR(Hpm_3 -> Ah_4 Vwm)	
	1.48004818E-20	2	1000019	-24	# BR(Hpm_3 -> Ah_5 Vwm)	
	4.87759210E-13	2	12	11	# BR(Hpm_3 -> Chi_1 Cha_1)	
	3.94569085E-12	2	12	13	# BR(Hpm_3 -> Chi_1 Cha_2)	
	6.53532557E-12	2	12	15	# BR(Hpm_3 -> Chi_1 Cha_3)	
	5.17494786E-02	2	12	-1000024	# BR(Hpm_3 -> Chi_1 Cha_4)	
	5.21774819E-13	2	14	11	# BR(Hpm_3 -> Chi_2 Cha_1)	
	1.17291486E-11	2	14	13	# BR(Hpm_3 -> Chi_2 Cha_2)	
	8.02467682E-12	2	14	15	# BR(Hpm_3 -> Chi_2 Cha_3)	
	5.53584213E-02	2	14	-1000024	# BR(Hpm_3 -> Chi_2 Cha_4)	
	6.47999602E-12	2	16	11	# BR(Hpm_3 -> Chi_3 Cha_1)	
	2.03590860E-11	2	16	13	# BR(Hpm_3 -> Chi_3 Cha_2)	
	7.63456973E-11	2	16	15	# BR(Hpm_3 -> Chi_3 Cha_3)	
	6.87504245E-01	2	16	-1000024	# BR(Hpm_3 -> Chi_3 Cha_4)	
	5.26589596E-22	2	1000022	11	# BR(Hpm_3 -> Chi_4 Cha_1)	
	1.95987855E-04	2	1000022	13	# BR(Hpm_3 -> Chi_4 Cha_2)	
	7.65815122E-23	2	1000022	15	# BR(Hpm_3 -> Chi_4 Cha_3)	
	9.15363465E-11	2	1000022	-1000024	# BR(Hpm_3 -> Chi_4 Cha_4)	
	5.86004217E-23	2	1000023	11	# BR(Hpm_3 -> Chi_5 Cha_1)	
	2.29118555E-04	2	1000023	13	# BR(Hpm_3 -> Chi_5 Cha_2)	
	3.35315175E-24	2	1000023	15	# BR(Hpm_3 -> Chi_5 Cha_3)	
	2.15505925E-10	2	1000023	-1000024	# BR(Hpm_3 -> Chi_5 Cha_4)	
	1.25590130E-23	2	1000025	11	# BR(Hpm_3 -> Chi_6 Cha_1)	
	4.66365933E-02	2	1000025	13	# BR(Hpm_3 -> Chi_6 Cha_2)	
	2.41363515E-23	2	1000025	15	# BR(Hpm_3 -> Chi_6 Cha_3)	
	3.08320183E-09	2	1000025	-1000024	# BR(Hpm_3 -> Chi_6 Cha_4)	
	4.08184887E-25	2	1000039	11	# BR(Hpm_3 -> Chi_7 Cha_1)	
	1.05264560E-01	2	1000039	13	# BR(Hpm_3 -> Chi_7 Cha_2)	

6.12748295E-24	2	1000039	15	# BR(Hpm_3 -> Chi_7 Cha_3)
9.76585565E-25	2	1000045	11	# BR(Hpm_3 -> Chi_8 Cha_1)
5.30615018E-02	2	1000045	13	# BR(Hpm_3 -> Chi_8 Cha_2)
1.66284534E-23	2	1000045	15	# BR(Hpm_3 -> Chi_8 Cha_3)
2.06676052E-17	2	-2	1	# BR(Hpm_3 -> Fu_1^* Fd_1)
3.40064903E-16	2	-2	3	# BR(Hpm_3 -> Fu_1^* Fd_2)
2.10787736E-16	2	-2	5	# BR(Hpm_3 -> Fu_1^* Fd_3)
3.81622119E-14	2	-4	1	# BR(Hpm_3 -> Fu_2^* Fd_1)
7.18727653E-13	2	-4	3	# BR(Hpm_3 -> Fu_2^* Fd_2)
3.17535820E-14	2	-4	5	# BR(Hpm_3 -> Fu_2^* Fd_3)
1.45957067E-12	2	-6	1	# BR(Hpm_3 -> Fu_3^* Fd_1)
6.90263918E-11	2	-6	3	# BR(Hpm_3 -> Fu_3^* Fd_2)
4.12150201E-08	2	-6	5	# BR(Hpm_3 -> Fu_3^* Fd_3)
5.31634426E-20	2	37	25	# BR(Hpm_3 -> Hpm_2 hh_1)
5.66870583E-20	2	37	35	# BR(Hpm_3 -> Hpm_2 hh_2)
6.31062938E-21	2	37	1000012	# BR(Hpm_3 -> Hpm_2 hh_3)
2.04735561E-20	2	37	1000014	# BR(Hpm_3 -> Hpm_2 hh_4)
1.10659128E-10	2	37	1000016	# BR(Hpm_3 -> Hpm_2 hh_5)
7.52704956E-09	2	25	-24	# BR(Hpm_3 -> hh_1 Vwm)
1.03940307E-08	2	35	-24	# BR(Hpm_3 -> hh_2 Vwm)
5.74001308E-09	2	1000012	-24	# BR(Hpm_3 -> hh_3 Vwm)
9.39641334E-10	2	1000014	-24	# BR(Hpm_3 -> hh_4 Vwm)
1.05216143E-20	2	1000016	-24	# BR(Hpm_3 -> hh_5 Vwm)
8.85609885E-13	2	-24	23	# BR(Hpm_3 -> Vwm VZ)
DECAY 2000011	3.09290679E-03	# Hpm_4		
# BR	NDA	ID1	ID2	
5.47537191E-21	2	37	36	# BR(Hpm_4 -> Hpm_2 Ah_2)
1.48449338E-20	2	37	1000017	# BR(Hpm_4 -> Hpm_2 Ah_3)
2.06572197E-21	2	37	1000018	# BR(Hpm_4 -> Hpm_2 Ah_4)
7.22015502E-12	2	37	1000019	# BR(Hpm_4 -> Hpm_2 Ah_5)
8.86901901E-22	2	1000011	36	# BR(Hpm_4 -> Hpm_3 Ah_2)
8.34626310E-21	2	1000011	1000017	# BR(Hpm_4 -> Hpm_3 Ah_3)
3.90572229E-24	2	1000011	1000018	# BR(Hpm_4 -> Hpm_3 Ah_4)
1.33430112E-09	2	36	-24	# BR(Hpm_4 -> Ah_2 Vwm)
2.76061027E-09	2	1000017	-24	# BR(Hpm_4 -> Ah_3 Vwm)
1.99452182E-10	2	1000018	-24	# BR(Hpm_4 -> Ah_4 Vwm)
8.50951451E-22	2	1000019	-24	# BR(Hpm_4 -> Ah_5 Vwm)
4.15645064E-23	2	2000018	-24	# BR(Hpm_4 -> Ah_6 Vwm)
2.62194426E-12	2	12	11	# BR(Hpm_4 -> Chi_1 Cha_1)
1.58680871E-11	2	12	13	# BR(Hpm_4 -> Chi_1 Cha_2)
2.70540878E-11	2	12	15	# BR(Hpm_4 -> Chi_1 Cha_3)
5.48855572E-01	2	12	-1000024	# BR(Hpm_4 -> Chi_1 Cha_4)
2.74342684E-16	2	14	11	# BR(Hpm_4 -> Chi_2 Cha_1)
7.58208001E-12	2	14	13	# BR(Hpm_4 -> Chi_2 Cha_2)
1.30647560E-11	2	14	15	# BR(Hpm_4 -> Chi_2 Cha_3)
2.62252530E-01	2	14	-1000024	# BR(Hpm_4 -> Chi_2 Cha_4)
2.52191396E-12	2	16	11	# BR(Hpm_4 -> Chi_3 Cha_1)
9.79100732E-14	2	16	13	# BR(Hpm_4 -> Chi_3 Cha_2)
2.02267017E-13	2	16	15	# BR(Hpm_4 -> Chi_3 Cha_3)
3.35707382E-03	2	16	-1000024	# BR(Hpm_4 -> Chi_3 Cha_4)
9.10108357E-05	2	1000022	11	# BR(Hpm_4 -> Chi_4 Cha_1)
4.24088066E-23	2	1000022	13	# BR(Hpm_4 -> Chi_4 Cha_2)
7.38129194E-24	2	1000022	15	# BR(Hpm_4 -> Chi_4 Cha_3)
8.77646119E-11	2	1000022	-1000024	# BR(Hpm_4 -> Chi_4 Cha_4)
1.06488546E-04	2	1000023	11	# BR(Hpm_4 -> Chi_5 Cha_1)
9.88231521E-23	2	1000023	13	# BR(Hpm_4 -> Chi_5 Cha_2)
9.01033567E-25	2	1000023	15	# BR(Hpm_4 -> Chi_5 Cha_3)
9.39596848E-12	2	1000023	-1000024	# BR(Hpm_4 -> Chi_5 Cha_4)
2.18087784E-02	2	1000025	11	# BR(Hpm_4 -> Chi_6 Cha_1)
1.35795890E-24	2	1000025	13	# BR(Hpm_4 -> Chi_6 Cha_2)
2.02050188E-24	2	1000025	15	# BR(Hpm_4 -> Chi_6 Cha_3)
4.48932063E-10	2	1000025	-1000024	# BR(Hpm_4 -> Chi_6 Cha_4)
1.05325329E-01	2	1000039	11	# BR(Hpm_4 -> Chi_7 Cha_1)
4.23434340E-25	2	1000039	13	# BR(Hpm_4 -> Chi_7 Cha_2)
5.40885574E-25	2	1000039	15	# BR(Hpm_4 -> Chi_7 Cha_3)
2.05941600E-11	2	1000039	-1000024	# BR(Hpm_4 -> Chi_7 Cha_4)
5.82032044E-02	2	1000045	11	# BR(Hpm_4 -> Chi_8 Cha_1)
2.29079962E-24	2	1000045	13	# BR(Hpm_4 -> Chi_8 Cha_2)
4.54263053E-24	2	1000045	15	# BR(Hpm_4 -> Chi_8 Cha_3)
6.14272309E-12	2	1000045	-1000024	# BR(Hpm_4 -> Chi_8 Cha_4)
1.79126085E-18	2	-2	1	# BR(Hpm_4 -> Fu_1^* Fd_1)
3.08625509E-17	2	-2	3	# BR(Hpm_4 -> Fu_1^* Fd_2)
1.91351172E-17	2	-2	5	# BR(Hpm_4 -> Fu_1^* Fd_3)

2.38797295E-15	2	-4	1	# BR(Hpm_4 -> Fu_2^* Fd_1)
4.51521826E-14	2	-4	3	# BR(Hpm_4 -> Fu_2^* Fd_2)
2.84659474E-15	2	-4	5	# BR(Hpm_4 -> Fu_2^* Fd_3)
1.14832483E-13	2	-6	1	# BR(Hpm_4 -> Fu_3^* Fd_1)
5.43068768E-12	2	-6	3	# BR(Hpm_4 -> Fu_3^* Fd_2)
3.24305178E-09	2	-6	5	# BR(Hpm_4 -> Fu_3^* Fd_3)
1.13324926E-20	2	37	25	# BR(Hpm_4 -> Hpm_2 hh_1)
1.02199004E-20	2	37	35	# BR(Hpm_4 -> Hpm_2 hh_2)
1.87991219E-22	2	37	1000012	# BR(Hpm_4 -> Hpm_2 hh_3)
5.58095772E-22	2	37	1000014	# BR(Hpm_4 -> Hpm_2 hh_4)
7.22015502E-12	2	37	1000016	# BR(Hpm_4 -> Hpm_2 hh_5)
6.26262063E-21	2	1000011	25	# BR(Hpm_4 -> Hpm_3 hh_1)
1.54242109E-21	2	1000011	35	# BR(Hpm_4 -> Hpm_3 hh_2)
1.16282765E-21	2	1000011	1000012	# BR(Hpm_4 -> Hpm_3 hh_3)
9.13964029E-23	2	1000011	1000014	# BR(Hpm_4 -> Hpm_3 hh_4)
1.84897477E-09	2	25	-24	# BR(Hpm_4 -> hh_1 Vwm)
2.18315661E-09	2	35	-24	# BR(Hpm_4 -> hh_2 Vwm)
1.55928753E-10	2	1000012	-24	# BR(Hpm_4 -> hh_3 Vwm)
1.13583503E-11	2	1000014	-24	# BR(Hpm_4 -> hh_4 Vwm)
4.94027784E-22	2	1000016	-24	# BR(Hpm_4 -> hh_5 Vwm)
9.12912123E-23	2	2000012	-24	# BR(Hpm_4 -> hh_6 Vwm)
3.87699655E-30	2	37	23	# BR(Hpm_4 -> Hpm_2 VZ)
3.76385765E-29	2	1000011	23	# BR(Hpm_4 -> Hpm_3 VZ)
2.09339316E-13	2	-24	23	# BR(Hpm_4 -> Vwm VZ)
DECAY	1000013	3.00644801E-01	# Hpm_5	
#	BR	NDA	ID1	ID2
3.90233421E-05	2	37	36	# BR(Hpm_5 -> Hpm_2 Ah_2)
1.01582118E-09	2	37	1000017	# BR(Hpm_5 -> Hpm_2 Ah_3)
1.01983555E-09	2	37	1000018	# BR(Hpm_5 -> Hpm_2 Ah_4)
4.07027132E-18	2	37	1000019	# BR(Hpm_5 -> Hpm_2 Ah_5)
4.10325793E-16	2	37	2000018	# BR(Hpm_5 -> Hpm_2 Ah_6)
6.93705587E-21	2	37	2000019	# BR(Hpm_5 -> Hpm_2 Ah_7)
3.42442695E-27	2	1000011	36	# BR(Hpm_5 -> Hpm_3 Ah_2)
3.27541119E-28	2	1000011	1000017	# BR(Hpm_5 -> Hpm_3 Ah_3)
2.91567322E-28	2	1000011	1000018	# BR(Hpm_5 -> Hpm_3 Ah_4)
3.28859326E-16	2	1000011	1000019	# BR(Hpm_5 -> Hpm_3 Ah_5)
4.10672680E-18	2	1000011	2000018	# BR(Hpm_5 -> Hpm_3 Ah_6)
1.84752946E-28	2	2000011	36	# BR(Hpm_5 -> Hpm_4 Ah_2)
2.57312215E-28	2	2000011	1000017	# BR(Hpm_5 -> Hpm_4 Ah_3)
1.36615486E-29	2	2000011	1000018	# BR(Hpm_5 -> Hpm_4 Ah_4)
9.17389411E-20	2	2000011	1000019	# BR(Hpm_5 -> Hpm_4 Ah_5)
4.16241275E-15	2	36	-24	# BR(Hpm_5 -> Ah_2 Vwm)
3.04558921E-17	2	1000017	-24	# BR(Hpm_5 -> Ah_3 Vwm)
4.56355224E-16	2	1000018	-24	# BR(Hpm_5 -> Ah_4 Vwm)
2.01841018E-04	2	1000019	-24	# BR(Hpm_5 -> Ah_5 Vwm)
6.38242513E-27	2	2000018	-24	# BR(Hpm_5 -> Ah_6 Vwm)
1.02986122E-28	2	2000019	-24	# BR(Hpm_5 -> Ah_7 Vwm)
1.56747412E-15	2	12	11	# BR(Hpm_5 -> Chi_1 Cha_1)
6.56321939E-15	2	12	13	# BR(Hpm_5 -> Chi_1 Cha_2)
1.21872523E-14	2	12	15	# BR(Hpm_5 -> Chi_1 Cha_3)
2.78401279E-02	2	12	-1000024	# BR(Hpm_5 -> Chi_1 Cha_4)
3.65361258E-15	2	14	11	# BR(Hpm_5 -> Chi_2 Cha_1)
1.52981187E-14	2	14	13	# BR(Hpm_5 -> Chi_2 Cha_2)
1.09848051E-13	2	14	15	# BR(Hpm_5 -> Chi_2 Cha_3)
6.48923263E-02	2	14	-1000024	# BR(Hpm_5 -> Chi_2 Cha_4)
7.84793570E-16	2	16	11	# BR(Hpm_5 -> Chi_3 Cha_1)
3.28639487E-15	2	16	13	# BR(Hpm_5 -> Chi_3 Cha_2)
2.49412107E-13	2	16	15	# BR(Hpm_5 -> Chi_3 Cha_3)
1.39388288E-02	2	16	-1000024	# BR(Hpm_5 -> Chi_3 Cha_4)
3.15041558E-29	2	1000022	11	# BR(Hpm_5 -> Chi_4 Cha_1)
3.17647497E-28	2	1000022	13	# BR(Hpm_5 -> Chi_4 Cha_2)
1.90558410E-05	2	1000022	15	# BR(Hpm_5 -> Chi_4 Cha_3)
3.02882021E-16	2	1000022	-1000024	# BR(Hpm_5 -> Chi_4 Cha_4)
5.45101976E-29	2	1000023	11	# BR(Hpm_5 -> Chi_5 Cha_1)
4.35666938E-29	2	1000023	13	# BR(Hpm_5 -> Chi_5 Cha_2)
2.23593474E-05	2	1000023	15	# BR(Hpm_5 -> Chi_5 Cha_3)
1.91026027E-15	2	1000023	-1000024	# BR(Hpm_5 -> Chi_5 Cha_4)
3.38381664E-29	2	1000025	11	# BR(Hpm_5 -> Chi_6 Cha_1)
8.76480622E-28	2	1000025	13	# BR(Hpm_5 -> Chi_6 Cha_2)
4.67619029E-03	2	1000025	15	# BR(Hpm_5 -> Chi_6 Cha_3)
1.72318003E-14	2	1000025	-1000024	# BR(Hpm_5 -> Chi_6 Cha_4)
2.40782286E-25	2	1000039	11	# BR(Hpm_5 -> Chi_7 Cha_1)
1.02121827E-24	2	1000039	13	# BR(Hpm_5 -> Chi_7 Cha_2)

9.98913142E-02	2	1000039	15	# BR(Hpm_5 -> Chi_7 Cha_3)
1.31510990E-15	2	1000039	-1000024	# BR(Hpm_5 -> Chi_7 Cha_4)
2.24807823E-25	2	1000045	11	# BR(Hpm_5 -> Chi_8 Cha_1)
9.48023378E-25	2	1000045	13	# BR(Hpm_5 -> Chi_8 Cha_2)
5.50208256E-02	2	1000045	15	# BR(Hpm_5 -> Chi_8 Cha_3)
8.02832391E-16	2	1000045	-1000024	# BR(Hpm_5 -> Chi_8 Cha_4)
3.71940620E-29	2	1000055	11	# BR(Hpm_5 -> Chi_9 Cha_1)
1.15444202E-25	2	1000055	13	# BR(Hpm_5 -> Chi_9 Cha_2)
7.32809538E-01	2	1000055	15	# BR(Hpm_5 -> Chi_9 Cha_3)
7.05957934E-22	2	-2	1	# BR(Hpm_5 -> Fu_1^* Fd_1)
1.35785029E-20	2	-2	3	# BR(Hpm_5 -> Fu_1^* Fd_2)
8.42189721E-21	2	-2	5	# BR(Hpm_5 -> Fu_1^* Fd_3)
4.29722504E-21	2	-4	1	# BR(Hpm_5 -> Fu_2^* Fd_1)
3.32876213E-19	2	-4	3	# BR(Hpm_5 -> Fu_2^* Fd_2)
1.21788567E-18	2	-4	5	# BR(Hpm_5 -> Fu_2^* Fd_3)
2.20302191E-19	2	-6	1	# BR(Hpm_5 -> Fu_3^* Fd_1)
1.04190020E-17	2	-6	3	# BR(Hpm_5 -> Fu_3^* Fd_2)
6.88722612E-15	2	-6	5	# BR(Hpm_5 -> Fu_3^* Fd_3)
5.63508411E-05	2	37	25	# BR(Hpm_5 -> Hpm_2 hh_1)
7.44861304E-07	2	37	35	# BR(Hpm_5 -> Hpm_2 hh_2)
5.97959505E-07	2	37	1000012	# BR(Hpm_5 -> Hpm_2 hh_3)
1.91410515E-04	2	37	1000014	# BR(Hpm_5 -> Hpm_2 hh_4)
1.64831050E-15	2	37	1000016	# BR(Hpm_5 -> Hpm_2 hh_5)
5.14193257E-16	2	37	2000012	# BR(Hpm_5 -> Hpm_2 hh_6)
6.43199585E-21	2	37	2000014	# BR(Hpm_5 -> Hpm_2 hh_7)
4.50918058E-27	2	1000011	25	# BR(Hpm_5 -> Hpm_3 hh_1)
1.34706364E-28	2	1000011	35	# BR(Hpm_5 -> Hpm_3 hh_2)
8.66203556E-28	2	1000011	1000012	# BR(Hpm_5 -> Hpm_3 hh_3)
9.55802911E-27	2	1000011	1000014	# BR(Hpm_5 -> Hpm_3 hh_4)
3.28859326E-16	2	1000011	1000016	# BR(Hpm_5 -> Hpm_3 hh_5)
4.10672680E-18	2	1000011	2000012	# BR(Hpm_5 -> Hpm_3 hh_6)
1.16594471E-27	2	2000011	25	# BR(Hpm_5 -> Hpm_4 hh_1)
1.47838038E-28	2	2000011	35	# BR(Hpm_5 -> Hpm_4 hh_2)
6.07805065E-30	2	2000011	1000012	# BR(Hpm_5 -> Hpm_4 hh_3)
6.08438652E-30	2	2000011	1000014	# BR(Hpm_5 -> Hpm_4 hh_4)
9.17389411E-20	2	2000011	1000016	# BR(Hpm_5 -> Hpm_4 hh_5)
3.84905396E-15	2	25	-24	# BR(Hpm_5 -> hh_1 Vwm)
4.69772394E-18	2	35	-24	# BR(Hpm_5 -> hh_2 Vwm)
2.05037086E-16	2	1000012	-24	# BR(Hpm_5 -> hh_3 Vwm)
1.45400298E-15	2	1000014	-24	# BR(Hpm_5 -> hh_4 Vwm)
2.01841018E-04	2	1000016	-24	# BR(Hpm_5 -> hh_5 Vwm)
1.01915213E-26	2	2000012	-24	# BR(Hpm_5 -> hh_6 Vwm)
1.54811128E-28	2	2000014	-24	# BR(Hpm_5 -> hh_7 Vwm)
1.97622441E-04	2	37	23	# BR(Hpm_5 -> Hpm_2 VZ)
2.96726860E-27	2	1000011	23	# BR(Hpm_5 -> Hpm_3 VZ)
3.14965234E-30	2	2000011	23	# BR(Hpm_5 -> Hpm_4 VZ)
2.80483106E-20	2	-24	23	# BR(Hpm_5 -> Vwm VZ)
DECAY	2000013	2.37306373E-01	# Hpm_6	
#	BR	NDA	ID1	ID2
1.12768783E-29	2	37	36	# BR(Hpm_6 -> Hpm_2 Ah_2)
5.59141839E-29	2	37	1000017	# BR(Hpm_6 -> Hpm_2 Ah_3)
6.34596963E-29	2	37	1000018	# BR(Hpm_6 -> Hpm_2 Ah_4)
7.34484411E-21	2	37	1000019	# BR(Hpm_6 -> Hpm_2 Ah_5)
8.52145458E-17	2	37	2000018	# BR(Hpm_6 -> Hpm_2 Ah_6)
1.79660777E-06	2	1000011	36	# BR(Hpm_6 -> Hpm_3 Ah_2)
2.56209122E-11	2	1000011	1000017	# BR(Hpm_6 -> Hpm_3 Ah_3)
2.56587925E-11	2	1000011	1000018	# BR(Hpm_6 -> Hpm_3 Ah_4)
1.00667369E-16	2	1000011	1000019	# BR(Hpm_6 -> Hpm_3 Ah_5)
3.45196176E-19	2	1000011	2000018	# BR(Hpm_6 -> Hpm_3 Ah_6)
4.10212323E-30	2	2000011	36	# BR(Hpm_6 -> Hpm_4 Ah_2)
5.32256455E-30	2	2000011	1000017	# BR(Hpm_6 -> Hpm_4 Ah_3)
1.65003084E-30	2	2000011	1000018	# BR(Hpm_6 -> Hpm_4 Ah_4)
6.43238969E-18	2	36	-24	# BR(Hpm_6 -> Ah_2 Vwm)
1.08322259E-17	2	1000017	-24	# BR(Hpm_6 -> Ah_3 Vwm)
1.05969212E-17	2	1000018	-24	# BR(Hpm_6 -> Ah_4 Vwm)
5.83840627E-30	2	1000019	-24	# BR(Hpm_6 -> Ah_5 Vwm)
1.60604470E-05	2	2000018	-24	# BR(Hpm_6 -> Ah_6 Vwm)
3.80209360E-30	2	2000019	-24	# BR(Hpm_6 -> Ah_7 Vwm)
1.69485098E-18	2	12	11	# BR(Hpm_6 -> Chi_1 Cha_1)
1.51739143E-15	2	12	13	# BR(Hpm_6 -> Chi_1 Cha_2)
3.75340075E-19	2	12	15	# BR(Hpm_6 -> Chi_1 Cha_3)
3.04103561E-05	2	12	-1000024	# BR(Hpm_6 -> Chi_1 Cha_4)
1.81304773E-18	2	14	11	# BR(Hpm_6 -> Chi_2 Cha_1)

1.46641412E-13	2		14	13	# BR(Hpm_6 -> Chi_2 Cha_2)
4.04312298E-19	2		14	15	# BR(Hpm_6 -> Chi_2 Cha_3)
3.25311356E-05	2		14	-1000024	# BR(Hpm_6 -> Chi_2 Cha_4)
2.25165022E-17	2		16	11	# BR(Hpm_6 -> Chi_3 Cha_1)
2.96219486E-13	2		16	13	# BR(Hpm_6 -> Chi_3 Cha_2)
4.95813447E-18	2		16	15	# BR(Hpm_6 -> Chi_3 Cha_3)
4.04008880E-04	2		16	-1000024	# BR(Hpm_6 -> Chi_3 Cha_4)
1.77483042E-25	2	1000022		11	# BR(Hpm_6 -> Chi_4 Cha_1)
2.40646064E-05	2	1000022		13	# BR(Hpm_6 -> Chi_4 Cha_2)
6.97700311E-30	2	1000022		15	# BR(Hpm_6 -> Chi_4 Cha_3)
2.34367863E-16	2	1000022		-1000024	# BR(Hpm_6 -> Chi_4 Cha_4)
2.08403960E-25	2	1000023		11	# BR(Hpm_6 -> Chi_5 Cha_1)
2.82576101E-05	2	1000023		13	# BR(Hpm_6 -> Chi_5 Cha_2)
7.27772099E-30	2	1000023		15	# BR(Hpm_6 -> Chi_5 Cha_3)
2.51255218E-16	2	1000023		-1000024	# BR(Hpm_6 -> Chi_5 Cha_4)
4.36916779E-23	2	1000025		11	# BR(Hpm_6 -> Chi_6 Cha_1)
5.92450819E-03	2	1000025		13	# BR(Hpm_6 -> Chi_6 Cha_2)
9.27299872E-28	2	1000025		15	# BR(Hpm_6 -> Chi_6 Cha_3)
1.61002627E-18	2	1000025		-1000024	# BR(Hpm_6 -> Chi_6 Cha_4)
4.31380491E-22	2	1000039		11	# BR(Hpm_6 -> Chi_7 Cha_1)
5.87287943E-02	2	1000039		13	# BR(Hpm_6 -> Chi_7 Cha_2)
1.7555835E-26	2	1000039		15	# BR(Hpm_6 -> Chi_7 Cha_3)
1.04927547E-18	2	1000039		-1000024	# BR(Hpm_6 -> Chi_7 Cha_4)
3.93878886E-23	2	1000045		11	# BR(Hpm_6 -> Chi_8 Cha_1)
5.56399862E-03	2	1000045		13	# BR(Hpm_6 -> Chi_8 Cha_2)
8.75254294E-27	2	1000045		15	# BR(Hpm_6 -> Chi_8 Cha_3)
3.57759040E-19	2	1000045		-1000024	# BR(Hpm_6 -> Chi_8 Cha_4)
6.85257288E-21	2	1000055		11	# BR(Hpm_6 -> Chi_9 Cha_1)
9.29195401E-01	2	1000055		13	# BR(Hpm_6 -> Chi_9 Cha_2)
1.46291366E-25	2	1000055		15	# BR(Hpm_6 -> Chi_9 Cha_3)
4.81558764E-26	2	-2		1	# BR(Hpm_6 -> Fu_1^* Fd_1)
9.19642571E-25	2	-2		3	# BR(Hpm_6 -> Fu_1^* Fd_2)
5.70385441E-25	2	-2		5	# BR(Hpm_6 -> Fu_1^* Fd_3)
4.65886970E-24	2	-4		1	# BR(Hpm_6 -> Fu_2^* Fd_1)
1.04082226E-22	2	-4		3	# BR(Hpm_6 -> Fu_2^* Fd_2)
8.26291537E-23	2	-4		5	# BR(Hpm_6 -> Fu_2^* Fd_3)
2.40827343E-22	2	-6		1	# BR(Hpm_6 -> Fu_3^* Fd_1)
1.13892968E-20	2	-6		3	# BR(Hpm_6 -> Fu_3^* Fd_2)
6.84510625E-18	2	-6		5	# BR(Hpm_6 -> Fu_3^* Fd_3)
1.31954524E-29	2	37		25	# BR(Hpm_6 -> Hpm_2 hh_1)
6.45365621E-29	2	37		35	# BR(Hpm_6 -> Hpm_2 hh_2)
3.74360765E-29	2	37	1000012		# BR(Hpm_6 -> Hpm_2 hh_3)
8.26120818E-30	2	37	1000014		# BR(Hpm_6 -> Hpm_2 hh_4)
7.34484412E-21	2	37	1000016		# BR(Hpm_6 -> Hpm_2 hh_5)
8.52145458E-17	2	37	2000012		# BR(Hpm_6 -> Hpm_2 hh_6)
2.54270784E-06	2	1000011		25	# BR(Hpm_6 -> Hpm_3 hh_1)
3.56785905E-08	2	1000011		35	# BR(Hpm_6 -> Hpm_3 hh_2)
2.90457357E-08	2	1000011	1000012		# BR(Hpm_6 -> Hpm_3 hh_3)
1.59085888E-05	2	1000011	1000014		# BR(Hpm_6 -> Hpm_3 hh_4)
3.96960499E-16	2	1000011	1000016		# BR(Hpm_6 -> Hpm_3 hh_5)
1.87845857E-18	2	1000011	2000012		# BR(Hpm_6 -> Hpm_3 hh_6)
1.24276828E-29	2	2000011		25	# BR(Hpm_6 -> Hpm_4 hh_1)
1.30689921E-30	2	2000011		35	# BR(Hpm_6 -> Hpm_4 hh_2)
1.61352276E-30	2	2000011	1000012		# BR(Hpm_6 -> Hpm_4 hh_3)
2.05422650E-29	2	2000011	1000014		# BR(Hpm_6 -> Hpm_4 hh_4)
6.76914613E-18	2	25		-24	# BR(Hpm_6 -> hh_1 Vwm)
1.26585884E-17	2	35		-24	# BR(Hpm_6 -> hh_2 Vwm)
7.44492293E-18	2	1000012		-24	# BR(Hpm_6 -> hh_3 Vwm)
1.34314033E-18	2	1000014		-24	# BR(Hpm_6 -> hh_4 Vwm)
1.67540300E-28	2	1000016		-24	# BR(Hpm_6 -> hh_5 Vwm)
1.60604470E-05	2	2000012		-24	# BR(Hpm_6 -> hh_6 Vwm)
2.54952675E-30	2	2000014		-24	# BR(Hpm_6 -> hh_7 Vwm)
4.90576204E-29	2	37		23	# BR(Hpm_6 -> Hpm_2 VZ)
1.55919648E-05	2	1000011		23	# BR(Hpm_6 -> Hpm_3 VZ)
2.02895410E-30	2	2000011		23	# BR(Hpm_6 -> Hpm_4 VZ)
1.42865828E-21	2	-24		23	# BR(Hpm_6 -> Vwm VZ)
DECAY	1000015	2.37071427E-01	# Hpm_7		
#	BR	NDA	ID1	ID2	
5.42518529E-26	2		37	1000019	# BR(Hpm_7 -> Hpm_2 Ah_5)
1.05147873E-21	2		37	2000019	# BR(Hpm_7 -> Hpm_2 Ah_7)
1.32677887E-26	2		1000011	36	# BR(Hpm_7 -> Hpm_3 Ah_2)
3.22285221E-26	2		1000011	2000018	# BR(Hpm_7 -> Hpm_3 Ah_6)
2.60020293E-11	2		2000011	36	# BR(Hpm_7 -> Hpm_4 Ah_2)

3.64093760E-16	2	2000011	1000017	# BR(Hpm_7 -> Hpm_4 Ah_3)
3.64597139E-16	2	2000011	1000018	# BR(Hpm_7 -> Hpm_4 Ah_4)
1.25424947E-21	2	2000011	1000019	# BR(Hpm_7 -> Hpm_4 Ah_5)
4.49113368E-23	2	36	-24	# BR(Hpm_7 -> Ah_2 Vwm)
1.28131056E-22	2	1000017	-24	# BR(Hpm_7 -> Ah_3 Vwm)
9.27381788E-24	2	1000018	-24	# BR(Hpm_7 -> Ah_4 Vwm)
1.18690174E-25	2	2000018	-24	# BR(Hpm_7 -> Ah_6 Vwm)
2.19556297E-10	2	2000019	-24	# BR(Hpm_7 -> Ah_7 Vwm)
1.50895891E-15	2	12	11	# BR(Hpm_7 -> Chi_1 Cha_1)
1.62455958E-21	2	12	13	# BR(Hpm_7 -> Chi_1 Cha_2)
8.19630259E-23	2	12	15	# BR(Hpm_7 -> Chi_1 Cha_3)
7.04433978E-09	2	12	-1000024	# BR(Hpm_7 -> Chi_1 Cha_4)
1.46764309E-13	2	14	11	# BR(Hpm_7 -> Chi_2 Cha_1)
7.76242201E-22	2	14	13	# BR(Hpm_7 -> Chi_2 Cha_2)
3.91895882E-23	2	14	15	# BR(Hpm_7 -> Chi_2 Cha_3)
3.36590530E-09	2	14	-1000024	# BR(Hpm_7 -> Chi_2 Cha_4)
2.96519987E-13	2	16	11	# BR(Hpm_7 -> Chi_3 Cha_1)
9.93677653E-24	2	16	13	# BR(Hpm_7 -> Chi_3 Cha_2)
5.08335061E-25	2	16	15	# BR(Hpm_7 -> Chi_3 Cha_3)
4.30866647E-11	2	16	-1000024	# BR(Hpm_7 -> Chi_3 Cha_4)
2.40881625E-05	2	1000022	11	# BR(Hpm_7 -> Chi_4 Cha_1)
1.77646155E-25	2	1000022	13	# BR(Hpm_7 -> Chi_4 Cha_2)
2.62060072E-21	2	1000022	-1000024	# BR(Hpm_7 -> Chi_4 Cha_4)
2.82853479E-05	2	1000023	11	# BR(Hpm_7 -> Chi_5 Cha_1)
2.08599026E-25	2	1000023	13	# BR(Hpm_7 -> Chi_5 Cha_2)
1.33199378E-22	2	1000023	-1000024	# BR(Hpm_7 -> Chi_5 Cha_4)
5.93037990E-03	2	1000025	11	# BR(Hpm_7 -> Chi_6 Cha_1)
4.37350013E-23	2	1000025	13	# BR(Hpm_7 -> Chi_6 Cha_2)
2.61272649E-23	2	1000025	-1000024	# BR(Hpm_7 -> Chi_6 Cha_4)
5.85523060E-02	2	1000039	11	# BR(Hpm_7 -> Chi_7 Cha_1)
4.33539017E-22	2	1000039	13	# BR(Hpm_7 -> Chi_7 Cha_2)
5.20855343E-24	2	1000039	-1000024	# BR(Hpm_7 -> Chi_7 Cha_4)
5.34617746E-03	2	1000045	11	# BR(Hpm_7 -> Chi_8 Cha_1)
4.10739395E-23	2	1000045	13	# BR(Hpm_7 -> Chi_8 Cha_2)
1.68023967E-24	2	1000045	-1000024	# BR(Hpm_7 -> Chi_8 Cha_4)
9.30118752E-01	2	1000055	11	# BR(Hpm_7 -> Chi_9 Cha_1)
6.85937957E-21	2	1000055	13	# BR(Hpm_7 -> Chi_9 Cha_2)
5.87753760E-30	2	-2	3	# BR(Hpm_7 -> Fu_1^* Fd_2)
3.64538452E-30	2	-2	5	# BR(Hpm_7 -> Fu_1^* Fd_3)
3.43881873E-29	2	-4	1	# BR(Hpm_7 -> Fu_2^* Fd_1)
7.51311976E-28	2	-4	3	# BR(Hpm_7 -> Fu_2^* Fd_2)
5.28244512E-28	2	-4	5	# BR(Hpm_7 -> Fu_2^* Fd_3)
1.77773283E-27	2	-6	1	# BR(Hpm_7 -> Fu_3^* Fd_1)
8.40731773E-26	2	-6	3	# BR(Hpm_7 -> Fu_3^* Fd_2)
5.04828885E-23	2	-6	5	# BR(Hpm_7 -> Fu_3^* Fd_3)
5.42518529E-26	2	37	1000016	# BR(Hpm_7 -> Hpm_2 hh_5)
1.05147873E-21	2	37	2000014	# BR(Hpm_7 -> Hpm_2 hh_7)
1.87790430E-26	2	1000011	25	# BR(Hpm_7 -> Hpm_3 hh_1)
2.63006507E-28	2	1000011	35	# BR(Hpm_7 -> Hpm_3 hh_2)
2.14286672E-28	2	1000011	1000012	# BR(Hpm_7 -> Hpm_3 hh_3)
1.17467246E-25	2	1000011	1000014	# BR(Hpm_7 -> Hpm_3 hh_4)
3.22284617E-26	2	1000011	2000012	# BR(Hpm_7 -> Hpm_3 hh_6)
3.64642866E-11	2	2000011	25	# BR(Hpm_7 -> Hpm_4 hh_1)
5.10821057E-13	2	2000011	35	# BR(Hpm_7 -> Hpm_4 hh_2)
4.15681175E-13	2	2000011	1000012	# BR(Hpm_7 -> Hpm_4 hh_3)
2.21551056E-10	2	2000011	1000014	# BR(Hpm_7 -> Hpm_4 hh_4)
4.95228218E-21	2	2000011	1000016	# BR(Hpm_7 -> Hpm_4 hh_5)
6.67277250E-23	2	25	-24	# BR(Hpm_7 -> hh_1 Vwm)
1.02818010E-22	2	35	-24	# BR(Hpm_7 -> hh_2 Vwm)
7.73845930E-24	2	1000012	-24	# BR(Hpm_7 -> hh_3 Vwm)
5.91820004E-25	2	1000014	-24	# BR(Hpm_7 -> hh_4 Vwm)
1.18686495E-25	2	2000012	-24	# BR(Hpm_7 -> hh_6 Vwm)
2.19556297E-10	2	2000014	-24	# BR(Hpm_7 -> hh_7 Vwm)
1.15223542E-25	2	1000011	23	# BR(Hpm_7 -> Hpm_3 VZ)
2.07522509E-10	2	2000011	23	# BR(Hpm_7 -> Hpm_4 VZ)
1.04406438E-26	2	-24	23	# BR(Hpm_7 -> Vwm VZ)
DECAY	2000015	1.68646807E+01	# Hpm_8	
#	BR	NDA	ID1	ID2
9.66377149E-13	2	37	36	# BR(Hpm_8 -> Hpm_2 Ah_2)
8.96911683E-17	2	37	1000017	# BR(Hpm_8 -> Hpm_2 Ah_3)
1.97226357E-15	2	37	1000018	# BR(Hpm_8 -> Hpm_2 Ah_4)
1.31290447E-04	2	37	1000019	# BR(Hpm_8 -> Hpm_2 Ah_5)
2.44055766E-25	2	37	2000018	# BR(Hpm_8 -> Hpm_2 Ah_6)

2.26614077E-26	2	37	2000019	# BR(Hpm_8 -> Hpm_2 Ah_7)
3.84424218E-13	2	1000011	36	# BR(Hpm_8 -> Hpm_3 Ah_2)
2.85665140E-15	2	1000011	1000017	# BR(Hpm_8 -> Hpm_3 Ah_3)
3.25465763E-15	2	1000011	1000018	# BR(Hpm_8 -> Hpm_3 Ah_4)
3.30132158E-25	2	1000011	1000019	# BR(Hpm_8 -> Hpm_3 Ah_5)
1.02768111E-04	2	1000011	2000018	# BR(Hpm_8 -> Hpm_3 Ah_6)
7.56781052E-27	2	1000011	2000019	# BR(Hpm_8 -> Hpm_3 Ah_7)
2.45901613E-14	2	2000011	36	# BR(Hpm_8 -> Hpm_4 Ah_2)
7.31391711E-15	2	2000011	1000017	# BR(Hpm_8 -> Hpm_4 Ah_3)
5.51560451E-16	2	2000011	1000018	# BR(Hpm_8 -> Hpm_4 Ah_4)
3.67137127E-26	2	2000011	1000019	# BR(Hpm_8 -> Hpm_4 Ah_5)
9.24574872E-27	2	2000011	2000018	# BR(Hpm_8 -> Hpm_4 Ah_6)
2.04353139E-16	2	1000013	36	# BR(Hpm_8 -> Hpm_5 Ah_2)
3.87894553E-17	2	1000013	1000017	# BR(Hpm_8 -> Hpm_5 Ah_3)
5.44476326E-16	2	1000013	1000018	# BR(Hpm_8 -> Hpm_5 Ah_4)
1.49101059E-04	2	1000013	1000019	# BR(Hpm_8 -> Hpm_5 Ah_5)
4.02731721E-21	2	2000013	36	# BR(Hpm_8 -> Hpm_6 Ah_2)
7.10676794E-21	2	2000013	1000017	# BR(Hpm_8 -> Hpm_6 Ah_3)
6.94480139E-21	2	2000013	1000018	# BR(Hpm_8 -> Hpm_6 Ah_4)
2.29370503E-30	2	2000013	1000019	# BR(Hpm_8 -> Hpm_6 Ah_5)
1.78766365E-26	2	1000015	36	# BR(Hpm_8 -> Hpm_7 Ah_2)
7.57972385E-26	2	1000015	1000017	# BR(Hpm_8 -> Hpm_7 Ah_3)
5.48977652E-27	2	1000015	1000018	# BR(Hpm_8 -> Hpm_7 Ah_4)
1.92195587E-01	2	36	-24	# BR(Hpm_8 -> Ah_2 Vwm)
1.98196048E-06	2	1000017	-24	# BR(Hpm_8 -> Ah_3 Vwm)
1.97876727E-06	2	1000018	-24	# BR(Hpm_8 -> Ah_4 Vwm)
1.17514532E-13	2	1000019	-24	# BR(Hpm_8 -> Ah_5 Vwm)
5.01297447E-14	2	2000018	-24	# BR(Hpm_8 -> Ah_6 Vwm)
5.89524839E-15	2	2000019	-24	# BR(Hpm_8 -> Ah_7 Vwm)
1.36529854E-10	2	12	11	# BR(Hpm_8 -> Chi_1 Cha_1)
5.89427403E-07	2	12	13	# BR(Hpm_8 -> Chi_1 Cha_2)
6.82651913E-04	2	12	15	# BR(Hpm_8 -> Chi_1 Cha_3)
6.76790160E-17	2	12	-1000024	# BR(Hpm_8 -> Chi_1 Cha_4)
6.52362871E-11	2	14	11	# BR(Hpm_8 -> Chi_2 Cha_1)
6.30533320E-07	2	14	13	# BR(Hpm_8 -> Chi_2 Cha_2)
1.59118776E-03	2	14	15	# BR(Hpm_8 -> Chi_2 Cha_3)
1.42755334E-15	2	14	-1000024	# BR(Hpm_8 -> Chi_2 Cha_4)
8.35084533E-13	2	16	11	# BR(Hpm_8 -> Chi_3 Cha_1)
7.83068455E-06	2	16	13	# BR(Hpm_8 -> Chi_3 Cha_2)
3.41786080E-04	2	16	15	# BR(Hpm_8 -> Chi_3 Cha_3)
2.83071001E-15	2	16	-1000024	# BR(Hpm_8 -> Chi_3 Cha_4)
1.99621550E-15	2	1000022	11	# BR(Hpm_8 -> Chi_4 Cha_1)
4.08193476E-15	2	1000022	13	# BR(Hpm_8 -> Chi_4 Cha_2)
3.77846954E-17	2	1000022	15	# BR(Hpm_8 -> Chi_4 Cha_3)
1.61460017E-03	2	1000022	-1000024	# BR(Hpm_8 -> Chi_4 Cha_4)
1.03043671E-16	2	1000023	11	# BR(Hpm_8 -> Chi_5 Cha_1)
4.47053928E-15	2	1000023	13	# BR(Hpm_8 -> Chi_5 Cha_2)
2.21746162E-16	2	1000023	15	# BR(Hpm_8 -> Chi_5 Cha_3)
1.88460202E-03	2	1000023	-1000024	# BR(Hpm_8 -> Chi_5 Cha_4)
4.71978487E-17	2	1000025	11	# BR(Hpm_8 -> Chi_6 Cha_1)
7.64522794E-17	2	1000025	13	# BR(Hpm_8 -> Chi_6 Cha_2)
1.80695537E-15	2	1000025	15	# BR(Hpm_8 -> Chi_6 Cha_3)
3.79142100E-01	2	1000025	-1000024	# BR(Hpm_8 -> Chi_6 Cha_4)
4.38079820E-16	2	1000039	11	# BR(Hpm_8 -> Chi_7 Cha_1)
3.16566047E-15	2	1000039	13	# BR(Hpm_8 -> Chi_7 Cha_2)
6.06629071E-15	2	1000039	15	# BR(Hpm_8 -> Chi_7 Cha_3)
1.51681378E-02	2	1000039	-1000024	# BR(Hpm_8 -> Chi_7 Cha_4)
4.96076611E-16	2	1000045	11	# BR(Hpm_8 -> Chi_8 Cha_1)
3.29355364E-15	2	1000045	13	# BR(Hpm_8 -> Chi_8 Cha_2)
5.52429374E-15	2	1000045	15	# BR(Hpm_8 -> Chi_8 Cha_3)
1.60494845E-02	2	1000045	-1000024	# BR(Hpm_8 -> Chi_8 Cha_4)
1.30685631E-15	2	1000055	11	# BR(Hpm_8 -> Chi_9 Cha_1)
4.26569177E-15	2	1000055	13	# BR(Hpm_8 -> Chi_9 Cha_2)
2.62324582E-16	2	1000055	15	# BR(Hpm_8 -> Chi_9 Cha_3)
1.41139377E-02	2	1000055	-1000024	# BR(Hpm_8 -> Chi_9 Cha_4)
1.47219238E-08	2	-2	1	# BR(Hpm_8 -> Fu_1^* Fd_1)
2.83115999E-07	2	-2	3	# BR(Hpm_8 -> Fu_1^* Fd_2)
1.75601175E-07	2	-2	5	# BR(Hpm_8 -> Fu_1^* Fd_3)
1.21215288E-07	2	-4	1	# BR(Hpm_8 -> Fu_2^* Fd_1)
7.53079096E-06	2	-4	3	# BR(Hpm_8 -> Fu_2^* Fd_2)
2.53946694E-05	2	-4	5	# BR(Hpm_8 -> Fu_2^* Fd_3)
6.35814073E-06	2	-6	1	# BR(Hpm_8 -> Fu_3^* Fd_1)
3.00699656E-04	2	-6	3	# BR(Hpm_8 -> Fu_3^* Fd_2)

1.93737790E-01	2	-6	5	# BR(Hpm_8 -> Fu_3^* Fd_3)
9.91539740E-13	2	37	25	# BR(Hpm_8 -> Hpm_2 hh_1)
1.43868074E-14	2	37	35	# BR(Hpm_8 -> Hpm_2 hh_2)
2.05705098E-14	2	37	1000012	# BR(Hpm_8 -> Hpm_2 hh_3)
9.45652805E-17	2	37	1000014	# BR(Hpm_8 -> Hpm_2 hh_4)
1.31290447E-04	2	37	1000016	# BR(Hpm_8 -> Hpm_2 hh_5)
3.08120505E-25	2	37	2000012	# BR(Hpm_8 -> Hpm_2 hh_6)
2.63365457E-26	2	37	2000014	# BR(Hpm_8 -> Hpm_2 hh_7)
4.73222859E-13	2	1000011	25	# BR(Hpm_8 -> Hpm_3 hh_1)
1.67552892E-14	2	1000011	35	# BR(Hpm_8 -> Hpm_3 hh_2)
3.31797254E-16	2	1000011	1000012	# BR(Hpm_8 -> Hpm_3 hh_3)
5.86648296E-17	2	1000011	1000014	# BR(Hpm_8 -> Hpm_3 hh_4)
4.28285472E-25	2	1000011	1000016	# BR(Hpm_8 -> Hpm_3 hh_5)
1.02768111E-04	2	1000011	2000012	# BR(Hpm_8 -> Hpm_3 hh_6)
8.69739532E-27	2	1000011	2000014	# BR(Hpm_8 -> Hpm_3 hh_7)
7.14948311E-14	2	2000011	25	# BR(Hpm_8 -> Hpm_4 hh_1)
2.82349950E-15	2	2000011	35	# BR(Hpm_8 -> Hpm_4 hh_2)
5.23423754E-19	2	2000011	1000012	# BR(Hpm_8 -> Hpm_4 hh_3)
1.98471970E-17	2	2000011	1000014	# BR(Hpm_8 -> Hpm_4 hh_4)
3.73061161E-26	2	2000011	1000016	# BR(Hpm_8 -> Hpm_4 hh_5)
9.97075581E-27	2	2000011	2000012	# BR(Hpm_8 -> Hpm_4 hh_6)
7.35766298E-17	2	1000013	25	# BR(Hpm_8 -> Hpm_5 hh_1)
3.76913835E-17	2	1000013	35	# BR(Hpm_8 -> Hpm_5 hh_2)
5.35702800E-16	2	1000013	1000012	# BR(Hpm_8 -> Hpm_5 hh_3)
5.21481603E-15	2	1000013	1000014	# BR(Hpm_8 -> Hpm_5 hh_4)
1.49101059E-04	2	1000013	1000016	# BR(Hpm_8 -> Hpm_5 hh_5)
2.10571049E-20	2	2000013	25	# BR(Hpm_8 -> Hpm_6 hh_1)
1.06262566E-20	2	2000013	35	# BR(Hpm_8 -> Hpm_6 hh_2)
4.03490588E-21	2	2000013	1000012	# BR(Hpm_8 -> Hpm_6 hh_3)
5.28216905E-20	2	2000013	1000014	# BR(Hpm_8 -> Hpm_6 hh_4)
4.42271976E-30	2	2000013	1000016	# BR(Hpm_8 -> Hpm_6 hh_5)
1.48157043E-25	2	1000015	25	# BR(Hpm_8 -> Hpm_7 hh_1)
5.27727718E-26	2	1000015	35	# BR(Hpm_8 -> Hpm_7 hh_2)
2.43459169E-27	2	1000015	1000012	# BR(Hpm_8 -> Hpm_7 hh_3)
2.38017015E-25	2	1000015	1000014	# BR(Hpm_8 -> Hpm_7 hh_4)
1.78064381E-01	2	25	-24	# BR(Hpm_8 -> hh_1 VWm)
2.15112075E-03	2	35	-24	# BR(Hpm_8 -> hh_2 VWm)
1.68669537E-03	2	1000012	-24	# BR(Hpm_8 -> hh_3 VWm)
4.56020462E-04	2	1000014	-24	# BR(Hpm_8 -> hh_4 VWm)
1.51235235E-13	2	1000016	-24	# BR(Hpm_8 -> hh_5 VWm)
6.62928188E-14	2	2000012	-24	# BR(Hpm_8 -> hh_6 VWm)
7.21749329E-15	2	2000014	-24	# BR(Hpm_8 -> hh_7 VWm)
7.18206110E-21	2	37	23	# BR(Hpm_8 -> Hpm_2 VZ)
1.59739276E-26	2	1000011	23	# BR(Hpm_8 -> Hpm_3 VZ)
1.17732712E-15	2	1000013	23	# BR(Hpm_8 -> Hpm_5 VZ)
3.51848570E-20	2	2000013	23	# BR(Hpm_8 -> Hpm_6 VZ)
1.85826141E-25	2	1000015	23	# BR(Hpm_8 -> Hpm_7 VZ)
8.76977438E-09	2	-24	23	# BR(Hpm_8 -> VWm VZ)