```
----------------------------------
A0 =   100.0000
M0 =   100.0000
M1/2 =   100.0000
tanb =     4.0000
----------------------------------




                        ***  mu > 0   ***


---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 3.491615467703487E+16Msigma=  3.491615467703487E+16Mvector=
 3.491615467703487E+16H3min=  2.123729776093682E+17
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 3.126704399932480E+16Msigma=  3.126704399932480E+16Mvector=
 3.126704399932480E+16H3min=  2.319212682588754E+17
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------
```



```
MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 3.302704020123641E+16Msigma=  3.302704020123641E+16Mvector=
 3.302704020123641E+16H3min=  2.287274038624326E+17
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .3491615D+17 Msigma=   .3491615D+17
 Mvector=   .3491615D+17 H3min=   .2123730D+18
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .3126705D+17 Msigma=   .3126705D+17
 Mvector=   .3126705D+17 H3min=   .2319213D+18
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .3302705D+17 Msigma=   .3302705D+17
 Mvector=   .3302705D+17 H3min=   .2287274D+18
```

```
 *****  is RULED OUT from PROTON DECAY  ****


                       ***  mu < 0   ***



---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 3.491615467703583E+16Msigma=  3.491615467703583E+16Mvector=
 3.491615467703583E+16H3min=  2.123729776093684E+17
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 4.766145463993682E+16Msigma=  4.766145463993682E+16Mvector=
 4.766145463993682E+16H3min=  2.112048105902618E+17
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  100.0Mo=  100.0M1/2=  100.0M_H_c=
 4.896744919603675E+16Msigma=  4.896744919603675E+16Mvector=
 4.896744919603675E+16H3min=  2.099149588770859E+17
 *****  is RULED OUT from PROTON DECAY  ****
```



```
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .3491615D+17 Msigma=   .3491615D+17
 Mvector=   .3491615D+17 H3min=   .2123730D+18
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .4766145D+17 Msigma=   .4766145D+17
 Mvector=   .4766145D+17 H3min=   .2112048D+18
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                 CASE with
  M_H_c =   .4896746D+17 Msigma=   .4896746D+17
 Mvector=   .4896746D+17 H3min=   .2099149D+18
 *****  is RULED OUT from PROTON DECAY  ****

> > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > 

----------------------------------
A0 =   600.0000
M0 =   600.0000
```

```
M1/2 =   600.0000
tanb =     4.0000
----------------------------------



                        ***  mu > 0   ***


---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 3.491615467704361E+16Msigma=  3.491615467704361E+16Mvector=
 3.491615467704361E+16H3min=  3.539549626822692E+16
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 1.367335889674086E+16Msigma=  1.367335889674086E+16Mvector=
 1.367335889674086E+16H3min=  5.108945651198787E+16
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some b hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK
```



```
 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 1.397763878919122E+16Msigma=  1.397763878919122E+16Mvector=
 1.397763878919122E+16H3min=  5.068586461256668E+16
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .3491615D+17 Msigma=   .3491615D+17
 Mvector=   .3491615D+17 H3min=   .3539550D+17
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .1367334D+17 Msigma=   .1367334D+17
 Mvector=   .1367334D+17 H3min=   .5108946D+17
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some b hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .1397722D+17 Msigma=   .1397722D+17
 Mvector=   .1397722D+17 H3min=   .5068614D+17
 *****  is RULED OUT from PROTON DECAY  ****
```

```
                        ***  mu < 0   ***


---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 3.491615467704661E+16Msigma=  3.491615467704661E+16Mvector=
 3.491615467704661E+16H3min=  3.539549626822686E+16
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 1.380906414368900E+16Msigma=  1.380906414368900E+16Mvector=
 1.380906414368900E+16H3min=  5.102789283494005E+16
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some b hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


 CASE with Ao=  600.0Mo=  600.0M1/2=  600.0M_H_c=
 1.412143222633475E+16Msigma=  1.412143222633475E+16Mvector=
 1.412143222633475E+16H3min=  5.062157155199670E+16
 *****  is RULED OUT from PROTON DECAY  ****
```



```
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .3491615D+17 Msigma=   .3491615D+17
 Mvector=   .3491615D+17 H3min=   .3539550D+17
 *****  is RULED OUT from PROTON DECAY  ****
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .1380910D+17 Msigma=   .1380910D+17
 Mvector=   .1380910D+17 H3min=   .5102787D+17
 *****  is RULED OUT from PROTON DECAY  ****
 some a hig^2 < 0
 some b hig^2 < 0
 some c hig^2 < 0
---------  PASS 1  ----------
---------  PASS 2  ----------
    --- PASS TOP / GLUINO ---
---------  PASS HIGGS  ----------
---------  PASS NEUCHA  ----------
---------  PASS SQ3  ----------
---------  PASS SQ12  ----------
---------  PASS SLE3  ----------
---------  PASS SLE12  ----------


MASS ORDERING FOR SUPERHEAVIES IS OK


                CASE with
  M_H_c =   .1412142D+17 Msigma=   .1412142D+17
 Mvector=   .1412142D+17 H3min=   .5062157D+17
 *****  is RULED OUT from PROTON DECAY  ****

> > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > > >
```