EW Corrections

1)
```
import model_v4 mssm
define F = e+ e- ve ve~
generate n1 n1 > w- w+ , w- > F F , w+ > F F $ w- w+
add process n1 n1 > w- w+ z, w- > F F , w+ > F F , z > F F$ w- w+ z
output n1n1_WWZtoFFFFFF
```

```
#          PDG          Width
DECAY      23      2.41143316E+00   # Z width (SM calculation)
DECAY      24      2.00282196E+00   # W width (SM calculation)
#
```
OK

Here F = only leptons of the 1st family (electrons,etc.)

```
#          PDG          Width
DECAY      23      0.0E+00   # Z width (SM calculation)
DECAY      24      0.0E+00   # W width (SM calculation)
#
```

EW Corrections

2)
```
import model_v4 mssm
define F = d u s c d~ u~ s~ c~  e- mu- ve vm vt e+ mu+ ve~ vm~ vt~ ta- ta+
generate n1 n1 > w- w+ , w- > F F , w+ > F F $ w- w+
output n1n1_Woff_Fermions
```

```
DECAY        23      0.0E+00    # Z width (SM calculation)
DECAY        24      2.00282196E+00   # W width (SM calculation)
```

OK

EW Corrections

3)
```
import model_v4 mssm
define F = e- e+ ve ve~
generate n1 n1 > F F F F
```

Crash

```
Traceback (most recent call last):
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/extended_cmd.py", line 1457, in onecmd
    return self.onecmd_orig(line, **opt)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/extended_cmd.py", line 1411, in onecmd_orig
    return func(arg, **opt)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/madevent_interface.py", line 2458, in
do_generate_events
    self.exec_cmd('refine %s' % nb_event, postcmd=False)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/extended_cmd.py", line 1484, in exec_cmd
    stop = Cmd.onecmd_orig(current_interface, line, **opt)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/extended_cmd.py", line 1411, in onecmd_orig
    return func(arg, **opt)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/interface/madevent_interface.py", line 3392, in do_refine
    x_improve.launch() # create the ajob for the refinment.
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/madevent/gen_ximprove.py", line 858, in launch
    self.results = sum_html.collect_result(self.cmd, None)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/madevent/sum_html.py", line 710, in collect_result
    P_comb.add_results(name, pjoin(P_path,name,'results.dat'), mfactor)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/madevent/sum_html.py", line 412, in add_results
    oneresult.read_results(filepath)
  File "/home/users/f/a/fambrogi/maddm_dev2_2/madgraph/madevent/sum_html.py", line 306, in read_results
    self.xsec = data[:10]
ValueError: need more than 5 values to unpack
```

EW Corrections

4)
```
import model_v4 mssm
define F = d u s c d~ u~ s~ c~ a e- mu- ve vm vt e+ mu+ ve~ vm~ vt~ ta- ta+
generate n1 n1 > w- w+, w- > F F , w+ > F F  $ w- w+
add process n1 n1 > w- w+ z , w- > F F , w+ > F F , z > F F $ w- w+ z
```

Here F = any Fermion except tops

Crashes immediately after launch

"launch n1n1_wwz_to_FFFFFF" with error:
Exception : 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022,
1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022, 1000022 can not be mapped
to an integer
Please report this bug on https://bugs.launchpad.net/mg5amcnlo
More information is found in 'MG5_debug'.
Please attach this file to your report.

EW Corrections

5)
```
define F = d u s c d~ u~ s~ c~ a e- mu- ve vm vt e+ mu+ ve~ vm~ vt~ ta- ta+ b b~
generate n1 n1 > w- w+ , w- > F F , w- > F F $ w- w+
add process n1 n1 > w- w+ F F, w- > F F , w+ > F F $ w- w+ z
output n1n1_to_WWFF
```

Crashes immediately after launch
Same error as previous