

# Questions and Issues

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# Running jobs

- Decided last meeting to focus on dim8 operators
  - Started to run jobs for the WWW, WWZ and WZZ all leptonic channels
- Used instructions from mailing list:
  - 1. Download SM\_LM0123\_UFO.tgz
  - 2. Install SM\_LM0123\_UFO to MadGraph/models
    - > tar xzf SM\_LM0123\_UFO.tgz
    - > mv SM\_LM0123\_UFO MadGraph/models
  - 3. Import the model
    - > cd MadGraph
    - > ./bin/mg5
    - > import model SM\_LM0123\_UFO

# First problem

- Tried to customize to run with couplings off to get the SM files

- `mg5>customize_model`

Command "customize\_model " interrupted in sub-command:

"customize\_model" with error:

InvalidCmd : Model not compatible with this option.

- So changed parameter file on the fly when running launch ..
  - Is that okay?
- Parameters that I set to 0, next slide..

# Parameters (couplings?)

- Block anoinputs
- 1 1.000000e+00 # FS0
- 2 1.000000e+00 # FS1
- 3 1.000000e+00 # FM0
- 4 1.000000e+00 # FM1
- 5 1.000000e+00 # FM2
- 6 1.000000e+00 # FM3
- 7 1.000000e+00 # FM4
- 8 1.000000e+00 # FM5
- 9 1.000000e+00 # FM6
- 10 1.000000e+00 # FM7
- 11 1.000000e+00 # FT0
- 12 1.000000e+00 # FT1
- 13 1.000000e+00 # FT2
- 14 1.000000e+00 # FT3
- 15 1.000000e+00 # FT4
- 16 1.000000e+00 # FT5
- 17 1.000000e+00 # FT6
- 18 1.000000e+00 # FT7
- 19 1.000000e+00 # FT8
- 20 1.000000e+00 # FT9

Not sure what I should be changing ...  
Maybe I missed an email?

# Pileup

- Machine energies are now 14 TeV and 33 TeV
  - But pileup files are still 13 TeV and 33 TeV
- This first pass, I generated 13 TeV, so I'll use the 13 TeV pileup
  - Follow instructions on wiki:  
[http://www.snowmass2013.org/tiki-index.php?page=Energy\\_Frontier\\_FastSimulation#Fast\\_Simulation\\_and\\_Pile\\_up\\_strategy\\_-\\_the\\_Snowmass\\_detector](http://www.snowmass2013.org/tiki-index.php?page=Energy_Frontier_FastSimulation#Fast_Simulation_and_Pile_up_strategy_-_the_Snowmass_detector)
- How to run? From the webpage:
- `./DelphesHepMC examples/  
delphes_card_Snowmass_NoPileUp.tcl ttbar_NOPU.root  
GenEvent_ASCII.hepmc`
- `ttbar_NOPU.root -> tag_1_pythia_blah.root`
- `*.hepmc?`

# General Questions

- Is this the right dim8 tar file?
  - List found here:  
<http://feynrules.irmp.ucl.ac.be/wiki/AnomalousGaugeCoupling>
  - Currently using: SM\_LM0123\_UFO.tgz
- What cuts to make when running at MadGraph level?
  - Talked about it last week, but want the numbers written down
- How to run the pileup?
- Statistics? 50k ?
  
- Once these things are worked out, Jenny and I should make decent progress