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pMSSM for Snowmass 2021

Initial LOI:

https://www.snowmass21.org/docs/files/summaries/EF/SNOWMASS21-EF8_EF0_JimHirschauer-216.pdf

Meetings

- 11/04/2020: <https://indico.fnal.gov/event/46307/>
- 11/11/2020: <https://indico.fnal.gov/event/46404/>

Malte's code

On git: https://github.com/mmrowietz/pMSSM_McMC

Formatted to run on cmslpc:

```
source /cvmfs/sft.cern.ch/lcg/views/LCG_96/x86_64-centos7-gcc8-opt/setup.sh
xrdcp root://cmseos.fnal.gov//store/user/jennetd/snowmass/pMSSM_McMC.tar.gz .
tar -zxvf pMSSM_McMC.tar.gz
cd pMSSM_McMC
```

Compile the external packages locally:

```
cd packages/

# compile FeynHiggs
rm -rf FeynHiggs-2.16.1 && tar -zxvf FeynHiggs-2.16.1.tar.gz
cd FeynHiggs-2.16.1
./configure && make && make install
cd ../

# compile SPheno
rm -rf SPheno-4.0.4 && tar -zxvf SPheno-4.0.4.tar.gz
cd SPheno-4.0.4
sed -i "/^F90/c\F90=gfortran" Makefile
make --version && make
cd ../

# compile superiso
rm -rf superiso_v4.0 && tar -zxvf superiso_v4.0.tgz
cd superiso_v4.0
cp ../slha_chi2_reduced.c .
make
make slha
make slha_chi2
make slha_chi2_reduced
cd ../..
```

Then to run, do:

```
mkdir $outdir
python mcmc.py -m new -o $outdir -n $npoints
```

Test output files are available at /eos/uscms/store/user/jennetd/snowmass/output

-- JennetDickinson - 2020-11-17

This topic: Sandbox > PMSSMSnowmass2021

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