

## To use the Sherpa event generator (information and manuals: <http://www.sherpa-mc.de/>)

- version 1.2.2
- version 1.3

### Standard installation

- CMSSW\_4\_2\_4 comes with Sherpa 1.2.2 installed by default. To use it, see configuration file stored in `Configuration/TotemStandardSequences/test/RPT1T2/SherpaInelastic.py` and `Configuration/TotemCommon/python/SherpaInelastic_cfi.py`
- sample session:

```
cd Configuration/TotemStandardSequences/test/RPT1T2/  
cmsRun SherpaInelastic.py
```

### Custom installation

- Update your CMSSW from SVN to get cfi-file for Sherpa.
- Download updated version of SherpaInterface into your CMSSW source tree (this is not included in the cmssw SVN repository because the code does not compile without an updated local installation of Sherpa). This is done by running `svn co svn+ssh://svn.cern.ch/repos/totem/trunk/offline/user/jan/GeneratorInterface` in your CMSSW src-directory.
- Download compiled recent version of Sherpa (compiling takes A LOT of adjusting environment variables etc., but this is compiled on lxplus and should work at least on the lxplus nodes) where you want to install it: `wget http://www.helsinki.fi/~jwelti/Sherpa-1.3.0.zip`
- Extract zip file where you want to put your Sherpa installation: **unzip Sherpa-1.3.0.zip**
- Edit **SHERPA\_BASE** path in `sherpa.xml` to point to your Sherpa installation
- Copy SCRAM setup file `sherpa.xml` to `config/toolbox/slc4_ia32_gcc345/tools/available/sherpa.xml`
- Run **scram setup sherpa**
- Compile SherpaInterface by running `scram build` in `src/GeneratorInterface`
- Test Sherpa by running `cmsRun SherpaInelastic.py` in your `src/GeneratorInterface/SherpaInterface/test` directory!

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