Version: pythia 8.2.19

Steps:

 Download pythia from the following page http://home.thep.lu.se/~torbjorn/Pythia.html

Installation

Click here to download pythia8219.tgz file

To get going with the program, do the following n a Linux or Mac OS X system):

- Download the file pythia8219.tgz to a suitable location.
- Unzip and expand it with tar xvfz pythia8219.tgz.
- Move to the thus created pythia8219 directory.
- Read the README file in it for installation instructions, and apply them.

 (If you are not going to link any outernal libraries, or have any other appoint.)
- 2. Move pythia8219.tgz to your home directory (farm or local, I will use my farm directory as an example)

3. In your home directory unzip the pythia8219.tgz file

```
[zhengl@iopp040 ~]$ tar -zxvf pythia8219.tgz
  then you will find
[zhengl@iopp040 ~]$ ls
                 Eic-smear-1.0.3.tar.bz2 py source
abc.C
                                                               Unzipped file
AMPT
                 exercise
                                         pvthia8201
bashrc
                 f1.png
                                          pythia8201.tgz
bashrc copy
                 glauber
blastwave
                 gluon sivers
```

4. Change to your pythia8219 directory

```
[zhengl@iopp040 ~]$ cd pythia8219
```

and then configure your setup procedure with the path to keep your installed pythia files

```
[zhengl@iopp040 pythia8219]$ ./configure --prefix=$HOME/install/pythia8
```

5. Create your install directory and then compile the source code

```
[zhengl@iopp040 pythia8219]$ mkdir -p $HOME/install/pythia8
[zhengl@iopp040 pythia8219]$ make
```

6. After a long compilation, now you can install it

```
[zhengl@iopp040 pythia8219]$ make install
```

then you will find following directories in your selected prefix path

```
[zhengl@iopp040 pythia8219]$ ls $HOME/install/pythia8 bin include lib share
```

7. Setup your PYTHIA8DATA environment variable In your .bashrc file, add the following environment variable

export PYTHIA8DATA = \$HOME/install/pythia8/share/Pythia8/xmldoc

8. Test your pythia installation cd to your installed pythia example directory

```
[zhengl@iopp040 pythia8219]$ cd $HOME/install/pythia8/share/Pythia8/examples/
then compile your example01
[zhengl@iopp040 examples]$ make main01
```

after that, run this program
[zhengl@iopp040 examples]\$./main01

If you see following by the end of output, then congrats, installation done!