

CMS-GEN

Release 1

cms-generator

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1	Hightlight	3
1.1	Monte Carlo Generator Tutorial	3
1.2	FAQ	3

CMS Generator group information

Current version is 1.

This page intends to:

- Provides Generator related information.
- Supports CMS user in term of GEN related technicality.
- Provides a platform for FAQ.

Highlight

- Monte Carlo generator tutorial

1.1 Monte Carlo Generator Tutorial

List of useful tutorial relating to Generator's activities.

- [The McM and pMp Tutorial \(2019\)](#) - It will explain the Monte Carlo (MC) production in the CMS collaboration by emphasizing on the two main tools: Monte Carlo request Management (McM) and Production Monitoring Platform (pMp). Please register to confirm your participation.

1.2 FAQ

1.2.1. What is the procedure used for generating Madgraph?

1.2.2. Where can i find the Info for MC production for Ultra Legacy Campaigns 2016, 2017, 2018?

1.2.1 What is the procedure used for generating Madgraph?

you can find instructions on how to use the MadGraph5_aMCatNLO generator on this twiki page:

```
https://twiki.cern.ch/twiki/bin/view/CMS/QuickGuideMadGraph5aMCatNLO
```

Note since 2018/11/28, the master branch of genproductions is merged with the *MG5_aMC@NLO v26X branch*. We instruct users to clone the whole genproductions from git and work there. On a lxplus machine (not in a release area), you can do the following:

```
git clone https://github.com/cms-sw/genproductions.git
#(if you need to use mg 2.4.2 then do the following git clone
https://github.com/cms-sw/genproductions.git -b mg242legacy)
cd genproductions/bin/MadGraph5_aMCatNLO/
./gridpack_generation.sh <name of process card without _proc_card.dat> <folder
containing cards relative to current location>
```

Example:

```
./gridpack_generation.sh wplustest_4f_LO cards/examples/wplustest_4f_LO
```

1.2.2 Where can i find the Info for MC production for Ultra Legacy Campaigns 2016, 2017, 2018

Ultra legacy (UL) campaigns are displayed at this [link](#) . The UL campaigns are the standard

campaigns with the corresponding setup schemes to emulate the RunII datataking period.
For more information, please visit [Monte Carlo Production tool](#) .

