

Monte Carlo event generation: Tutorial

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The tutorial is divided in two parts (now and tomorrow morning). Today's part aims at giving you an insight into the workings of a typical Monte Carlo program. To this end you will set up the SHERPA event generator to calculate one event. Then this event can be examined and the individual stages of event generation can be identified.

Tomorrow's tutorial then lets you investigate the impact of each event stage on a number of typical observables. You can then identify which of these observables is affected by physics at which scales.

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The software and setups used in both tutorial sessions is pre-installed on the desktop computers. To access it open a terminal (“Applications→Accessoires→Terminal”) and navigate to the directory MCTutorial

```
cd MCTutorial
```

Therein you will find the following subdirectories [install](#), [Day1](#) and [Day2](#), a pdf file [MC-Tutorial-Instructions.pdf](#) and a script [paths.sh](#). At the beginning of each day (and for every shell you use) first execute

```
source paths.sh
```

to make the system aware of the additional software for the tutorial. And then open the tutorial instructions

```
evince MC-Tutorial-Instructions.pdf &
```

Tutorial, Day 1

