

# The LaTeX report

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# 1 Setup

## 1.1 Command history

```
ma5>define invisible = 12 14 16 -12 -14 -16
ma5>set main.fastsim.package = fastjet
ma5>set main.fastsim.algorithm = antikt
ma5>set main.fastsim.radius = 0.4
ma5>set main.fastsim.ptmin = 5.0
ma5>set main.fastsim.bjet_id.matching_dr = 0.4
ma5>set main.fastsim.bjet_id.eta_efficiency = 1.0
ma5>set main.fastsim.bjet_id.misid_cjet = 0.0
ma5>set main.fastsim.bjet_id.misid_ljet = 0.0
ma5>set main.fastsim.tau_id.eta_efficiency = 1.0
ma5>set main.fastsim.tau_id.misid_ljet = 0.0
ma5>import /home/s1412595/Desktop/SummerProject2019/MG5_aMC_v2_6_6/BP2_080719/Events/-
run_01/tag_1_pythia8_events.hepmc.gz as reco_events
ma5>set main.outputfile=tag_1_pythia8_BasicReco.lhe.gz
ma5>submit /home/s1412595/Desktop/SummerProject2019/MG5_aMC_v2_6_6/BP2_080719/MA5_HADRON_ANALYSIS_
```

## 1.2 Configuration

- MadAnalysis version 1.8.5 (2019/04/04).
- Histograms are not scaled.

## 2 Datasets

### 2.1 reco\_events

- Sample consisting of: [signal](#) events.
- Generated events: [1000](#) events.
- Normalization to the luminosity: [0+/- 0](#) events.
- Ratio (event weight): [0.0](#) .

| Path to the event file                           | Nr. of events | Cross section (pb) | Negative wgts (%) |
|--------------------------------------------------|---------------|--------------------|-------------------|
| Events/run_01/-<br>tag_1_pythia8_events.hepmc.gz | 1000          | 4.93e-49           | 0.0               |