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To contact us:

<http://madanalysis.irmp.ucl.ac.be>
ma5team@iphc.cnrs.fr

Contents

| | | |
|----------|------------------------|----------|
| 1 | Setup | 2 |
| 1.1 | Command history | 2 |
| 1.2 | Configuration | 2 |
| 2 | Datasets | 3 |
| 2.1 | defaultset | 3 |
| 3 | Histos and cuts | 4 |
| 3.1 | Histogram 1 | 4 |

1 Setup

1.1 Command history

```
ma5>import ../../../../madgraph/e+e-2e+e-y/Events/run_02/unweighted_events.lhe
ma5>plot dR(a e-) 100 0 5
ma5>submit e+e-2e+e-yDR2
```

1.2 Configuration

- MadAnalysis version 1.1.11 (2014/09/15).
- Histograms given for an integrated luminosity of 10fb^{-1} .

2 Datasets

2.1 defaultset

- Samples stored in the directory: [/media/sf_darkphotons/madanalysis/madanalysis5/-bin](#) .
- Sample consisting of: [signal](#) events.
- Generated events: [1000000](#) events.
- Normalization to the luminosity: [444717500000+/- 1259621000](#) events.
- **Ratio (event weight): 4447175 - warning: please generate more events (weight larger than 1)!**

| Path to the event file | Nr. of events | Cross section (pb) | Negative wgt (%) |
|---|---------------|--------------------|------------------|
| /media/sf_darkphotons/-madgraph/e+e-2e+e-y/Events/run_02/-unweighted_events.lhe | 1000000 | 444717500 @ 0.028% | 0.0 |

3 Histos and cuts

3.1 Histogram 1

* Plot: dR (a e^-)

Table 1. Statistics table

| Dataset | Integral | Entries events | / | Mean | RMS | %Underflow | %Overflow |
|------------|--------------|-------------------|---|---------|--------|------------|-----------|
| defaultset | 4.447175e+12 | 1.0 | | 2.70597 | 0.9249 | 0.0 | 0.1868 |

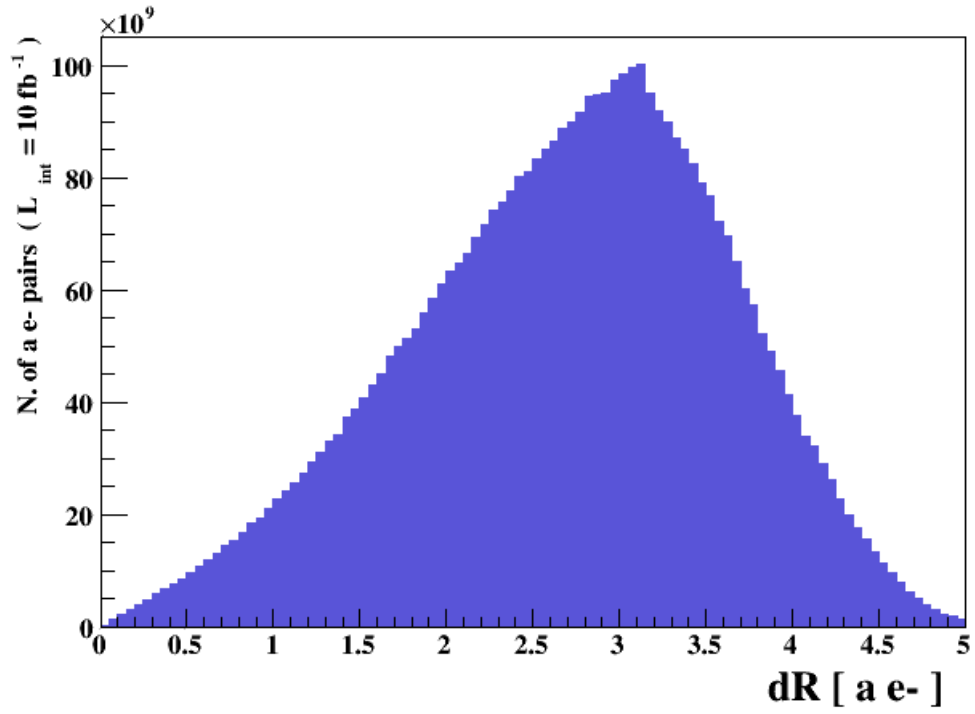


Figure 1.