



## The LaTeX report

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## 1 Setup

### 1.1 Command history

```
ma5>import ../../../../madgraph/e+e-2e+e-y/Events/run_02/unweighted_events.lhe
ma5>plot a.pt 100 0 0.05
ma5>a
ma5>plot a
ma5>plot dr(a, e) 100 0 0.005
ma5>plot DR(a, e) 100 0 0.005
ma5>plot DR(a) 100 0 0.005
ma5>plot dR(a, e-) 100 0 0.005
ma5>plot dR(a e-) 100 0 0.005
ma5>submit e+e-2e+e-yDR
```

### 1.2 Configuration

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

## 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: [4447175000000+/- 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 wgts (%)
/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	100.0

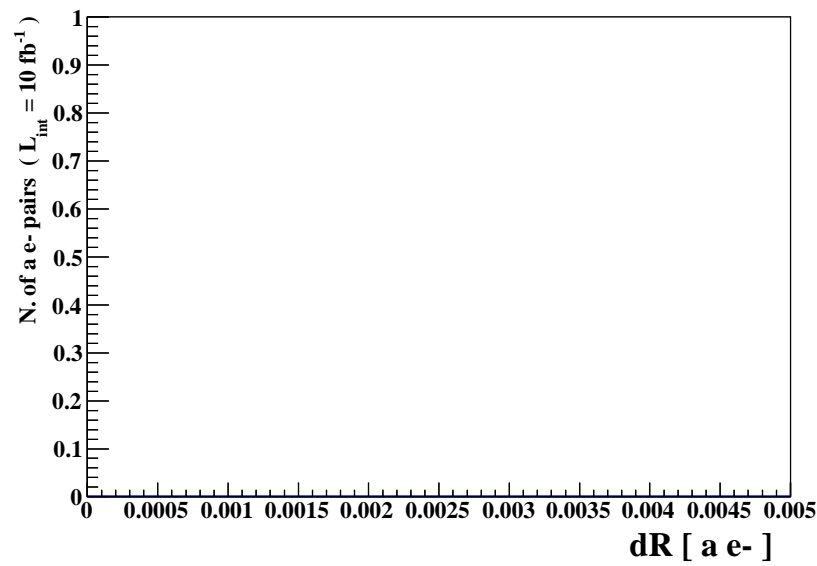


Figure 1.