



The LaTeX report

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1 Setup

1.1 Command history

```
ma5>import ../../../../DarkPhotonSignalTest/Events/run_01/unweighted_events.lhe
ma5>plot dR(a e+) 100 0 5
ma5>submit DPtest2
ma5>plot dR(a dP) 100 0 5
ma5>define
ma5>define dP = 9000001
ma5>plot dR(a dP) 100 0 5
ma5>submit DPTtest3
```

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/madgraph/madanalysis/-madanalysis5/bin](#) .
- Sample consisting of: [signal](#) events.
- Generated events: [100000](#) events.
- Normalization to the luminosity: [316687+/- 107](#) events.
- **Ratio (event weight): 3.2 - 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/-DarkPhotonSignalTest/-Events/run_01/-unweighted_events.lhe	100000	31.7 @ 0.034%	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	0.0 +/- 0.0	0.0		0.0	0.0	0.0	0.0

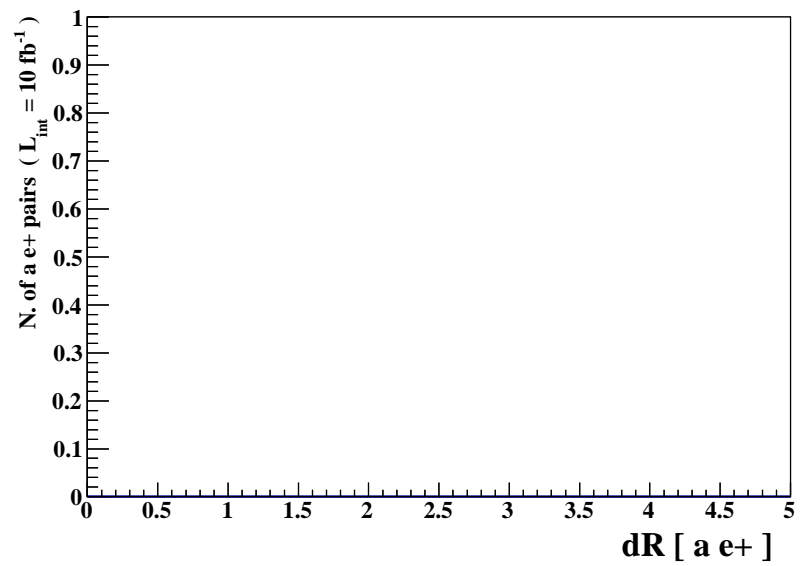


Figure 1.

3.2 Histogram 2

* Plot: dR (a dp)

Table 2. Statistics table

Dataset	Integral	Entries events	/	Mean	RMS	%Underflow	%Overflow
defaultset	316687	1.0		2.51789	0.8642	0.0	0.0

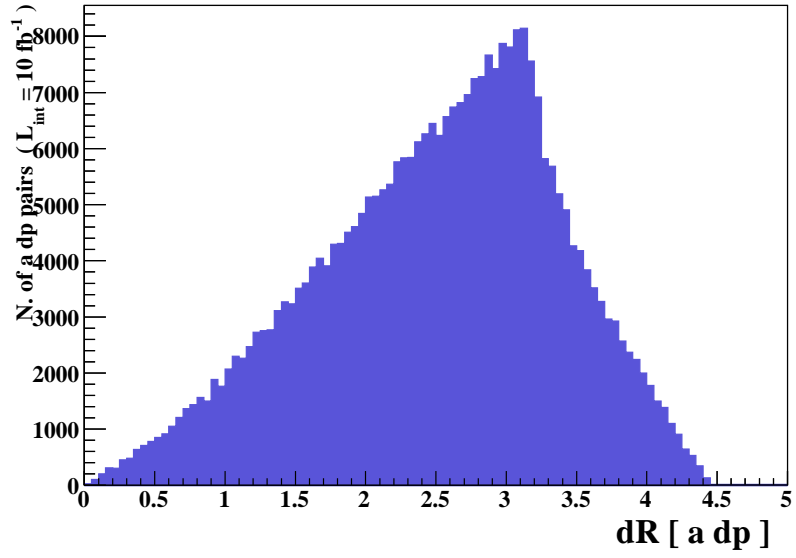


Figure 2.