The LaTeX report

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> **E. Conte, B. Fuks and G. Serret**,
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> Comput. Phys. Commun. **184** (2013) 222-256,
> arXiv:1206.1599 [hep-ph].

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Contents

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 DPTest3
```

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	%Underfl	%Overflow
defaultset	0.0 +/- 0.0	0.0	0.0	0.0	0.0	0.0

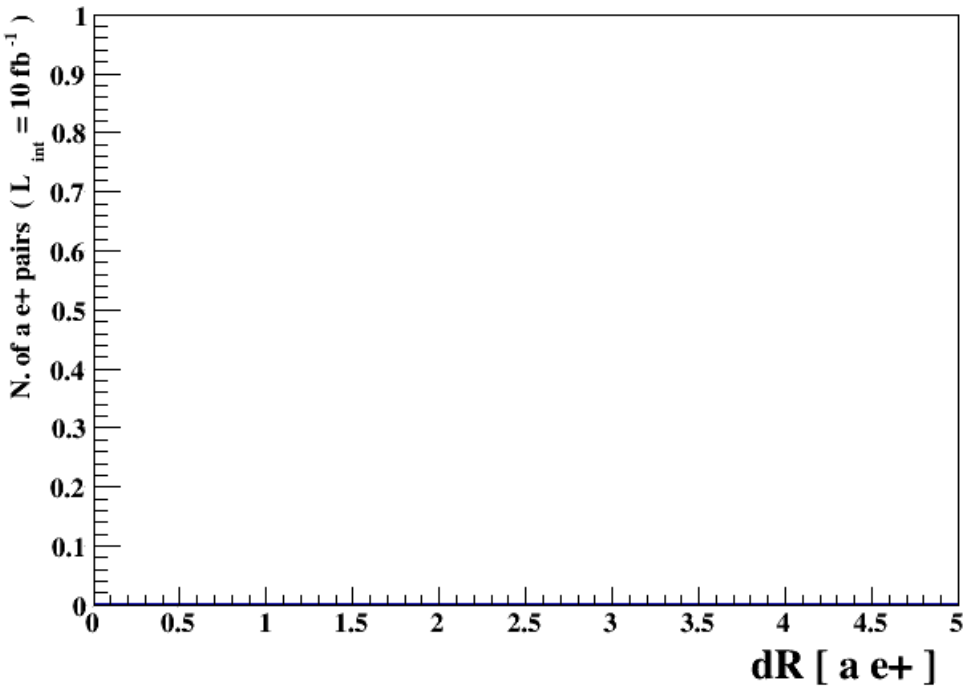

Figure 1.

3.2 Histogram 2

*** Plot: dR (a dp)**

Table 2. Statistics table

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

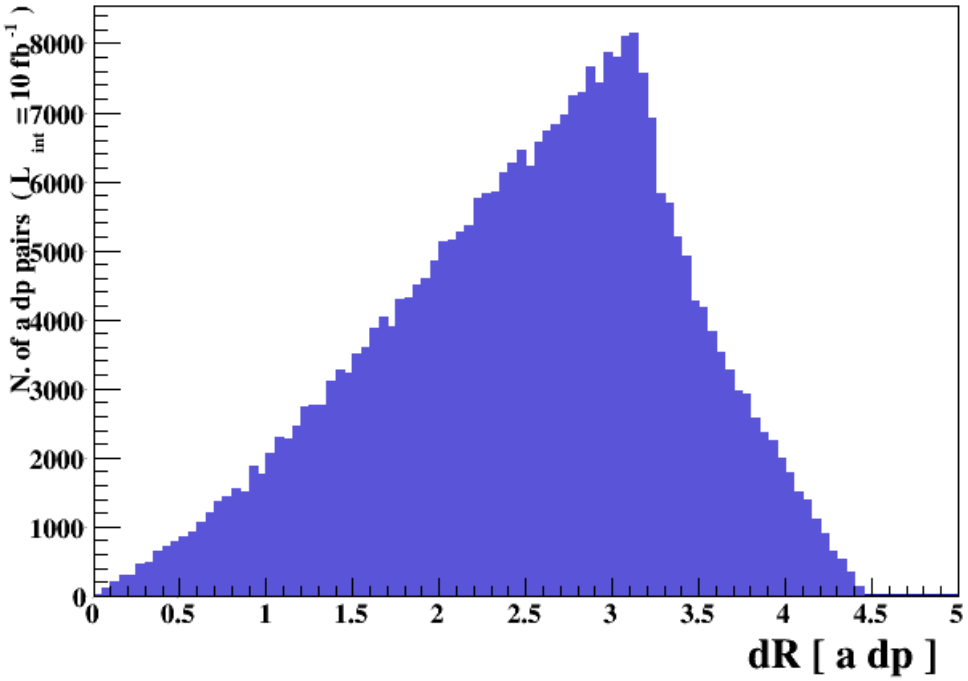

Figure 2.