

# The LaTeX report

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This report has been generated automatically by Madanalysis 5.

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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 DRtest
ma5>plot dR(dP) 100 0 5
ma5>plot dR(dp) 100 0 5
ma5>import
ma5>display_multiparticles
ma5>define
ma5>plot dR(a) 100 0 5
ma5>plot DRtest2
```

#### 1.2 Configuration

- MadAnalysis version 1.1.11 (2014/09/15).
- Histograms given for an integrated luminosity of 10fb<sup>-1</sup>.

## 2 Datasets

#### 2.1 defaultset

- $\bullet$  Samples stored in the directory: /media/sf\_darkphotons/madgraph/madanalysis/madanalysis5/bin .
- Sample consisting of: signal events.
- Generated events: 100000 events.
- $\bullet$  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	%Underflo	%Overflow
defaultset	0.0 +/- 0.0	0.0	0.0	0.0	0.0	0.0

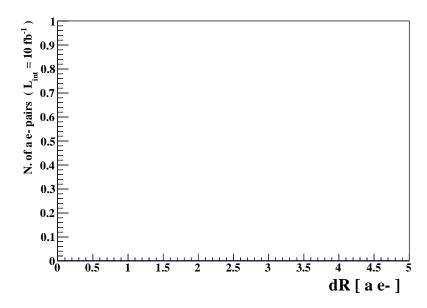


Figure 1.

# 3.2 Histogram 2

\* Plot: PT ( a )

Table 2. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	316687	1.0	0.0146948	0.01014	0.0	0.0

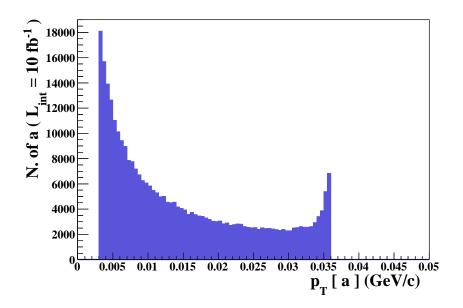


Figure 2.