The LaTeX report

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Please cite:

> **E. Conte, B. Fuks and G. Serret**,
> *MadAnalysis 5, A User-Friendly Framework for Collider Phenomenology*,
> 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 ../../../madgraph/e+e-2yy/Events/run_11/unweighted_events.lhe.gz
ma5>import ../../../madgraph/e+e-2yy/Events/run_11/unweighted_events.lhe
ma5>plot MET
ma5>plot PT(a) 20 0 100
ma5>generate pdflatex test.pdf
ma5>generate_pdflatex test.pdf
ma5>submit test
ma5>plot PT(a) 50 0 1
ma5>submit test2
ma5>plot PT(a) 50 0 0.1
ma5>submit test2
ma5>plot PT(a) 100 0 0.05
ma5>submit test2
```

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: 100000 events.
- Normalization to the luminosity: 1449369000000+/- 91748050 events.
- Ratio (event weight): 14493690 - 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-2yy/-Events/run_11/-unweighted_events.lhe	100000	144936900 @ 0.0063%	0.0

3 Histos and cuts

3.1 Histogram 1

*** Plot: MET**

Table 1. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	1.449369e+12	1.0	0.0	0.0	0.0	0.0

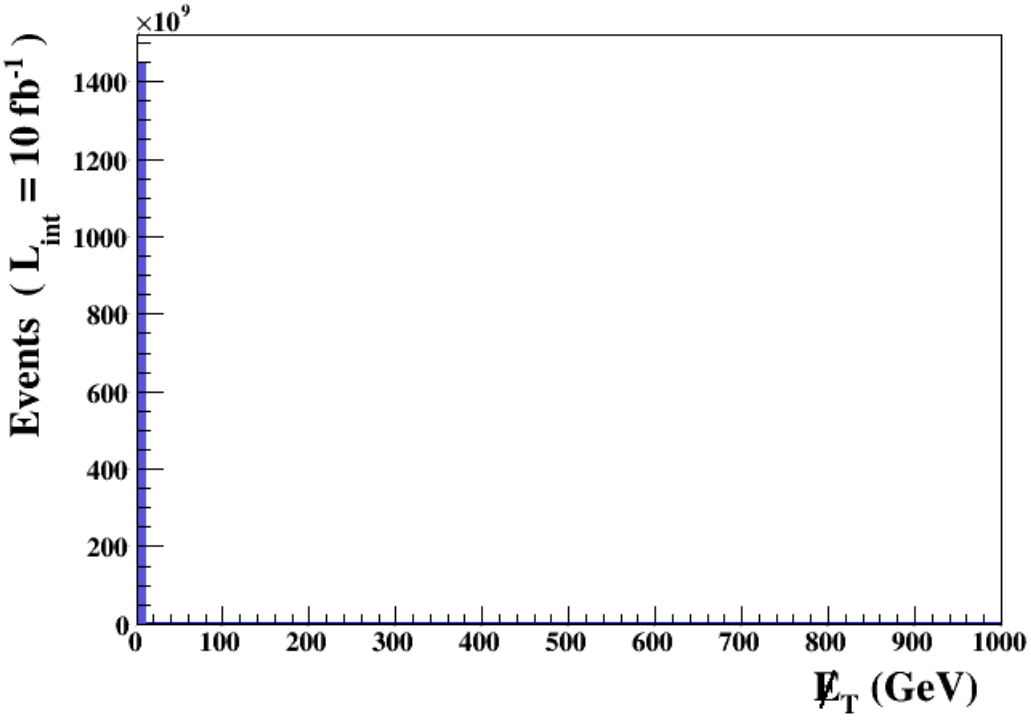

Figure 1.

3.2 Histogram 2

*** Plot: PT (a)**

Table 2. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	2.898738e+12	2.0	0.0146585	0.01015	0.0	0.0

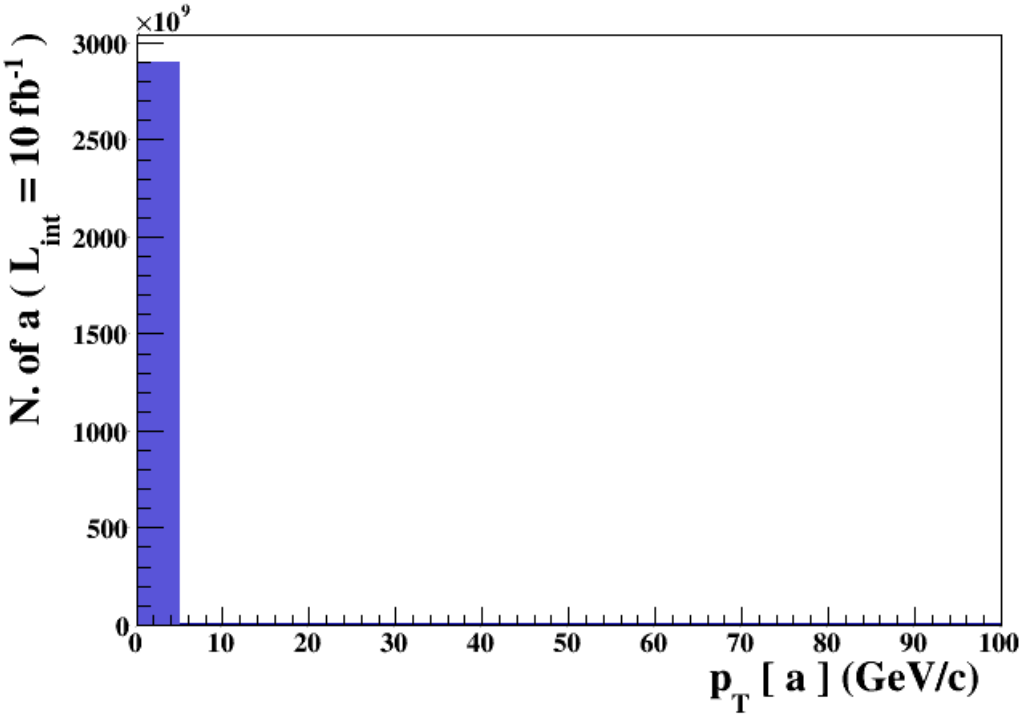

Figure 2.

3.3 Histogram 3

*** Plot: PT (a)**

Table 3. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	2.898738e+12	2.0	0.0146585	0.01015	0.0	0.0

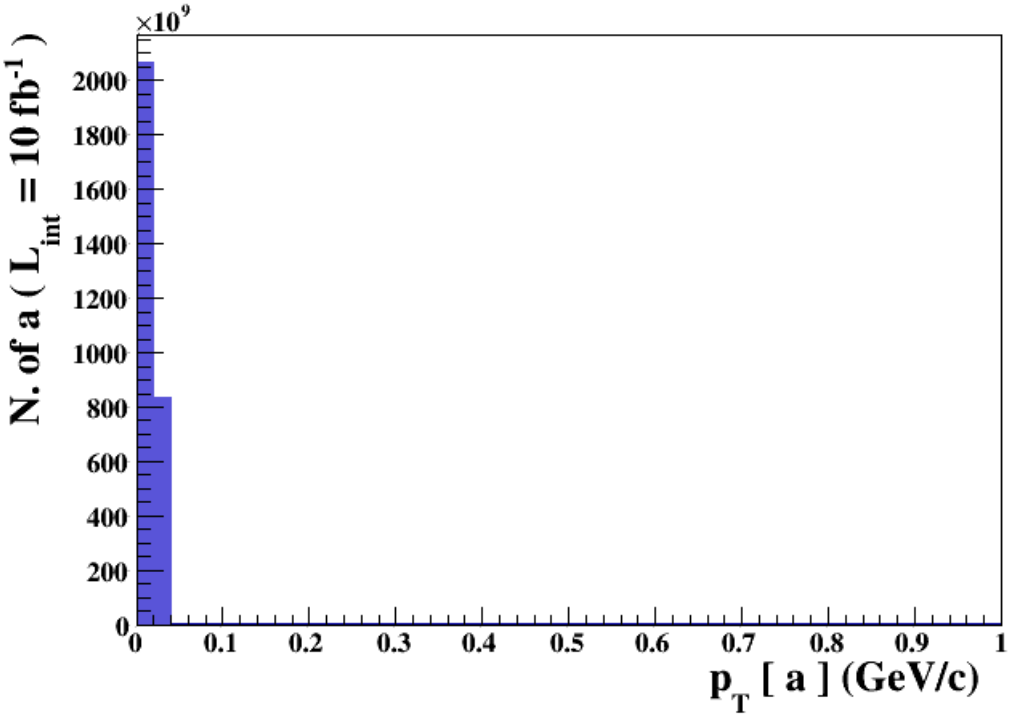

Figure 3.

3.4 Histogram 4

*** Plot: PT (a)**

Table 4. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	2.898738e+12	2.0	0.0146585	0.01015	0.0	0.0

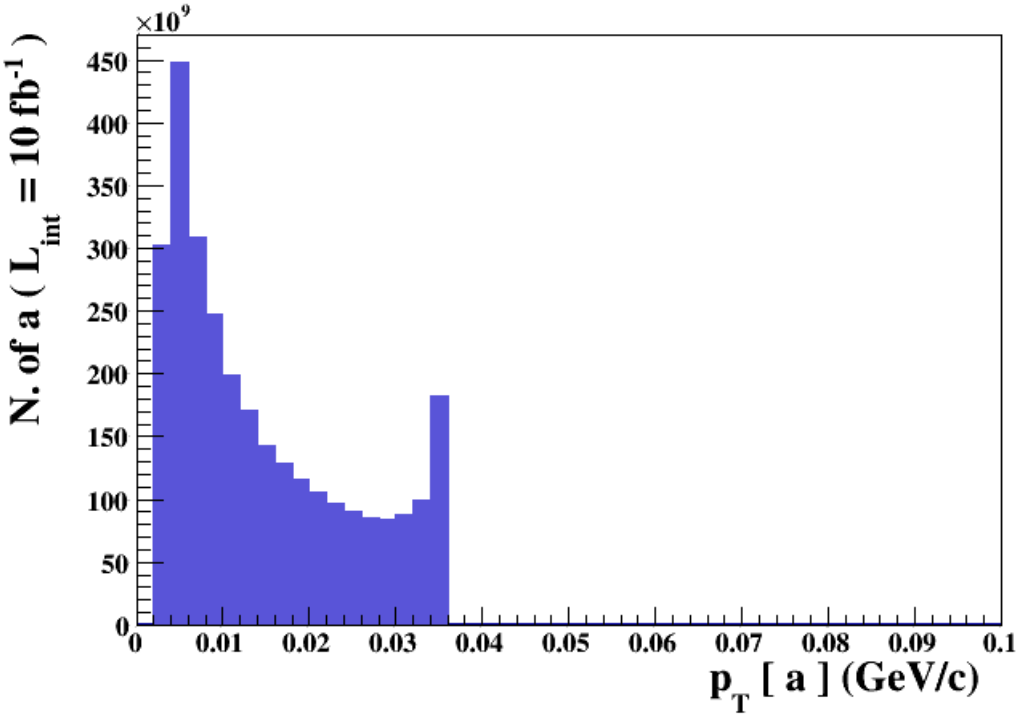

Figure 4.

3.5 Histogram 5

*** Plot: PT (a)**

Table 5. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	2.898738e+12	2.0	0.0146585	0.01015	0.0	0.0

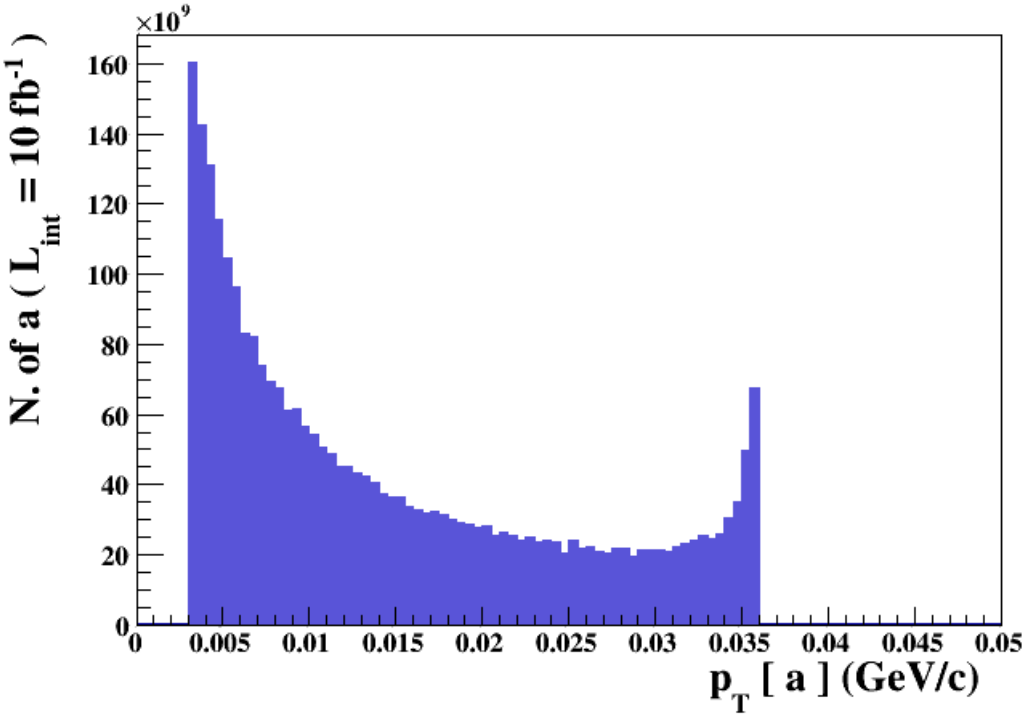

Figure 5.