The LaTeX report

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> **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].

To contact us:

> **http://madanalysis.irmp.ucl.ac.be**
> **ma5team@iphc.cnrs.fr**

Contents

1 Setup

1.1 Command history

```
 ma5>import /home/jose/MC_Studies/MG5_aMC_v2_5_1/TTbar_dimuonchannel/Events/-
run_01/unweighted_events.lhe.gz
ma5>define MU = mu+ mu-
ma5>plot ETA(MU)
ma5>plot PT(MU)
ma5>submit TTbarDimuonChannel_MuonsInfo
```

1.2 Configuration

- MadAnalysis version 1.4 (2016/07/20).
- Histograms given for an integrated luminosity of 10fb^{-1}.

2 Datasets

2.1 defaultset

- Samples stored in the directory: /home/jose/MC_Studies/madanalysis5 .
- Sample consisting of: signal events.
- Generated events: 1000 events.
- Normalization to the luminosity: 56904+/- 443 events.
- Ratio (event weight): 56 - warning: please generate more events (weight larger than 1)!

Path to the event file	Nr. of events	Cross section (pb)	Negative wgts (%)
/home/jose/MC_Studies/-MG5_aMC_v2_5_1/-TTbar_dimuonchannel/-Events/run_01/-unweighted_events.lhe.gz	1000	5.69 @ 0.78%	0.0

3 Histos and cuts

3.1 Histogram 1

*** Plot: ETA (mu)**

Table 1. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	113809	2.0	-0.00794128	1.521	0.0	0.0

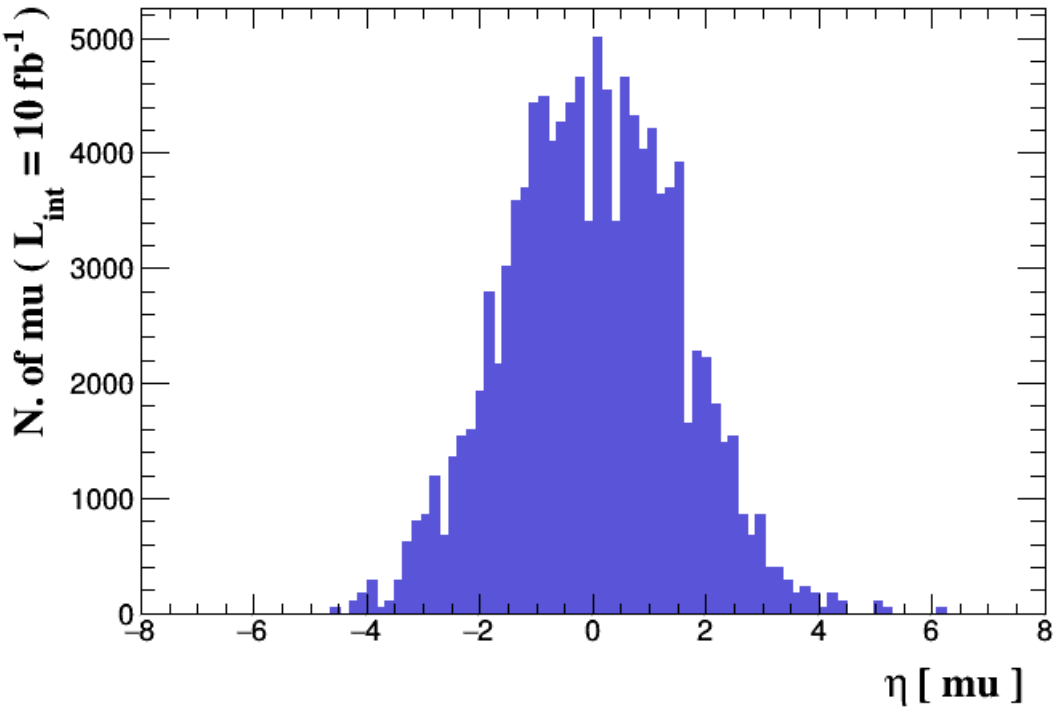

Figure 1.

3.2 Histogram 2

*** Plot: PT (mu)**

Table 2. Statistics table

Dataset	Integral	Entries / events	Mean	RMS	%Underfl	%Overflow
defaultset	113809	2.0	52.1983	40.49	0.0	0.0

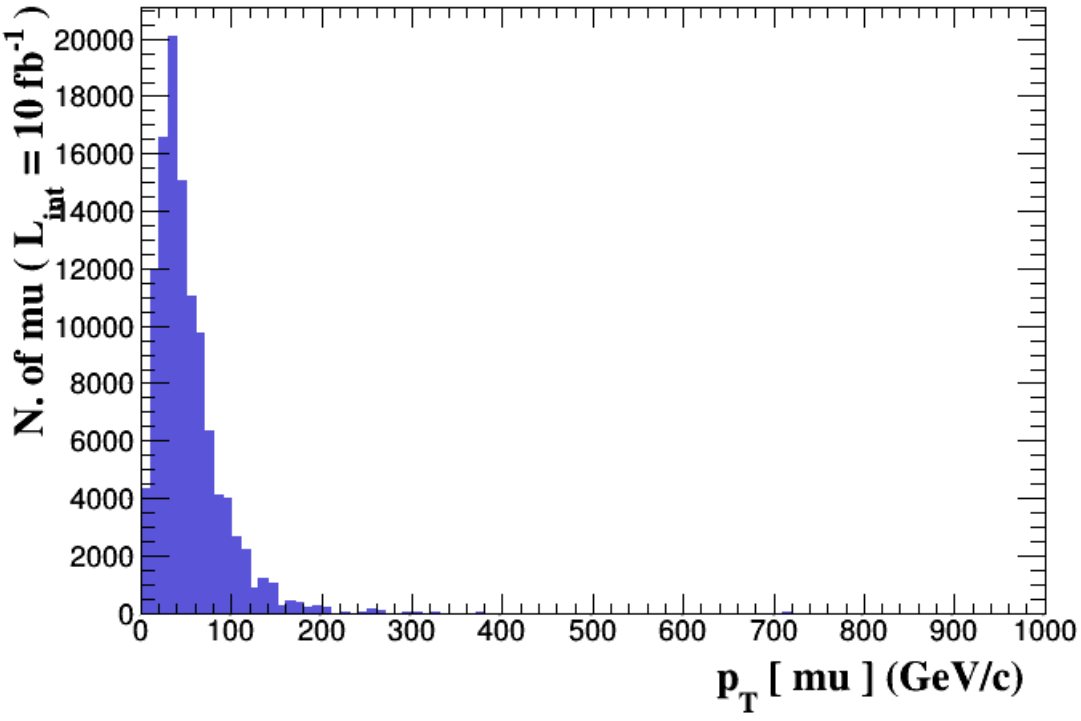

Figure 2.