The LaTeX report

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Contents

1   Setup

1.1   Command history

```
ma5>import /afs/cern.ch/work/b/bkailasa/MCGens/madgraph/MG5_aMC_v2_6_7/Tutorial_new/-
bin/internal/ufomodel
ma5>import /afs/cern.ch/work/b/bkailasa/MCGens/madgraph/MG5_aMC_v2_6_7/Tutorial_new/-
Events/run_01/unweighted_events.lhe.gz as unweighted_events
ma5>define vl = 12 14 16
ma5>define vl  = -16 -14 -12
ma5>define invisible = ve ve  vm vm  vt vt  vl vl
ma5>set main.graphic_render = root
ma5>plot THT 40 0 500 [logY]
ma5>plot MET 40 0 500 [logY]
ma5>plot SQRTS 40 0 500 [logY]
ma5>plot PT(uv[1]) 40 0 500 [logY]
ma5>plot ETA(uv[1]) 40 -10 10 [logY]
ma5>plot PT(uv [1]) 40 0 500 [logY]
ma5>plot ETA(uv [1]) 40 -10 10 [logY]
ma5>plot M(uv[1] uv [1]) 40 0 500 [logY ]
ma5>plot DELTAR(uv[1],uv [1]) 40 0 10 [logY ]
ma5>submit /afs/cern.ch/work/b/bkailasa/MCGens/madgraph/MG5_aMC_v2_6_7/Tutorial_new/-
MA5_PARTON_ANALYSIS_analysis1
```

1.2   Configuration

- MadAnalysis version 1.8.31 (2019/11/06).

- Histograms given for an integrated luminosity of 10fb^{-1}.

2   Datasets

2.1   unweighted_events

- Sample consisting of: signal events.

- Generated events: 10000 events.

- Normalization to the luminosity: 76810+/- 129 events.

- Ratio (event weight): 7.7 - warning: please generate more events (weight larger than 1)!

Path to the event file	Nr. of events	Cross section (pb)	Negative wgts (%)
Tutorial_new/Events/run_01/-unweighted_events.lhe.gz	10000	7.68 @ 0.17%	0.0

3   Histos and cuts

3.1   Histogram 1

* Plot: THT

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	0.0	0.0	0.0	0.0
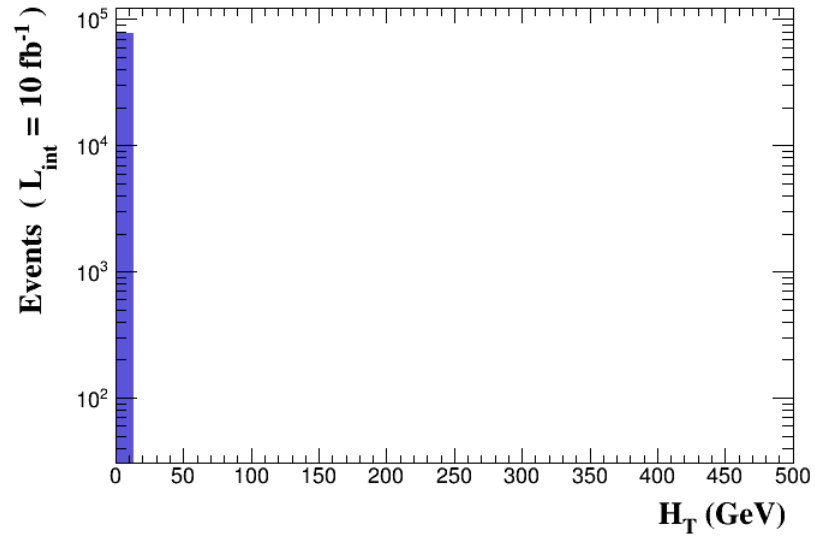
Figure 1.

3.2   Histogram 2

* Plot: MET

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	0.0	0.0	0.0	0.0
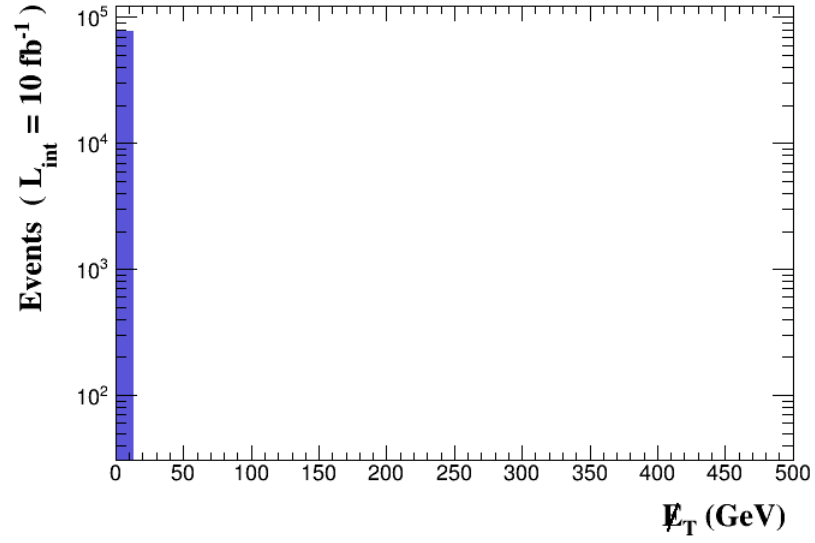
Figure 2.

3.3 Histogram 3

* Plot: SQRTS

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	1113.55	286.1	0.0	100.0
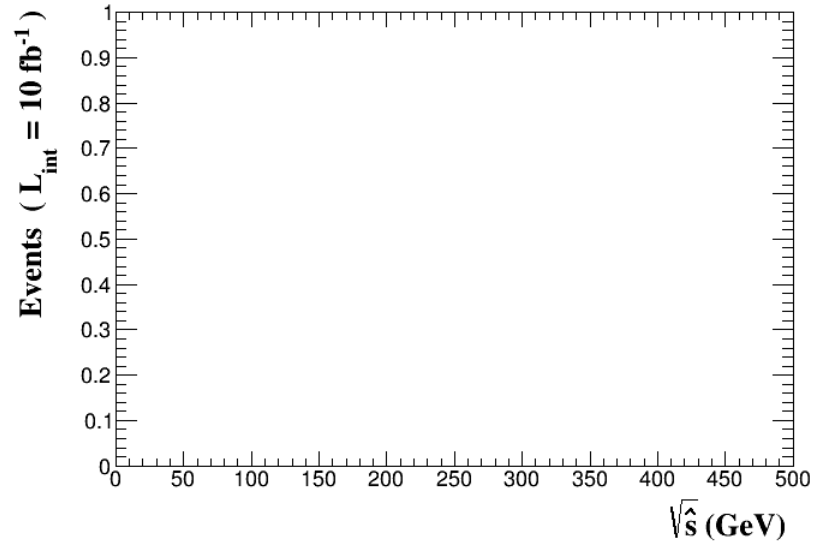
Figure 3.

3.4 Histogram 4

* Plot: PT (uv[1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	248.786	155.2	0.0	6.7
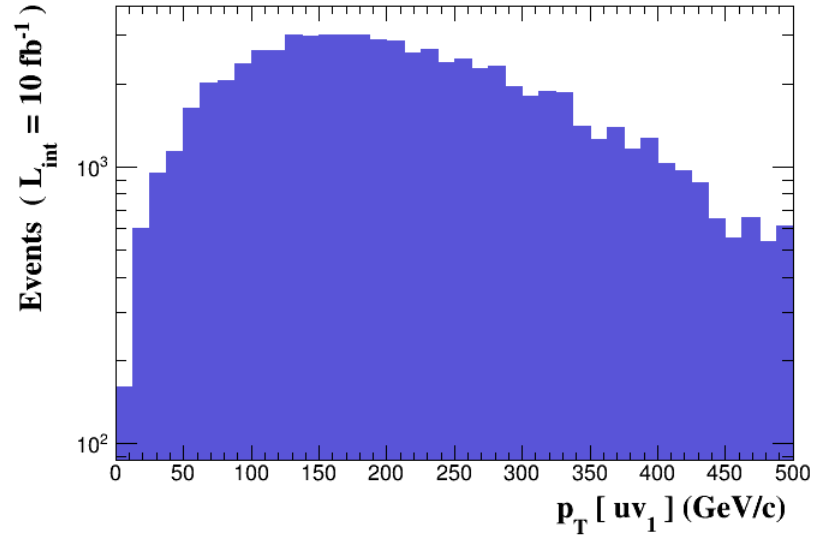
Figure 4.

3.5 Histogram 5

* Plot: ETA (uv[1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	-0.0172837	1.667	0.0	0.0
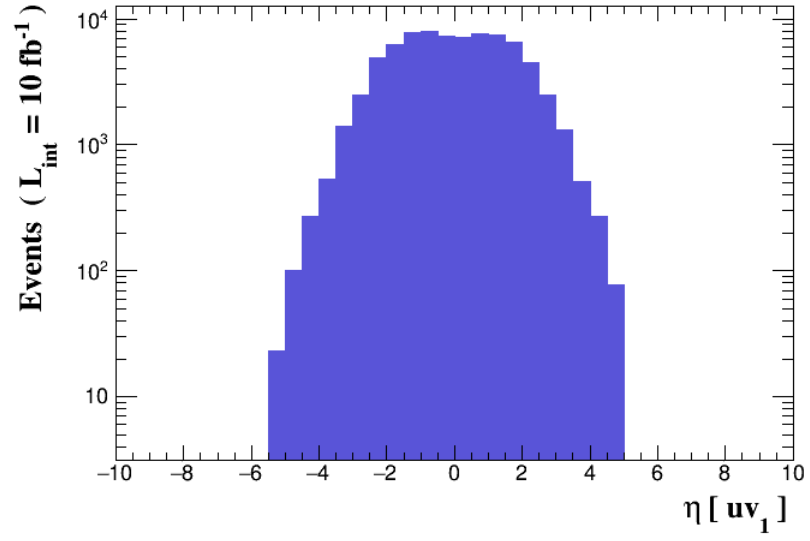
Figure 5.

3.6 Histogram 6

* Plot: PT (uv [1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	248.786	155.2	0.0	6.7
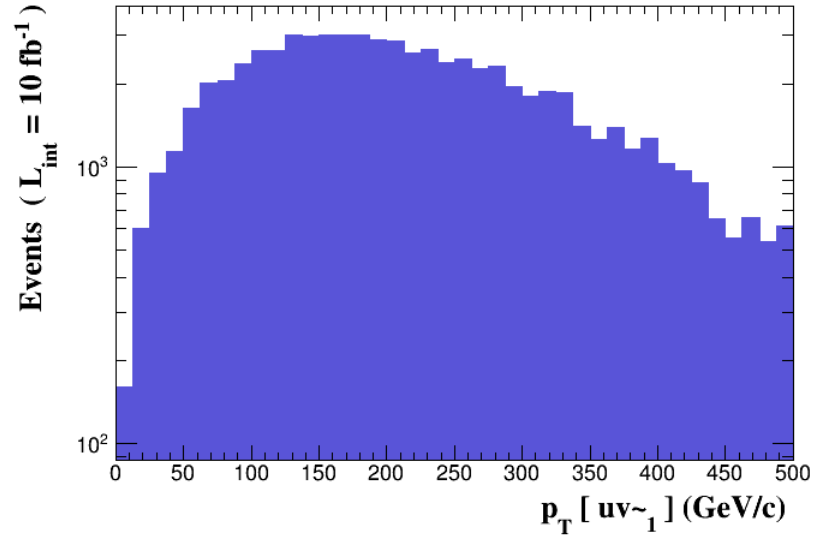
Figure 6.

3.7   Histogram 7

* Plot: ETA (uv [1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	-0.000711414	1.682	0.0	0.0
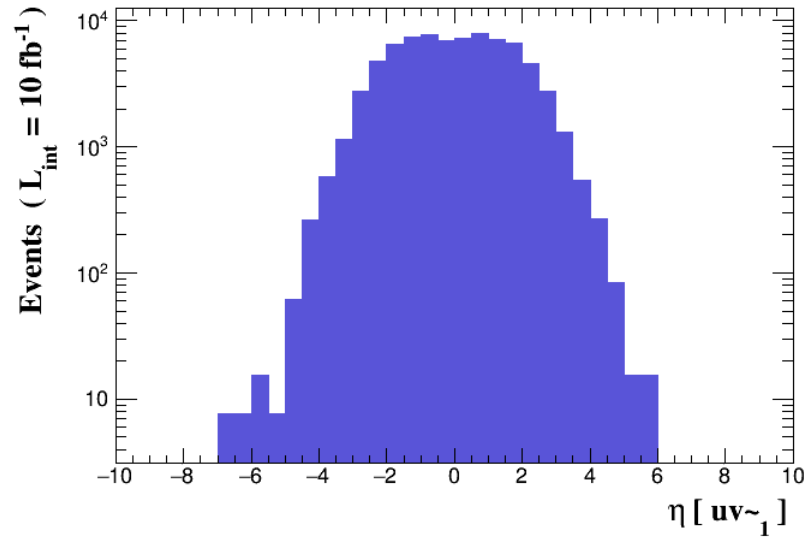
Figure 7.

3.8 Histogram 8

* Plot: M (uv[1] uv [1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	1113.55	286.1	0.0	100.0
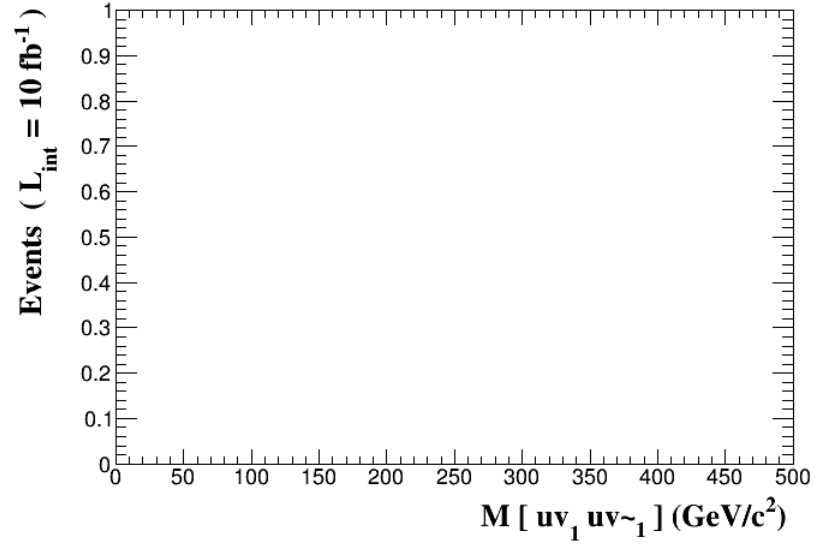
Figure 8.

3.9 Histogram 9

* Plot: DELTAR (uv[1] , uv [1])

Dataset	Integral	Entries per event	Mean	RMS	% underflow	% overflow
unweighted_eve	76810	1.0	3.56808	0.6564	0.0	0.03

Figure 9.