

MAD *Analysis* **5** The LaTeX report

Generated by `surrutiaquir` on 26 September 2025, 10:07:18

This report has been generated automatically by MADANALYSIS 5.

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].

To contact us:

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

Contents

1	Setup	2
1.1	Command history	2
1.2	Configuration	2
2	Datasets	3
2.1	defaultset	3
3	Merging plots	4
3.1	defaultset	4

1 Setup

1.1 Command history

```
ma5>import /Users/surrutiaquir/Software/MG5_aMC_v3_6_2/WPROD/Events/run_01/tag_1_pythia8_events.he
ma5>set main.merging.check = true
ma5>set main.merging.njets = 2
ma5>submit test
```

1.2 Configuration

- MadAnalysis version 1.11.0 (2025/04/23).
- Histograms given for an integrated luminosity of 10fb^{-1} .

2 Datasets

2.1 defaultset

- Samples stored in the directory: `/Users/surrutiaquir/Software/MG5_aMC_v3_6_2/HEPTools/-madanalysis5/madanalysis5` .
- Sample consisting of: `signal` events.
- Generated events: `7950` events.
- Normalization to the luminosity: `730402400 +/- 5222905` events.
- **Ratio (event weight): 91874 - warning: please generate more events (weight larger than 1)!**

Path to the event file	Nr. of events	Cross section (pb)	Negative wgts (%)
<code>/Users/surrutiaquir/Software/-MG5_aMC_v3_6_2/-WPROD/Events/run_01/-tag_1_pythia8_events.hepmc.gz</code>	7950	73040 @ 0.72%	0.0

3 Merging plots

3.1 defaultset

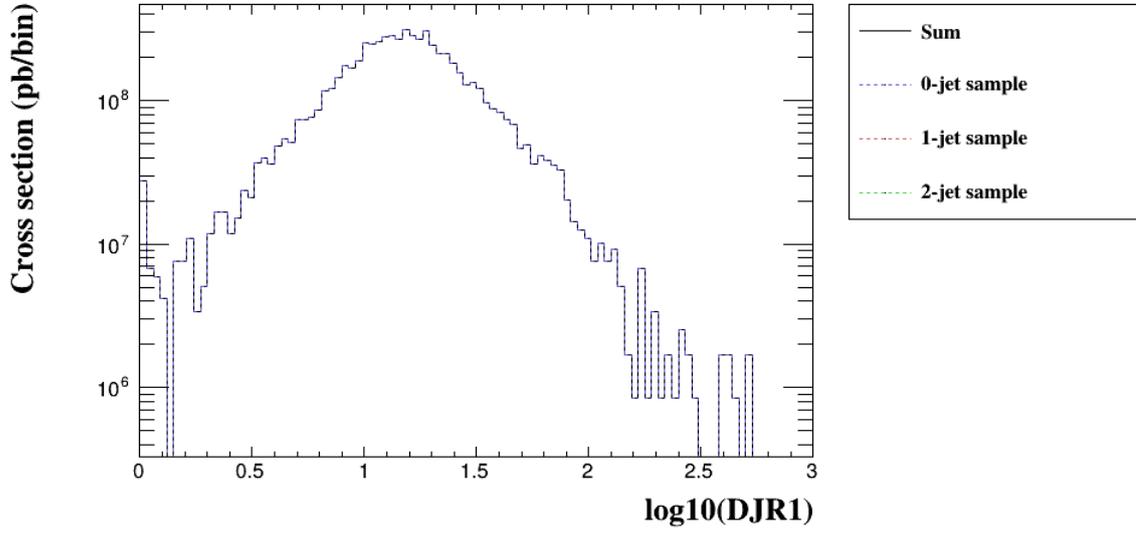


Figure 1. DJR1 : 0 jet -> 1 jet

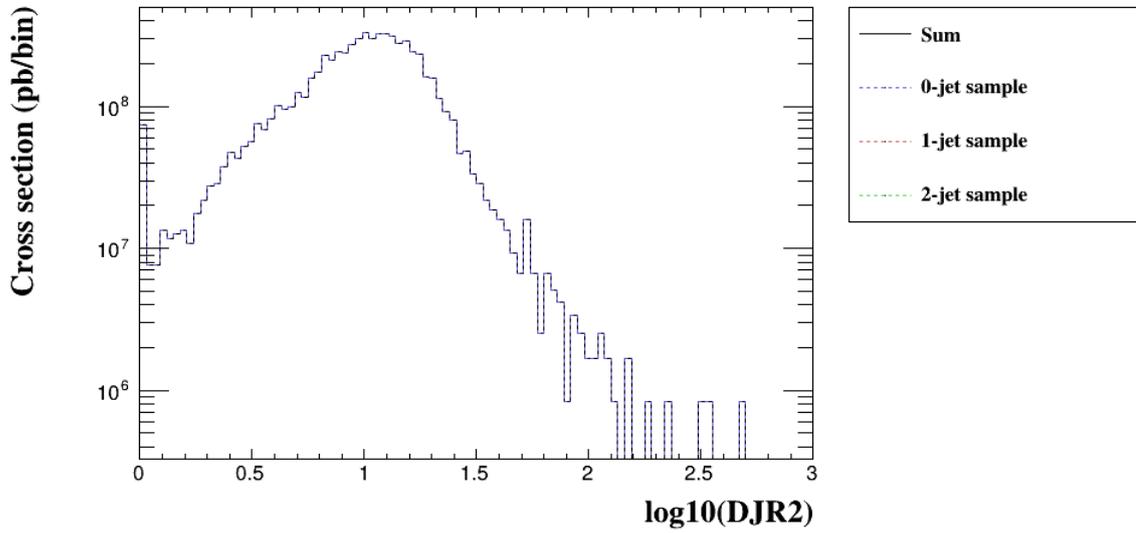


Figure 2. DJR2 : 1 jet -> 2 jets