Chan1

MET >= 200 GeV

MET/HT >= 0.2

njet(pT>50 GeV) >= 4

njet(pT>200 GeV) > 0

HT > 600 GeV

Tot SM events: 214185

Tot lum: 7.8 fb-1

Signals (38666 total):

* Z'+monojet (1130)

* stop stop RPV decay (8889)

* qDM (1581)

* gluino-gluino (4096, 10755)

* squark-squark (4111, 2822)

* stop stop (5282)

⟵ In separate signal files!

Note:

Weights (w) in *background* are 1

(such that w*Nlines/Lum = xsec)

Weights in *signal* are xsec/Nlines

(such that Lum = Nlines/xsec = 1/w)

Chan2a

MET >= 50 GeV
nlep(pT>15 GeV) >= 3

Tot SM events: 20005
Tot lum: 309.6 fb-1

Signals (5868 total):
* lmu-ltau Z' decay to leptons (968, 3781)
* chargino + neutralino production (222,226,311, 360)

Chan2b

MET >= 50 GeV
nlep(pT>15 GeV) >= 2
HT >= 50 GeV

Tot SM events: 340268
Tot lum: 7.8 fb-1

Signals (89676 total):
* lmu-ltau Z' decay to leptons (3402, 8499)
* stop stop RPV decay (13626)
* chargino-chargino (665,849,1205)
* chargino-neutralino (1316,1513)
* gluino-gluino (58541)

Chan3

MET >= 100 GeV

HT >= 600 GeV

Tot SM events: 8544111

Tot lum: 8.0 fb-1

Signals (1023320 total):

* Z'(2TeV)+monojet (6399)
* Z'(2TeV)+monoV (6120)
* qDM (6120)
* stop stop RPV decay (33397)
* gluino-gluino (8679, 17484, 918180)
* squark-squark (8881, 7632)
* stop-stop (9287)

If you find out that something is wrong with the dataset, please tell me!

(preferably by email: mcbeekveld@gmail.com)