

Mumu Channel Update

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Grid Scan Results:

Fully Hadronic Channel:

- 2 muons
- Dimuon mass > 106 GeV
- 2 jets with mass $50 < \text{jet_mass} < 100$ GeV

Cuts:

- (Max) Muon momentum: [2500, 6000]
- Muon eta: [2.25, 2.5]
- Jet momentum: [0, 1000]
- Jet eta: [2.25, 2.5]

Semi-Leptonic Channel:

- 1 muon
- 1 electron
- 1 jet with mass $50 < \text{jet_mass} < 100$ GeV

Cuts:

- Missing momentum: [1500, 2000]
- (Max) Muon momentum: [1500, 2000, 2500]
- Muon eta: [2, 2.3, 2.5]
- Electron momentum: [500, 750, 1000]

Fully Hadronic Channel

Loose Jet cuts

Muon P	Muon Eta	Lower Limit	Upper Limit
6000	2.5	-0.0227	0.0227
6000	2.25	-0.0208	0.0208
2500	2.5	-0.0227	0.0227
2500	2.25	-0.0208	0.0208

Loose Muon cuts

Jet P	Jet Eta	Lower Limit	Upper Limit
0	2.5	-0.0227	0.0227
0	2.25	-0.0212	0.0212
1000	2.5	-0.0228	0.0228
1000	2.25	-0.0213	0.0213

Best Limits: [-0.0196, 0.0196]

- Muon P: 2500
- Muon Eta: 2.25
- Jet P: 0
- Jet Eta: 2.25