Weekly

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3/1

Data/MC

Low Njet CR

	ee	mm	em
Jet fakes	&410.53$\pm$100.57	&351.11$\pm$12.32	&469.79$\pm$32.43
PromptSS	&252.62$\pm$7.99	&284.50$\pm$7.96	&577.05$\pm$11.13
$V+\gamma$	&197.23$\pm$14.97	&0.58$\pm$0.56	&165.38$\pm$16.74
QmisID	&1174.44$\pm$6.39	&0.00$\pm$0.00	&201.29$\pm$2.25
Total predicted	&2034.82$\pm$102.19	&636.19$\pm$14.68	&1413.50$\pm$38.22
Observed	&2231.00$\pm$47.23	&475.00$\pm$21.79	&1657.00$\pm$40.71

High Njet CR

	ee	mm	em
Jet fakes	&192.65$\pm$54.72	&169.56$\pm$7.70	&189.69$\pm$31.59
PromptSS	&121.38$\pm$5.85	&129.89$\pm$5.21	&270.08$\pm$7.45
$V+\gamma$	&66.46$\pm$6.83	&0.01$\pm$0.01	&80.97$\pm$14.80
QmisID	&393.90$\pm$3.83	&0.00$\pm$0.00	&90.16$\pm$1.52
Total predicted	&774.40$\pm$55.59	&299.46$\pm$9.30	&630.90$\pm$35.70
Observed	&793.00$\pm$28.16	&219.00$\pm$14.80	&703.00$\pm$26.51

Opimization selections

		mindR_l2j <	mindR_l1j <	m_l1jj <
non-res	ee			-
	mm			-
	em			-
mH260	ee	2.5	2.2	120
	mm	1.9	2	120
	em	2	2.4	120
mH300	ee	2.4	1.8	150
	mm	1.8	2.3	140
	em	2	2.1	140
mH400	ee	1.9	1.2	210
	mm	1.4	1.1	260
	em	1.4	1.1	230
mH500	ee	0.9	0.8	320
	mm	1.2	1	310
	em	1	0.8	290

Resonance

mH260

ee

```
signal: 0.300576+-0.0183581        454
promptSS: 12.1061+-1.62745         695
Vgam: 9.49686+-2.17681              35
QmisID: 44.3201+-0.905411          7782
Fakes: 17.3399+-34.5397        162-191-118-0
total bkg: 83.263+-34.6583
predicted: 83.5636+-34.6583
s/sqrt(B): 0.0329404
```

mH300

```
signal: 0.54024+-0.0276021         800
promptSS: 24.5137+-2.09789        1535
Vgam: 16.5485+-3.50955              69
QmisID: 83.3178+-1.30184          13772
Fakes: 22.1602+-43.7204        286-366-228-0
total bkg: 146.54+-43.9304
predicted: 147.08+-43.9304
s/sqrt(B): 0.0446281
```

mm

```
signal: 0.549355+-0.0284911        777
promptSS: 12.9131+-1.25833        1091
Vgam:      0+-0                      0
QmisID:    0+-0                      0
Fakes: 2.25832+-4.40983        96-290-281-0
total bkg: 15.1714+-4.58585
predicted: 15.7208+-4.58594
s/sqrt(B): 0.141039
```

```
signal: 1.12217+-0.0474976        1481
promptSS: 20.388+-1.70675         1769
Vgam:      0+-0                      0
QmisID:    0+-0                      0
Fakes: 5.38229+-5.7253        165-458-454-0
total bkg: 25.7703+-5.97428
predicted: 26.8924+-5.97447
s/sqrt(B): 0.221055
```

em

```
signal: 0.885776+-0.0352006        1248
promptSS: 26.9064+-2.03224         1867
Vgam: 8.25228+-2.257                 28
QmisID: 8.17769+-0.360139          2715
Fakes: 37.8843+-5.21338        123-357-80-0
total bkg: 81.2207+-6.04426
predicted: 82.1064+-6.04436
s/sqrt(B): 0.0982858
```

```
signal: 1.6014+-0.0502982          2318
promptSS: 47.3605+-2.78227         3148
Vgam: 13.2769+-3.35427               46
QmisID: 14.8036+-0.499917          4565
Fakes: 59.3365+-6.9894        207-565-162-0
total bkg: 134.777+-8.2519
predicted: 136.379+-8.25205
s/sqrt(B): 0.137941
```

Resonance

mH400

mH500

ee

```
signal: 0.798763+-0.0437461      1026
promptSS: 16.5531+-1.43201       1595
Vgam: 8.28597+-2.35961           61
QmisID: 46.0402+-1.12664         5995
Fakes: 18.1755+-27.3616          159-352-197-0
total bkg: 89.0547+-27.5235
predicted: 89.8535+-27.5236
s/sqrt(B): 0.0846427
```

```
signal: 0.638671+-0.0341171      835
promptSS: 5.20631+-0.869984      371
Vgam: 0.996895+-0.392314         22
QmisID: 9.75589+-0.558164        1062
Fakes: 4.80724+-3.57064          23-74-52-0
total bkg: 20.7663+-3.73788
predicted: 21.405+-3.73804
s/sqrt(B): 0.140151
```

mm

```
signal: 1.54722+-0.053927        2046
promptSS: 17.467+-1.46357        1776
Vgam:     0+-0                   0
QmisID:     0+-0                 0
Fakes: 2.17119+-4.12656          113-430-317-0
total bkg: 19.6382+-4.37842
predicted: 21.1854+-4.37875
s/sqrt(B): 0.349141
```

```
signal: 2.30436+-0.055425        3270
promptSS: 13.0743+-1.2571        1379
Vgam:     0+-0                   0
QmisID:     0+-0                 0
Fakes: 1.86591+-3.51647          85-352-243-0
total bkg: 14.9402+-3.73442
predicted: 17.2446+-3.73483
s/sqrt(B): 0.596171
```

em

```
signal: 2.25506+-0.0661409       3081
promptSS: 30.506+-2.06582        2981
Vgam: 8.63986+-2.88936           50
QmisID: 10.5607+-0.472196        2727
Fakes: 34.8269+-5.65935          114-488-99-0
total bkg: 84.5335+-6.6983
predicted: 86.7886+-6.69863
s/sqrt(B): 0.245269
```

```
signal: 2.32595+-0.0558306       3317
promptSS: 11.9269+-1.15249       1237
Vgam: 4.22334+-2.43518           25
QmisID: 3.86438+-0.303099        921
Fakes: 16.212+-3.63936           48-206-36-0
total bkg: 36.2267+-4.53819
predicted: 38.5527+-4.53853
s/sqrt(B): 0.386444
```

Back up