

Table 1: Lepton trigger scale factor, fractional  $\Delta$  Acceptance in High Mass control region

| <b>samples</b>      | <b>enujj</b> | <b>munujj</b> |
|---------------------|--------------|---------------|
| herwig.ww           | 0.56         | 1.72          |
| herwig.wz           | 0.55         | 1.70          |
| herwig.zz           | 0.65         | 1.79          |
| herwig.vv           | 0.56         | 1.71          |
| mcatnlo.ttbar       | 0.56         | 1.74          |
| mcatnlo.top         | 0.56         | 1.74          |
| mcatnlo.singletop   | 0.56         | 1.73          |
| alpgen.wjets        | 0.56         | 1.71          |
| alpgen.zjets        | 0.53         | 1.75          |
| qcd.alpgen          | -            | -             |
| rsg.m500.kmpl0_1    | 0.55         | 1.74          |
| rsg.m750.kmpl0_1    | 0.56         | 1.72          |
| rsg.m1000.kmpl0_1   | 0.56         | 1.73          |
| rsg.m1250.kmpl0_1   | 0.56         | 1.71          |
| rsg.m1500.kmpl0_1   | 0.56         | 1.71          |
| wprime.wz.m500      | 0.56         | 1.72          |
| wprime.wz.m600      | 0.56         | 1.72          |
| wprime.wz.m700      | 0.56         | 1.73          |
| wprime.wz.m800      | 0.56         | 1.75          |
| wprime.wz.m900      | 0.56         | 1.73          |
| wprime.wz.m1000     | 0.56         | 1.75          |
| wprime.wz.m1100     | 0.55         | 1.73          |
| wprime.wz.m1200     | 0.56         | 1.73          |
| wprime.wz.m1300     | 0.56         | 1.71          |
| wprime.wz.m1400     | 0.55         | 1.74          |
| wprime.wz.m1500     | 0.55         | 1.68          |
| afii.kkg.lvjj.m500  | 0.56         | 1.74          |
| afii.kkg.lvjj.m600  | 0.56         | 1.75          |
| afii.kkg.lvjj.m700  | 0.55         | 1.74          |
| afii.kkg.lvjj.m800  | 0.56         | 1.74          |
| afii.kkg.lvjj.m900  | 0.56         | 1.75          |
| afii.kkg.lvjj.m1000 | 0.56         | 1.78          |
| afii.kkg.lvjj.m1100 | 0.56         | 1.76          |
| afii.kkg.lvjj.m1200 | 0.57         | 1.73          |
| afii.kkg.lvjj.m1300 | 0.55         | 1.73          |
| afii.kkg.lvjj.m1400 | 0.53         | 1.71          |
| afii.kkg.lvjj.m1500 | 0.55         | 1.71          |

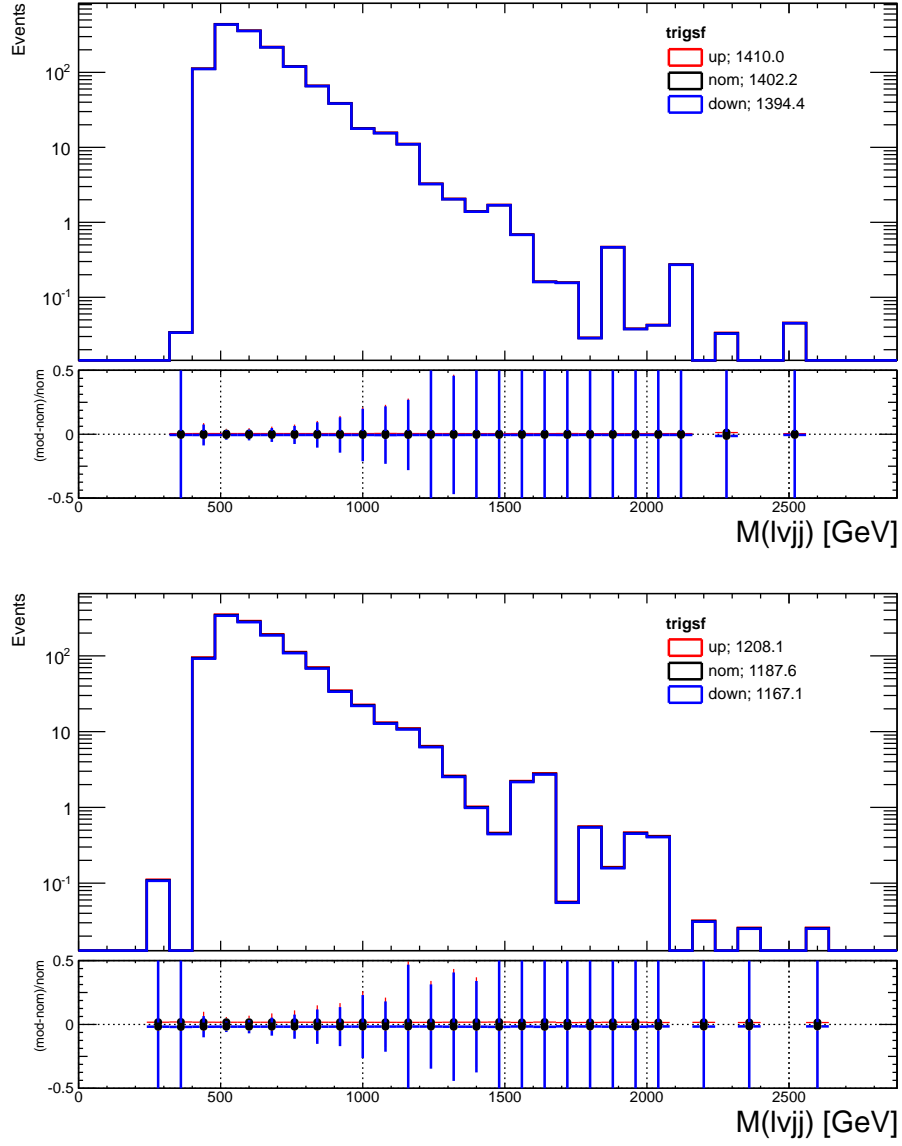


Figure 1: Transverse mass of the system for electron (top) and muon (bottom) channels