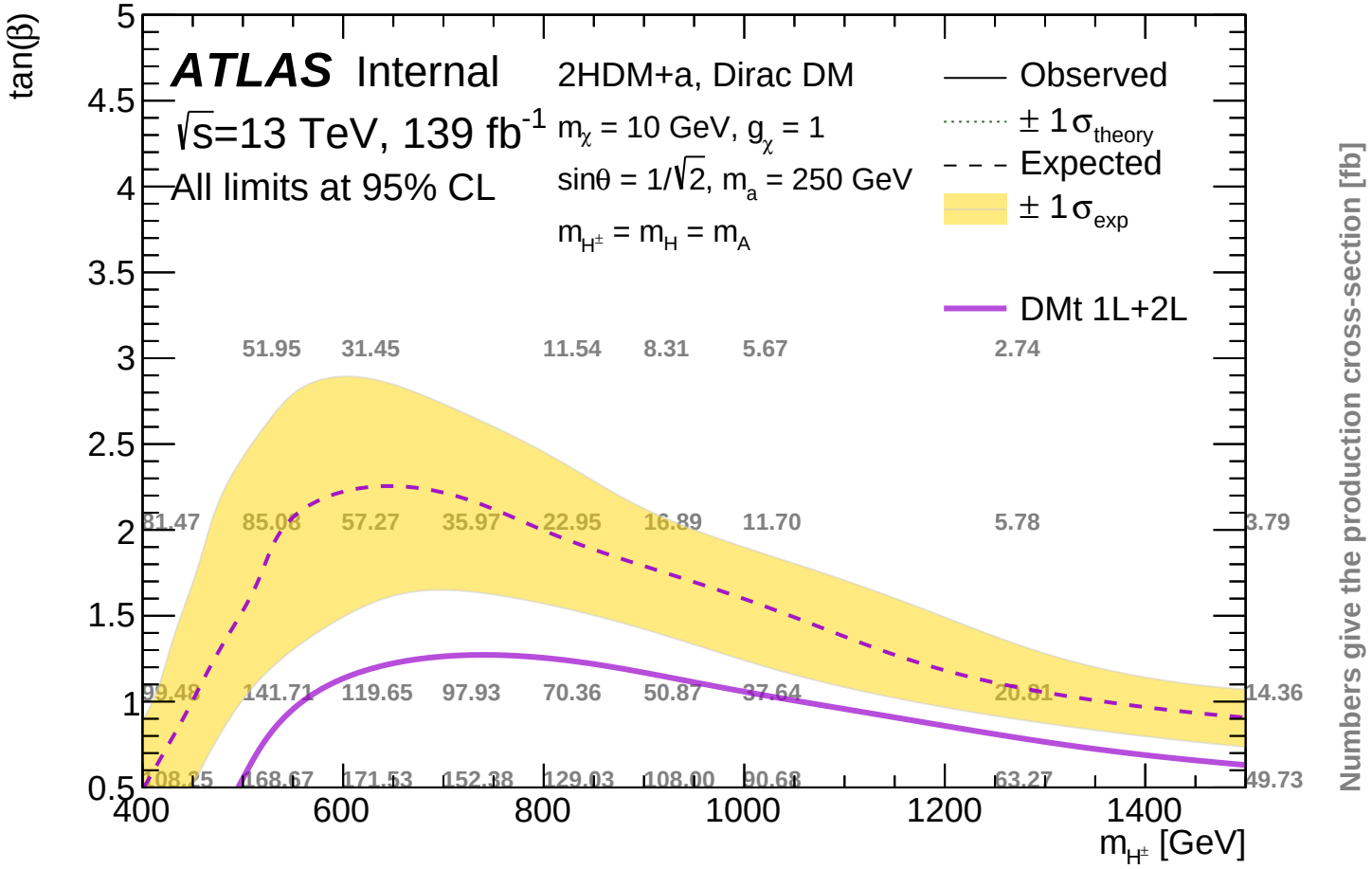
ATLAS Internal
√s=13 TeV, 139 fb-1
All limits at 95% CL
2HDM+a, Dirac DM
mχ = 10 GeV, gχ = 1
sinθ = 1/√2, ma = 250 GeV
mH± = mH = mA
Observed
± 1σtheory
Expected
± 1σexp
DMt 1L+2L
tan(β)
mH± [GeV]
Numbers give the production cross-section [fb]
51.95
31.45
11.54
8.31
5.67
2.74
81.47
85.06
57.27
35.97
22.95
16.89
11.70
5.78
3.79
99.48
141.71
119.65
97.93
70.36
50.87
37.64
20.81
14.36
108.15
168.67
171.53
152.38
129.03
108.00
90.68
63.27
49.73