

Supplementary material for "Signal region combination with full and simplified likelihoods in MadAnalysis 5"

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ATLAS-SUSY-2018-04

m_stau = 350 GeV, m_LSP = 50 GeV (xsec 0.00333175 pb)

	accXeff_ATLAS	accXeff_MA5	Nevts_ATLAS	Nevts_MA5
SRlow	0.00647	0.00825	3.00	3.82
SRHigh	0.02427	0.03348	11.24	15.5

	sig95exp pre-, post-fit	sig95obs	1-CLs
ATLAS	0.004075, 0.003014	0.0024452	0.99
MA5	0.0029299, 0.0021774	0.0017630	0.999

m_stau = 375 GeV, m_LSP = 50 GeV (xsec 0.002476025 pb)

	accXeff_ATLAS	accXeff_MA5	Nevts_ATLAS	Nevts_MA5
SRlow	0.00654	0.00806	2.25	2.77
SRHigh	0.02615	0.03723	9.00	12.8

	sig95exp pre-, post-fit	sig95obs	1-CLs
ATLAS	0.003751, 0.002787	0.002257	0.967
MA5	0.0025892, 0.0019475	0.0015747	0.997

m_stau = 400 GeV, m_LSP = 50 GeV (xsec 0.0018591 pb)

	accXeff_ATLAS	accXeff_MA5	Nevts_ATLAS	Nevts_MA5
SRlow	0.00646	0.00779	1.67	2.01
SRHigh	0.03016	0.04119	7.79	10.6

	sig95exp pre-, post-fit	sig95obs	1-CLs
ATLAS	0.003178, 0.0024032	0.0019406	0.940
MA5	0.0022853, 0.0017533	0.0014102	0.988

CMS-SUS-19-006

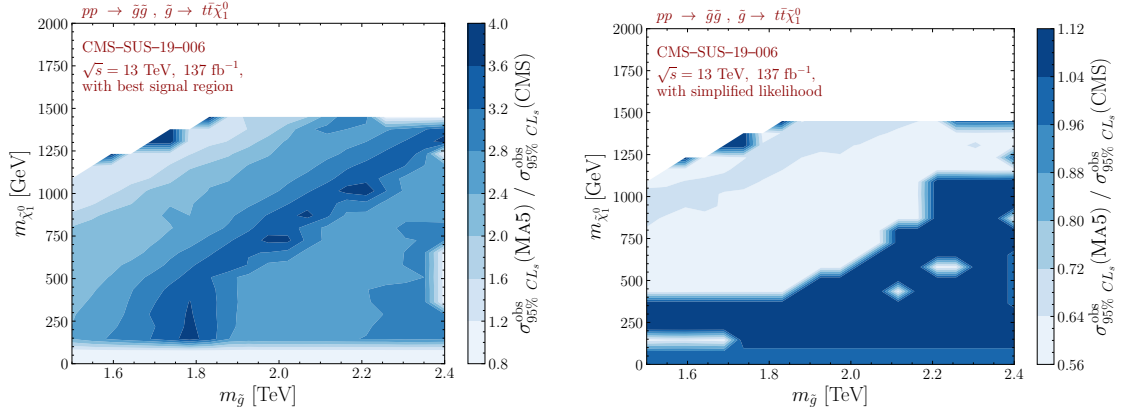


Figure 1: Comparison of observed upper limits on cross section from CMS and the recast with MadAnalysis5 for the CMS-SUS-19-006 analysis.

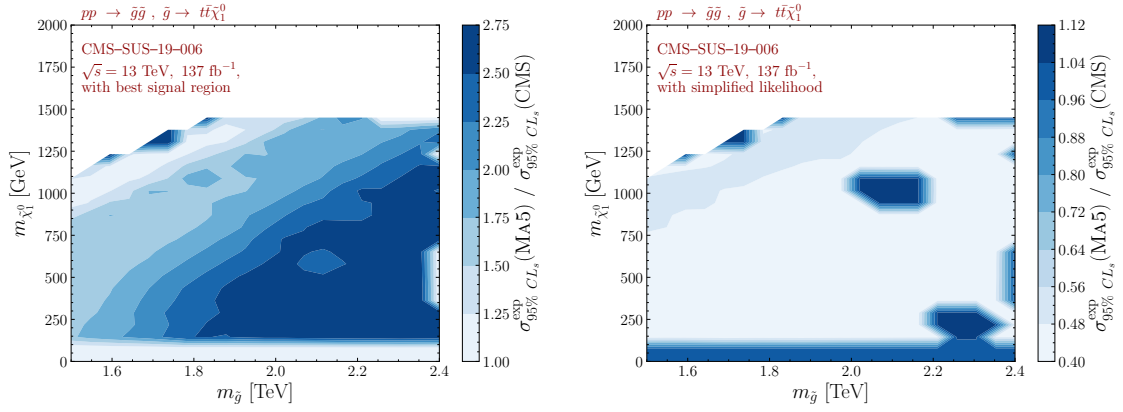


Figure 2: Comparison of expected upper limits on cross section from CMS and the recast with MadAnalysis5 for the CMS-SUS-19-006 analysis.