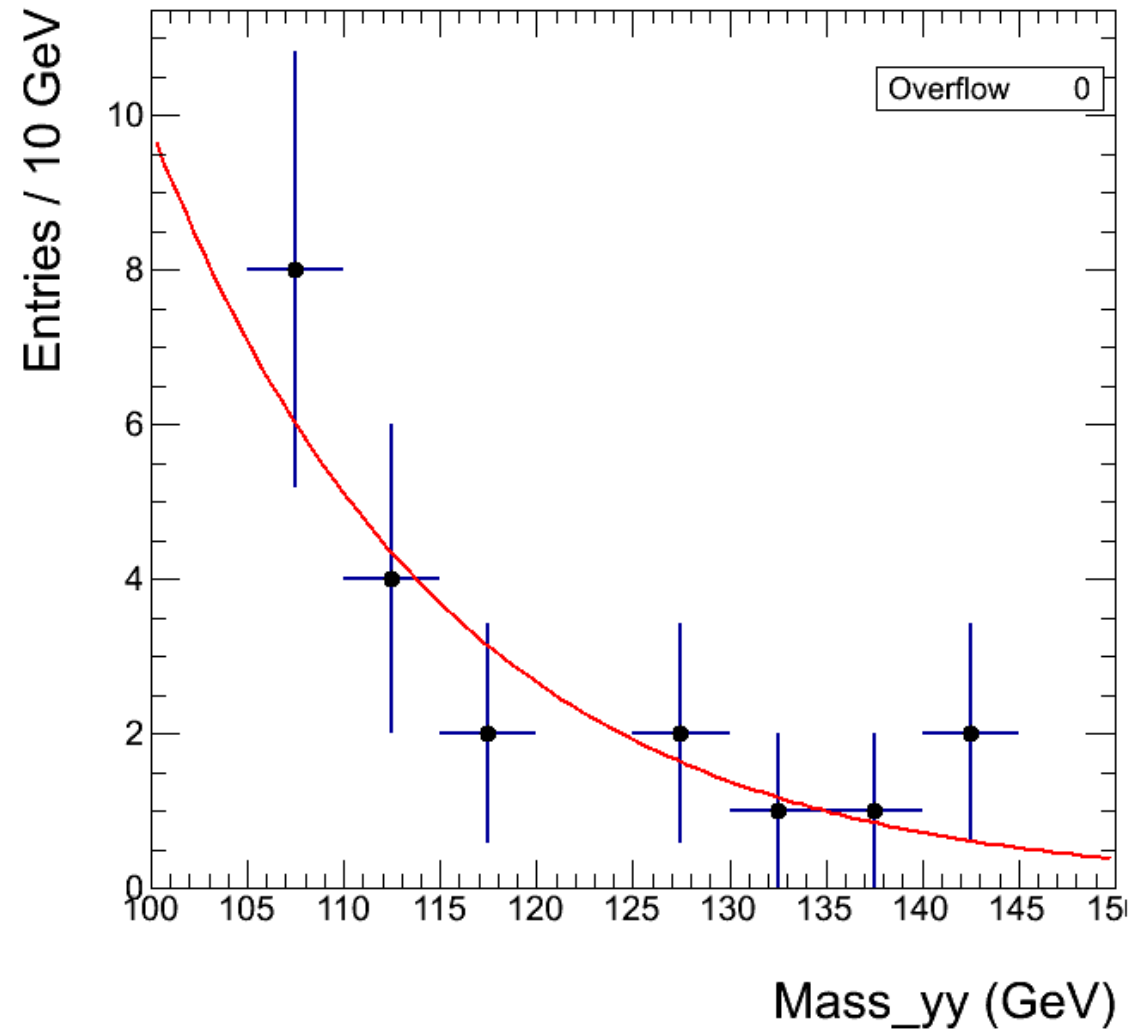


Distribution of background using revISO



backup

Bveto effect

MV1	B-tagging eff	Tth cut efficiency	Signal cut efficiency
0.39	80%	10%	80%
0.81	70%	17%	89%

Expected events in signal region

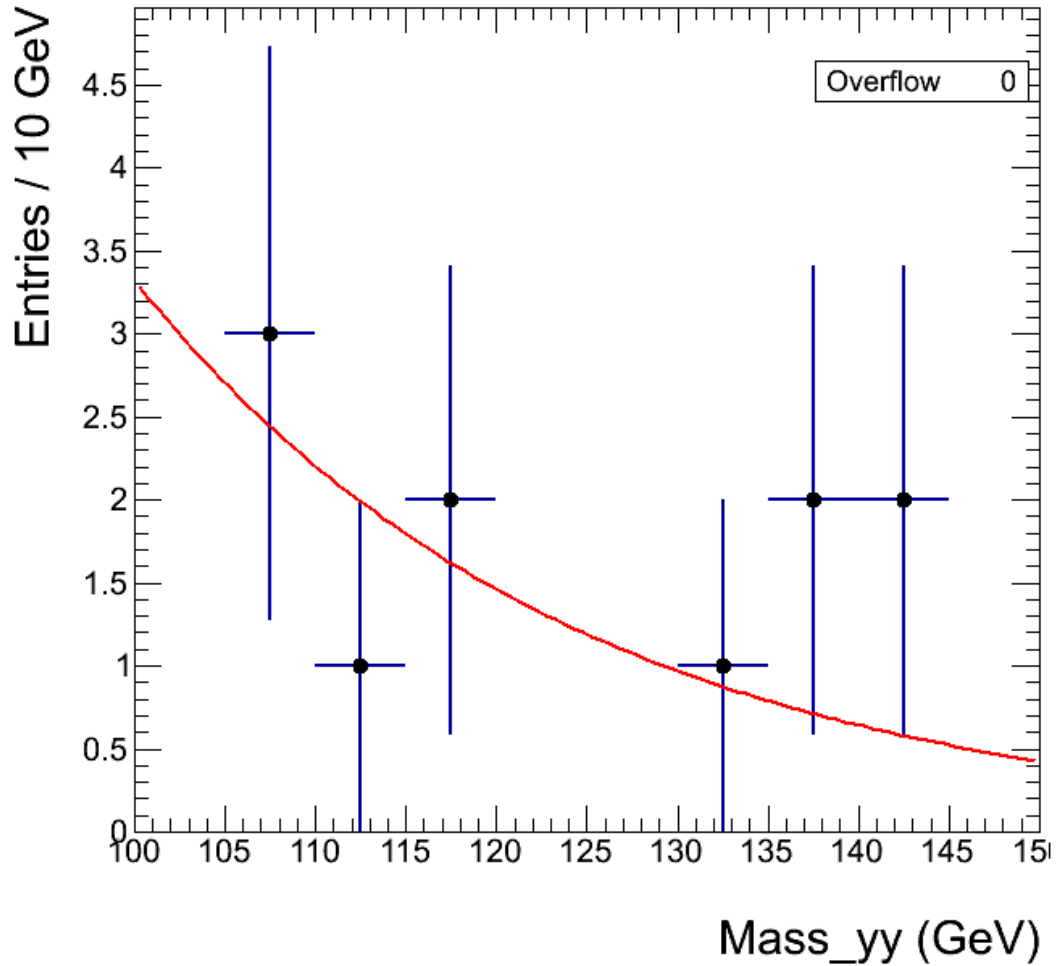
1L

- $x_s(pp \rightarrow H \rightarrow hh) * 2 * Br(h \rightarrow yy) * Br(h \rightarrow ww) * 2 * Br(w \rightarrow lv) * Br(w \rightarrow jj) * eff * lumi$
= $x_s * 0.00228 * 0.215 * 0.3 * 0.6 * 4 * 0.07 * 20000$
= $0.5 * x_s$

2L

- $x_s(pp \rightarrow H \rightarrow hh) * 2 * Br(h \rightarrow yy) * Br(h \rightarrow ww) * Br(w \rightarrow lv)^2 * Br(w \rightarrow jj) * eff * lumi$
= $0.1 * x_s$

Expected bkg in signal region



About 2.5 bkg

Wh = 0.7

Tth = 0.1

Others = 1.7.