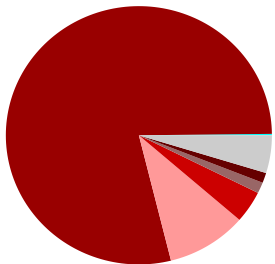


CMS Simulation Preliminary SL (4 jets, ≥ 3 b tags) Pre-fit expectation

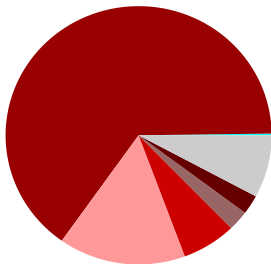
$t\bar{t}+lf$ node

S/B = 0.0018, S/\sqrt{B} = 0.23



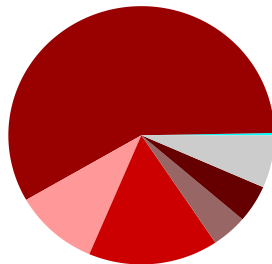
$t\bar{t}+c\bar{c}$ node

S/B = 0.0021, S/\sqrt{B} = 0.15



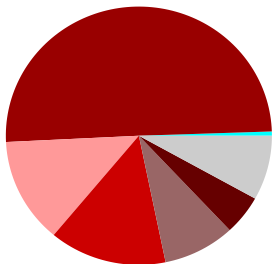
$t\bar{t}+b$ node

S/B = 0.0029, S/\sqrt{B} = 0.15



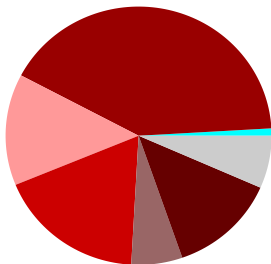
$t\bar{t}+2b$ node

S/B = 0.0053, S/\sqrt{B} = 0.28



$t\bar{t}+bb$ node

S/B = 0.0092, S/\sqrt{B} = 0.33



$t\bar{t}H$ node

S/B = 0.0118, S/\sqrt{B} = 0.76

