CMS *Simulation Preliminary*
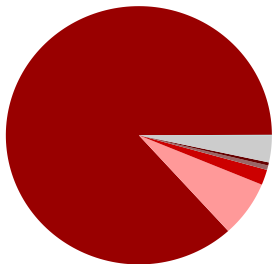
Pre-fit expectation

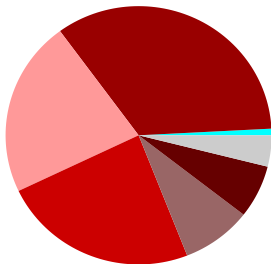**DL (3 jets, 2 b tags)**
S/B = 0.0007, S/√B = 0.14
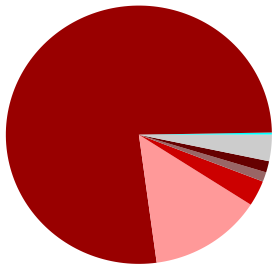
DL (3 jets, 3 b tags)
S/B = 0.0083, S/√B = 0.28

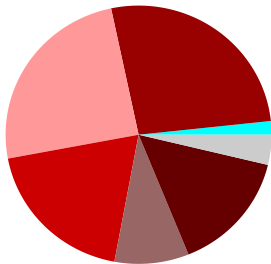**DL (≥ 4 jets, 2 b tags)**
S/B = 0.0028, S/√B = 0.53

DL (≥ 4 jets, 3 b tags)
S/B = 0.0173, S/√B = 0.88

DL (≥ 4 jets, ≥ 4 b tags)
S/B = 0.0624, S/√B = 0.89

$t\bar{t}H$

$t\bar{t}+lf$

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

$t\bar{t}+b$

$t\bar{t}+2b$

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

Other Bkg