



CMS Internal

$\hat{r} = 0.22^{+0.18}_{-0.17}$

31	sr2018failmass40to120recoil0_zjets_bin6
32	sr2018failmass40to120recoil0_zjets_bin4
33	qcdsig_norm2018fail
34	sr2018failmass120to300recoil0_zjets_bin0
35	sr2018failmass40to120recoil0_zjets_bin2
36	sr2017failmass40to120recoil1_zjets_bin3
37	sr2018failmass120to300recoil0_zjets_bin1
38	sr2018failmass40to120recoil0_zjets_bin5
39	sr2017failmass40to120recoil0_zjets_bin4
40	sr2016failmass40to120recoil3_zjets_bin5
41	sr2018failmass120to300recoil0_zjets_bin2
42	sr2016failmass40to120recoil3_zjets_bin3
43	sr2016failmass40to120recoil2_zjets_bin4
44	sr2018failmass40to120recoil0_zjets_bin1
45	CMS_scale_j_2018
46	qcdsig_norm2017pass
47	doublebttag_2016
48	sr2018failmass40to120recoil1_zjets_bin4
49	sr2018failmass120to300recoil0_zjets_bin3
50	sr2016failmass40to120recoil2_zjets_bin5
51	qcd3
52	tt_norm2018fail
53	sr2017failmass40to120recoil3_zjets_bin2
54	tf_dataResidualZ2017_recoil_par0_fjmass_par1
55	sr2018failmass40to120recoil1_zjets_bin3
56	sr2017failmass120to300recoil0_zjets_bin2
57	sr2018failmass40to120recoil2_zjets_bin0
58	sr2018failmass40to120recoil1_zjets_bin2
59	sr2018failmass40to120recoil0_zjets_bin0
60	sr2016failmass40to120recoil4_zjets_bin3

