

Heatmap showing the correlation matrix for 10 variables at 13 TeV, 36.1 fb⁻¹. The color scale ranges from -1 (dark blue) to 1 (yellow). The diagonal elements are all 1.0. The off-diagonal elements show varying degrees of correlation, with alpha_norm_zjets and qcdNorm showing the strongest negative correlation (approx. -0.8).

Variable	Lumi	alpha_norm_diboson	alpha_norm_sgtop	alpha_norm_ttbar	alpha_norm_wjets	alpha_norm_zjets	stat_channel_bin_2	stat_channel_bin_3	stat_channel_bin_4	qcdNorm
Lumi	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
alpha_norm_diboson	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
alpha_norm_sgtop	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
alpha_norm_ttbar	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
alpha_norm_wjets	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
alpha_norm_zjets	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-0.8
stat_channel_bin_2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
stat_channel_bin_3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
stat_channel_bin_4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
qcdNorm	0.0	0.0	0.0	0.0	0.0	-0.8	0.0	0.0	0.0	1.0

13TeV, 36.1