

Figure 1 displays the impact of dropping variables on the performance of different machine learning models. The figure is organized into a grid where rows represent variables and columns represent models. The color scale indicates the impact of dropping a variable: grey for 'Not present', green for 'Kept', yellow for 'Shape dropped', orange for 'Norm. dropped', and red for 'Dropped'.

The variables (rows) are categorized as follows:

- Top 10 variables:** Luminosity, Signal μ_e , Signal μ_μ , Signal μ_e and μ_μ , $\hat{t}\bar{t}$ non-prompt lep. (b-decay), $\hat{t}\bar{t}$ non-prompt lep. (photon conv.), $\hat{t}\bar{t}$ μ_e , $\hat{t}\bar{t}$ μ_μ , $\hat{t}\bar{t}$ μ_e and μ_μ , $\hat{t}\bar{t}$ FSR.
- Next 10 variables:** $\hat{t}\bar{t}$ A14 tune (ISR), $\hat{t}\bar{t}$ PDF, $\hat{t}\bar{t}$ hdamp, $\hat{t}\bar{t}$ PS, Other fakes norm., VV+HF_5_Jet, VV+HF_4_Jet, VV+HF_3_Jet, VV+HF_2_Jet, VV+HF_1_Jet, VV+LF_1_Jet, VV+LF_2_Jet, VV+LF_3_Jet, VV+LF_4_Jet, VV+LF_5_Jet, VV+LF_6_Jet, VV+LF_7_Jet, VV+LF_8_Jet, VV+LF_9_Jet, VV+LF_10_Jet, VV+LF_11_Jet, VV+LF_12_Jet, VV+LF_13_Jet, VV+LF_14_Jet, VV+LF_15_Jet, VV+LF_16_Jet, VV+LF_17_Jet, VV+LF_18_Jet, VV+LF_19_Jet, VV+LF_20_Jet, VV+LF_21_Jet, VV+LF_22_Jet, VV+LF_23_Jet, VV+LF_24_Jet, VV+LF_25_Jet, VV+LF_26_Jet, VV+LF_27_Jet, VV+LF_28_Jet, VV+LF_29_Jet, VV+LF_30_Jet, VV+LF_31_Jet, VV+LF_32_Jet, VV+LF_33_Jet, VV+LF_34_Jet, VV+LF_35_Jet, VV+LF_36_Jet, VV+LF_37_Jet, VV+LF_38_Jet, VV+LF_39_Jet, VV+LF_40_Jet, VV+LF_41_Jet, VV+LF_42_Jet, VV+LF_43_Jet, VV+LF_44_Jet, VV+LF_45_Jet, VV+LF_46_Jet, VV+LF_47_Jet, VV+LF_48_Jet, VV+LF_49_Jet, VV+LF_50_Jet, VV+LF_51_Jet, VV+LF_52_Jet, VV+LF_53_Jet, VV+LF_54_Jet, VV+LF_55_Jet, VV+LF_56_Jet, VV+LF_57_Jet, VV+LF_58_Jet, VV+LF_59_Jet, VV+LF_60_Jet, VV+LF_61_Jet, VV+LF_62_Jet, VV+LF_63_Jet, VV+LF_64_Jet, VV+LF_65_Jet, VV+LF_66_Jet, VV+LF_67_Jet, VV+LF_68_Jet, VV+LF_69_Jet, VV+LF_70_Jet, VV+LF_71_Jet, VV+LF_72_Jet, VV+LF_73_Jet, VV+LF_74_Jet, VV+LF_75_Jet, VV+LF_76_Jet, VV+LF_77_Jet, VV+LF_78_Jet, VV+LF_79_Jet, VV+LF_80_Jet, VV+LF_81_Jet, VV+LF_82_Jet, VV+LF_83_Jet, VV+LF_84_Jet, VV+LF_85_Jet, VV+LF_86_Jet, VV+LF_87_Jet, VV+LF_88_Jet, VV+LF_89_Jet, VV+LF_90_Jet, VV+LF_91_Jet, VV+LF_92_Jet, VV+LF_93_Jet, VV+LF_94_Jet, VV+LF_95_Jet, VV+LF_96_Jet, VV+LF_97_Jet, VV+LF_98_Jet, VV+LF_99_Jet, VV+LF_100_Jet, VV+LF_101_Jet, VV+LF_102_Jet, VV+LF_103_Jet, VV+LF_104_Jet, VV+LF_105_Jet, VV+LF_106_Jet, VV+LF_107_Jet, VV+LF_108_Jet, VV+LF_109_Jet, VV+LF_110_Jet, VV+LF_111_Jet, VV+LF_112_Jet, VV+LF_113_Jet, VV+LF_114_Jet, VV+LF_115_Jet, VV+LF_116_Jet, VV+LF_117_Jet, VV+LF_118_Jet, VV+LF_119_Jet, VV+LF_120_Jet, VV+LF_121_Jet, VV+LF_122_Jet, VV+LF_123_Jet, VV+LF_124_Jet, VV+LF_125_Jet, VV+LF_126_Jet, 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