

Process	Pearson correlation coefficient
<i>Background</i>	
Zero bias data (random pp collisions)	0.27
Zero bias simulation (soft multijet production)	0.35
<i>Signal: standard model</i>	
Top quark pair ($t\bar{t}$) inclusive production	0.57
ggF Higgs boson production, $H \rightarrow \gamma\gamma$	0.51
VBF Higgs boson production, $H \rightarrow b\bar{b}$	0.43
<i>Signal: beyond standard model</i>	
ggF Higgs boson production, $H \rightarrow 2 \text{ LLP } (c\tau = 900 \text{ mm}) \rightarrow 4b$	0.54
SUEP, ggF Higgs boson production, $H \rightarrow \text{dark quarks}$ $\rightarrow \text{dark shower} \rightarrow \text{dark photons} \rightarrow \pi^+\pi^-$	0.54