

Cross section variables	dof	$\chi^2$		
		POW+PYT	POW+HER	FXFX+PYT
$[ y(\mathbf{t}) , p_{\text{T}}(\mathbf{t})]$	15	40	30	71
$[m(\mathbf{t}\bar{\mathbf{t}}), p_{\text{T}}(\mathbf{t})]$	8	83	41	152
$[p_{\text{T}}(\mathbf{t}), p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	15	39	83	69
$[m(\mathbf{t}\bar{\mathbf{t}}),  y(\mathbf{t}\bar{\mathbf{t}}) ]$	15	64	63	66
$[ y(\mathbf{t}\bar{\mathbf{t}}) , p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	15	28	70	36
$[m(\mathbf{t}\bar{\mathbf{t}}), p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	15	61	112	71
$[p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}}), m(\mathbf{t}\bar{\mathbf{t}}), y(\mathbf{t}\bar{\mathbf{t}})]$	47	90	134	107
$[m(\mathbf{t}\bar{\mathbf{t}}),  y(\mathbf{t}) ]$	15	61	49	83
$[m(\mathbf{t}\bar{\mathbf{t}}),  \Delta\eta(\mathbf{t}, \bar{\mathbf{t}}) ]$	11	165	124	233
$[m(\mathbf{t}\bar{\mathbf{t}}),  \Delta\phi(\mathbf{t}, \bar{\mathbf{t}}) ]$	11	74	91	49