

Cross section variables	p -values of χ^2 (in %)	
	POW+PYT (w. unc.)	STRIPPER
$[y(\mathbf{t}) , p_{\text{T}}(\mathbf{t})]$	<1 (3)	39
$[m(\mathbf{t}\bar{\mathbf{t}}), p_{\text{T}}(\mathbf{t})]$	<1 (<1)	<1
$[p_{\text{T}}(\mathbf{t}), p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	<1 (17)	<1
$[m(\mathbf{t}\bar{\mathbf{t}}), y(\mathbf{t}\bar{\mathbf{t}})]$	<1 (<1)	<1
$[y(\mathbf{t}\bar{\mathbf{t}}) , p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	1 (27)	<1
$[m(\mathbf{t}\bar{\mathbf{t}}), p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}})]$	<1 (<1)	<1
$[p_{\text{T}}(\mathbf{t}\bar{\mathbf{t}}), m(\mathbf{t}\bar{\mathbf{t}}), y(\mathbf{t}\bar{\mathbf{t}})]$	<1 (3)	<1
$[m(\mathbf{t}\bar{\mathbf{t}}), y(\mathbf{t})]$	<1 (5)	20
$[m(\mathbf{t}\bar{\mathbf{t}}), \Delta\eta(\mathbf{t}, \bar{\mathbf{t}})]$	<1 (<1)	<1
$[m(\mathbf{t}\bar{\mathbf{t}}), \Delta\phi(\mathbf{t}, \bar{\mathbf{t}})]$	<1 (<1)	<1