

Cross section variables	dof	χ^2			
		MADGRAPH +PYTHIA6	POWHEG +PYTHIA6	POWHEG +HERWIG6	MC@NLO +HERWIG6
$[p_T(\mathbf{t}), y(\mathbf{t})]$	15	96	58	14	46
$[y(\mathbf{t}), M(\mathbf{t}\bar{\mathbf{t}})]$	15	53	20	13	21
$[y(\mathbf{t}\bar{\mathbf{t}}), M(\mathbf{t}\bar{\mathbf{t}})]$	15	19	21	15	22
$[\Delta\eta(\mathbf{t}, \bar{\mathbf{t}}), M(\mathbf{t}\bar{\mathbf{t}})]$	11	163	33	20	39
$[p_T(\mathbf{t}\bar{\mathbf{t}}), M(\mathbf{t}\bar{\mathbf{t}})]$	15	31	83	30	33
$[\Delta\phi(\mathbf{t}, \bar{\mathbf{t}}), M(\mathbf{t}\bar{\mathbf{t}})]$	11	21	21	10	17