Model class	Production	Decay	Additional assumptions
Gluino-mediated and direct production of light-flavour squarks			
T1qqqq	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to \bar{q}q\tilde{\chi}_1^0$	—
T2qq_8fold	$pp \to \tilde{q}\bar{\tilde{q}}$	$\tilde{q} \to q\tilde{\chi}_1^0$	$m_{\tilde{q}} = m_{\tilde{q}_L} = m_{\tilde{q}_R}$, $\tilde{q} = \{\tilde{u}, \tilde{d}, \tilde{s}, \tilde{c}\}$
T2qq_1fold	$pp \to \tilde{q}\bar{\tilde{q}}$	$\tilde{q} \to q\tilde{\chi}_1^0$	$m_{\tilde{q}(\tilde{q}\neq\tilde{u}_L)} \gg m_{\tilde{u}_L}$
Gluino-mediated production of off-shell third-generation squarks			
T1bbbb	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to \bar{b}b\tilde{\chi}_1^0$	—
T1tttt	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to t\bar{t}^{(*)}\tilde{\chi}_1^0$	—
T1ttbb	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to \bar{t}b\tilde{\chi}^{\pm}{}_1 \to \bar{t}bW^*\tilde{\chi}_1^0$	$m_{\tilde{\chi}^{\pm}{}_1} - m_{\tilde{\chi}_1^0} = 5\,\text{GeV}$
Natural gluino-mediated production of on-shell top squarks			
T5tttt_DM175	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to t\bar{t}\tilde{\chi}_1^0$	$m_{\tilde{t}} - m_{\tilde{\chi}_1^0} = 175\,\text{GeV}$
T5ttcc	$pp \to \tilde{g}\tilde{g}$	$\tilde{g} \to t\bar{t}\tilde{\chi}_1^0$	$m_{\tilde{t}} - m_{\tilde{\chi}_1^0} = 20\,\text{GeV}$
Direct production of on-shell third-generation squarks			
T2bb	$pp \to \tilde{b}\bar{\tilde{b}}$	$\tilde{b} \to b\tilde{\chi}_1^0$	—
T2tb	$pp \to \tilde{t}\bar{\tilde{t}}$	$\tilde{t} \to t\tilde{\chi}_1^0$ or $b\tilde{\chi}^{\pm}{}_1 \to bW^*\tilde{\chi}_1^0$	50/50%, $m_{\tilde{\chi}^{\pm}{}_1} - m_{\tilde{\chi}_1^0} = 5\,\text{GeV}$
T2tt	$pp \to \tilde{t}\bar{\tilde{t}}$	$\tilde{t} \to t\tilde{\chi}_1^0$	—
T2cc	$pp \to \tilde{t}\bar{\tilde{t}}$	$\tilde{t} \to c\tilde{\chi}_1^0$	$10 < m_{\tilde{t}} - m_{\tilde{\chi}_1^0} < 80\,\text{GeV}$
T2tt_degen	$pp \to \tilde{t}\bar{\tilde{t}}$	$\tilde{t} \to bW^*\tilde{\chi}_1^0$	$10 < m_{\tilde{t}} - m_{\tilde{\chi}_1^0} < 80\,\text{GeV}$
T2tt_mixed	$pp \to \tilde{t}\bar{\tilde{t}}$	$\tilde{t} \to c\tilde{\chi}_1^0$ or $bW^*\tilde{\chi}_1^0$	50/50%, $10 < m_{\tilde{t}} - m_{\tilde{\chi}_1^0} < 80\,\text{GeV}$