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The figure shows two Feynman diagrams for the decay of a select quark ($\tilde{q}$) into a quark (q) and a gluino ($\tilde{g}$).

Diagram (a) shows a select quark ($\tilde{q}$) decaying into a quark (q) and a gluino ($\tilde{g}$) via a loop involving a top quark (t) and a top squark ($\tilde{t}$). The loop consists of a top quark line and a top squark line, with a gluon exchange between them.

Diagram (b) shows a select quark ($\tilde{q}$) decaying into a quark (q) and a gluino ($\tilde{g}$) via a loop involving a bottom quark (b) and a bottom squark ($\tilde{b}$). The loop consists of a bottom quark line and a bottom squark line, with a gluon exchange between them.

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