Abstract

This is collection of useful sample Feynman diagrams and pieces typeset in TikZ. See Volume I for background information.

1 Direct Detection Blob

\begin{center}
\begin{tikzpicture}
    \draw[thick] (0,0) circle (1cm);
    \draw[thick] (0,0) -- (90:1cm);
    \draw[thick] (0,0) -- (210:1cm);
    \draw[thick] (0,0) -- (-90:1cm);
    \draw[thick] (0,0) -- (330:1cm);
    \node at (0,0) {\chi};
    \node at (90:1cm) {\chi};
    \node at (210:1cm) {\chi};
    \node at (-90:1cm) {\chi};
    \node at (330:1cm) {\chi};
    \node at (0,-2) {SM};
    \node at (90,-2) {SM};
    \node at (210,-2) {SM};
    \node at (-90,-2) {SM};
    \node at (330,-2) {SM};
\end{tikzpicture}
\end{center}

2 't Hooft operator

\begin{center}
\begin{tikzpicture}
    \draw[thick] (0,0) circle (1cm);
    \draw[thick] (0,0) -- (90:1cm);
    \draw[thick] (0,0) -- (210:1cm);
    \draw[thick] (0,0) -- (-90:1cm);
    \draw[thick] (0,0) -- (330:1cm);
    \node at (0,0) {\chi};
    \node at (90:1cm) {\chi};
    \node at (210:1cm) {\chi};
    \node at (-90:1cm) {\chi};
    \node at (330:1cm) {\chi};
    \node at (0,-2) {SM};
    \node at (90,-2) {SM};
    \node at (210,-2) {SM};
    \node at (-90,-2) {SM};
    \node at (330,-2) {SM};
\end{tikzpicture}
\end{center}
3 Hadronic interactions
4 SUSY Cascade
5 Multilepton stops

\[ \tilde{t}_2 \rightarrow_{\tilde{G}} b \]

6 Strongly coupled blob

Uses \texttt{tikzlibrary\{calc\}}.

\url{http://tex.stackexchange.com/questions/48756/tikz-relative-coordinates}
7 Cat Diagram

From Georgi–Kaplan on vacuum misalignment.

Acknowledgements

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