Feynman Diagram Templates
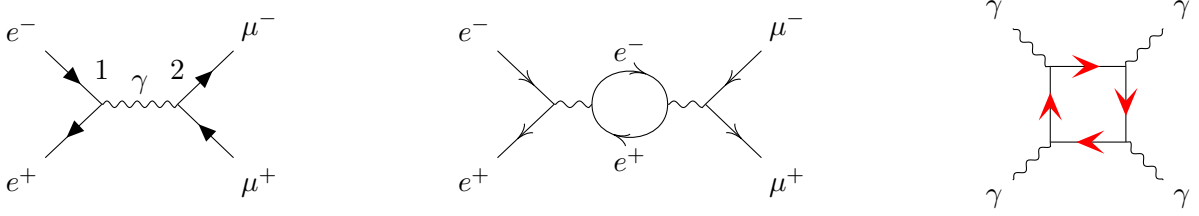
The following examples are made using the tikz-feynman package. The tex file has to be compiled with *lualatex*. More information is available on the tikz-feynman documentation at https://arxiv.org/pdf/1601.05437.pdf.
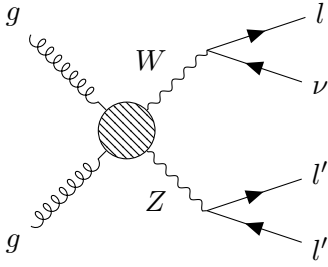
The source code is available on GitHub (https://github.com/prachurjyacern/UsefulTools).

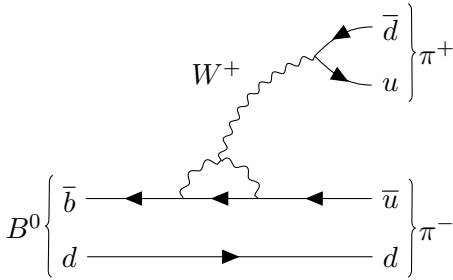**Example 1 :** Simple scattering diagrams with different arrow styles.

In all these diagrams, the vertex positions are defined using 'above left' and 'above right'. The following are the examples where some of the vertices are positioned manually using a co-ordinate system w.r.t another vertices. Also, I will stick to the first kind of arrow, because it looks better.

Example 2 : A diagram with a blob and several outgoing particles, with custom positioning of the anchor points.

Example 3 : A complicated diagram involving braces at several locations.
(The B^0 meson decay process as a demo.)

Example 4 : Use of colored lines and symbols.
(The VLL production process as a demo.)