Feynman diagrams

Lydia Beresford\textsuperscript{1,*} and Jesse Liu\textsuperscript{2,†}

\textsuperscript{1}Department of Physics, University of Oxford, Oxford OX1 3RH, UK
\textsuperscript{2}Department of Physics, University of Chicago, Chicago, IL 60637, USA

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Some Feynman diagrams made using \texttt{feynmp} for use.

I. INTRODUCTION

Precision measurements of electromagnetic couplings are fundamental tests of quantum electrodynamics (QED) and powerful probes of new physics beyond the Standard Model (BSM). The electron anomalous magnetic moment $a_e = \frac{1}{2}(g_e - 2)$ is among the most precisely measured observables in nature \cite{Odom, Hanneke}. The muon counterpart $a_\mu$ is measured to 1 part in $10^7$ \cite{Bennett} and reports a longstanding $3 - 4\sigma$ deviation from the SM prediction, which may be a harbinger of new physics.

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\begin{itemize}
  \item \textsuperscript{*} lydia.beresford@physics.ox.ac.uk
  \item \textsuperscript{†} jesse.liu@physics.ox.ac.uk
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\begin{thebibliography}{9}
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\begin{figure}[h]
\centering
\includegraphics[width=0.5\textwidth]{Feynman_diagrams.png}
\caption{Exclusive dilepton.}
\end{figure}