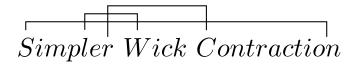
{simpler-wick}

Simpler Wick Contractions

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1 Introduction

This package provides simple way of inserting Wick contractions.

If you have any suggestions or have found any bugs, please feel free to create a new issue or pull request on the Github page: https://www.github.com/JP-Ellis/simpler-wick.

1.1 Installation

This package is *not* currently offered on CTAN as it is just a personal project of mine; however, if enough people find it useful, I will look into making it available through CTAN.

In order to use this as it is, simply download simpler-wick.sty and place it in the same directory as your TEX file and include it using the usual \usepackage{simpler-wick}. Alternatively, it is also possible to install simpler-wick system-wide by placing it inside TEX's search path (which will vary based on your operating system).

2 Usage

The package is imported by adding \usepackage{simpler-wick} to your preamble. In your math environment, you now use the \wick command in combination with \c:

```
\label{lem:condition} $$ \ \widetilde{sep=10pt}_{\c1\pi} \ c2\pi \ c1\pi \ \phi A \phi \ \end{equation} $$
```

If you wish to have multiple contractions, then follow \c with a number between 1 and 9; the first occurrence of \cN will start the Wick contraction, and the second occurrence of \cN will end it. After you have ended a contraction, \cN start another contraction.

```
\begin{equation}
  \wick{
     \c1 a \c2 b \c3 c \c1 a \c4 d \c1 e
     \c1 e \c1 a \c2 b \c3 c \c1 a
     }
\end{equation}
```

The package has two options: sep and offset. sep is the distance separating each level and offset is the base offset. By default, \sep=3pt and \offset=1em, but they can be changed globally by specifying them as package variables:

```
\usepackage[sep=5pt, offset=1.5em]{simpler-wick}
```

Or you can specify them as optional argument to \wick. This is particularly useful if you have some tall symbols within your Wick contraction: