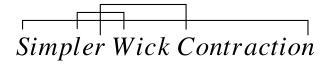
{Simpler-Wick}

Simpler Wick Contractions

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 $\c \c 10^c \$

Contents

I	Introduction										Ι								
	I.I	Installation										 	 		 			 	Ι
2	Usag	E																	I

I 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.

I.I INSTALLATION

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). This package is also available through CTAN.

2 USAGE

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

```
\begin{equation} \wick{\c\phi A \c\phi} \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
    \delta \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: