

The revquantum package

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1 Introduction

The revquantum package provides a number of useful hacks to solve common annoyances with the revtex4-1 package, and to define notation in common use within quantum information. In doing so, revquantum imports and configures a number of commonly-available and used packages, and where reasonable, provides fallbacks.

The revquantum package also warns when users try to load packages which are known to be incompatible with revtex4-1. In particular, loading the following packages will cause warnings:

- subcaption

Yes, this is a short list. It will get longer.

2 Usage

NB: revquantum must be loaded first unless nobibtexhacks is passed.

2.1 Package Options

The revquantum package provides several options to configure its behavior. These can be used in the traditional way, as optional arguments to \usepackage. For instance, this document was prepared using \usepackage [pretty] {revquantum}.

[final]

Removes support for TODO commands (see below), causing them to escalate from warnings to errors.

[pretty]

Uses the mathpazo package to typeset the document more nicely than the default for revtex4-1 drafts.

[uselistings]

Includes the listings package and configures it for literate and math-escape notation in Python, Mathematica and MATLAB.

[nobibtexhacks]

Prevents revquantum from patching the BIBTEXSsupport provided by revtex4-1 to include titles.

[strict]

Causes package incompatibility warnings to become errors.

2.2 New Commands

2.2.1 TODO Annotations

\todo {⟨annotation⟩}

Marks an incompletely completed task in a different color in the document, and raises a warning in the LaTeX log.

TODO

\todolist {⟨contents⟩}

Typesets *contents* as a TODO annotation, wrapped in an {enumerate} environment.

2.2.2 Mathematical Notation

This package also provides commands for notation common in quantum information.

\ii

\dd

These commands typeset the imaginary unit *i* and differential element *d*, respectively, in math roman.

\defeq

This command uses \mathrel{=} to properly format the colon-equals operator as a relation operator.

\expect

Typesets the expectation operator $\langle \rangle$.

\id

The current implementation of id is to call openone, provided by revtex4-1, and thus not available when used from documentation.

\llbracket

\rrbracket

Typesets the double-square brackets commonly used to denote stabilizer code properties, as in $\llbracket n, k, d \rrbracket$. These commands are provided by {stmaryrd}, and are given a reasonable fallback if that package is not available.

2.2.3 Affiliation Database

The revquantum package provides commands for quickly typesetting affiliations, with an eye towards reducing copy-paste errors when authors have a nontrivial set of shared affiliations.

\newaffil

{⟨shorthand⟩} {⟨description⟩}

The workhorse of the affiliation database is the `\newaffil` command, which defines a new command that expands to call the revtex4-1 `\affiliation` command. For instance, `\newaffil{UFooBar}{Bar, UFoo}` defines a new command `\affilUFooBar` that expands to `\affiliation{Bar, UFoo}`.

So far, the following affiliation commands are provided:

```
\affilTODO
\affileQuSUSyd
\affileQuSMacq
\affilUSydPhys
  \affiliQC
\affilUWPhys
\affilUWAMath
\affilUWChem
  \affilPI
\affilCIFAR
\affilCQuIC
\affilIBMTJW
```

Special, marks that an affiliation is not provided.
Centre for Engineered Quantum Systems, University of Sydney.
Centre for Engineered Quantum Systems, Macquarie University.
School of Physics, University of Sydney.
Institute for Quantum Computing, University of Waterloo.
Department of Physics, University of Waterloo.
Department of Applied Mathematics, University of Waterloo.
Department of Chemistry, University of Waterloo.
Perimeter Institute for Theoretical Physics.
Canadian Institute for Advanced Research.
Center for Quantum Information and Control, University of New Mexico.
IBM T. J. Watson Research Center.

2.2.4 Internal-Use Commands

```
\booloption
  \newnew
```

These commands are used internally by `revquantum` to define new boolean package options, and to declare new kinds of `\newcommand` commands. For example, `\newnew` is used to define `\newoperator`, which in turn defines new commands for named mathematical operators (e.g. `Tr`).

These commands configure hyperref's `autoref` command for use with revtex4-1, so that `autoref` correctly describes Section, Algorithm, and Lemma, and also follows the standard notation for equation references.

This boolean variable uses iftex to check if XeTeX is installed. If iftex is not available, then we assume plain LaTeX.

2.3 New Colors

The `revquantum` package also provides a color palette that is safe for colorblind readers and for printing, the [Color Universal Design](#) palette of Okabe and Ito.

cud-black	●
cud-orange	●
cud-sky-blue	●
cud-bluish-green	●
cud-yellow	●
cud-blue	●
cud-vermillion	●
cud-reddish-purple	●

These colors are defined as xcolor color names, such that they can be used in all packages which depend on xcolor. In particular, CUD colors can be directly used from tikz. To use with tikz, however, revquantum must be loaded *after* tikz.

3 Implementation

```

1
2 \usepackage{ifthen}
3
4
5 \newboolean{@xetex}
6 \setboolean{@xetex}{false}
7 \IfFileExists{iftex.sty}{
8     \wlog{[INFO] iftex loaded}
9     \usepackage{iftex}
10 }{
11     \newif\ifXeTeX
12     \XeTeXfalse
13 }
14 \ifXeTeX
15     \wlog{[INFO] Using XeTeX}
16     \setboolean{@xetex}{true}
17 \else
18     \setboolean{@xetex}{false}
19 \fi
20

```

3.2 Notation

```
\newnew
21 \newcommand{\newnew}[2]{
22     \expandafter\newcommand\csname new#1\endcsname[1]{
23         \expandafter\newcommand\csname ##1\endcsname{#2{##1}}
24     }
25 }

26 \newnew{operator}{\operatorname}
27 \newnew{rm}{\mathrm}
28
29 \newoperator{Tr}
30 \newoperator{Cov}
31 \newoperator{supp}
32 \newoperator{diag}
33 \newoperator{rank}
34
```

```

\ii
35 \newcommand{\ii}{\mathrm{i}} % Outside what newnew currently supports.

\dd
36 \newcommand{\dd}{\mathrm{d}} % Outside what newnew currently supports.

37
38 \newrm{e}
39 \newrm{TVD}
40 \newrm{T}
41

\defeq
42 \newcommand{\defeq}{\mathrel{:=}}

\expect
43 \newcommand{\expect}{\mathbb{E}}

\id
44 \newcommand{\id}{\openone}

45

```

We want to only conditionally use {stmaryrd} if it's available, and otherwise, hack up a few commands from that package.

```

46     \IfFileExists{stmaryrd.sty}{
47         \RequirePackage{stmaryrd}
48     }{
49         \PackageWarning{revquantum}{
50             The stmaryrd package is not available,
51             so some commands (e.g.: double-brackets) will look wrong.
52         }
53         \newcommand{\llbracket}{[\!\! [ \hspace{1.5pt}}
54         \newcommand{\rrbracket}{] \!\!] \hspace{1.5pt}}
55     }

```

3.3 Options Handling

We will need to define a few options to make the package nicer to use. We do so by making a new command, \booloption {⟨boolname⟩} {⟨optionname⟩} {⟨default⟩}.

```

\booloption
56 \newcommand{\booloption}[3]{
57     \newboolean{#1}
58     \setboolean{#1}{#3}
59     \ifthenelse{\equal{#3}{true}}{

```

Default is true, so we need a "no" option to turn off the new boolean.

```
60      \DeclareOption{no#2}{\setboolean{#1}{false}}
61  }{
```

Default is false, so we need an option to turn on the new boolean.

```
62      \DeclareOption{#2}{\setboolean{#1}{true}}
63  }
64 }
```

We then use this new command to define the options for `revquantum`, `final`, `pretty`, `uselistings`, `nobibtexhacks`, and `strict`.

```
65 \booloption{@final}{final}{false}
66 \booloption{@pretty}{pretty}{false}
67 \booloption{@uselistings}{uselistings}{false}
68 \booloption{@bibtexhacks}{bibtexhacks}{true}
69 \booloption{@strict}{strict}{false}
70
71 \ProcessOptions\relax
72
73
```

For the `strict` option, we do one last thing and define a new macro that either raises a warning or an option depending on whether `strict` has been set as an option.

```
\rq@quasiwarn
74 \ifthenelse{\boolean{@strict}}{
75   \newcommand{\rq@quasiwarn}{
76     \PackageError{revquantum}
77   }
78 }{
79   \newcommand{\rq@quasiwarn}{
80     \PackageWarning{revquantum}
81   }
82 }
```

3.4 Unforgivable BibTeX Hacks

These hacks include the title of each reference in the BibTeX output by redefining the part of `revtex4-1` on the fly which is responsible for writing out the bibdata. Note that these hacks *must* come before importing packages, or else `revtex4-1` will have already written out its control notes.

```
83
84 \ifthenelse{\boolean{@bibtexhacks}}{\def\@bibdataout@aps{%
85   \immediate\write\@bibdataout{%
86     @CONTROL{%
87       apsrev41Control,author="08",editor="1",pages="0",title="0",year="1",eprint="1"%
88     }%
89   }%
```

```

90 \if@filesw
91   \immediate\write\auxout{\string\citation{apsrev41Control}}%
92 \fi
93 }{}}
94

```

3.5 Imports

Here, we import a few other useful packages and configure them according to the options passed by the user. In handling the fonts specified by [pretty], we must be careful to do so in a way that is supported by XeTeX. Note that we only load color if neither tikz nor xcolor have already been imported, and if we are not using listings. In the latter case, we will load xcolor instead so that we can make listings play nicer with our own custom palette. Also of note is that we do not import hyperref yet, as it must go last to avoid duplicating reference names.

```

95
96 \RequirePackage{amsmath}
97 \RequirePackage{amsfonts}
98 \RequirePackage{amsthm}
99 \RequirePackage{amssymb}
100 \RequirePackage{amsbsy}
101 \@ifpackageloaded{tikz}{}{%
102   \@ifpackageloaded{xcolor}{}{%
103     \ifthenelse{\boolean{@uselisting}}{}{%
104       \RequirePackage[usenames,dvipsnames]{color}%
105     }%
106   }%
107   \AtBeginDocument{%
108     \@ifpackageloaded{tikz}{}{%
109       \rq@quasiwarn{tikz loaded, but after revquantum. This may not work.}%
110     }%
111   }%
112 }
113 \RequirePackage{braket}
114 \RequirePackage{graphicx}
115 \RequirePackage[english]{babel}
116 \ifthenelse{\boolean{@pretty}}{%
117   \ifthenelse{\boolean{@xetex}}{%
118     % http://tex.stackexchange.com/a/50593
119     \usepackage{fontspec}
120     \usepackage{mathpazo}
121     \setmainfont
122       [ BoldFont      = texgyrepagella-bold.otf ,
123         ItalicFont    = texgyrepagella-italic.otf ,
124         BoldItalicFont = texgyrepagella-bolditalic.otf ]
125       {texgyrepagella-regular.otf}%
126   }{%
127     \RequirePackage{mathpazo}

```

```

128      }
129 }{}
130 \ifthenelse{\boolean{@uselistings}}{
131     \RequirePackage{xcolor}
132     \RequirePackage{listings}
133     \RequirePackage{textcomp} % Make sure we have a ' for writing Mathematica.
134 }{}
135 \ifthenelse{\boolean{@bibtexhacks}}{
136     \RequirePackage{letltxmacro}
137     \RequirePackage{etoolbox}
138 }{}

```

3.5.1 Theorem Environments

```

139
140 \newtheorem{theorem}{Theorem}
141 \newtheorem{lemma}{Lemma}
142

```

3.5.2 algorithm and algpseudocode Setup

```

143
144 \RequirePackage{algorithm}
145 \RequirePackage{algpseudocode}
146     \renewcommand{\algorithmicrequire}{\textbf{Input:}}
147     \renewcommand{\algorithmicensure}{\textbf{Output:}}
148     \newcommand{\inlinecomment}[1]{\Comment {\footnotesize #1} \normalsize}
149     \newcommand{\linecomment}[1]{\State \triangleright {\footnotesize #1} \normalsize}
150

```

3.5.3 listings Setup

Here, we provide special support for scientific languages like Python and Mathematica, as well as for legacy environments. This support consists of configuring escapes, quoting, providing additional keywords, etc.

```

151
152 \ifthenelse{\boolean{@uselistings}}{
153     \definecolor{comment-color}{gray}{0.5}
154
155     \lstset{
156         basicstyle=\footnotesize,
157         commentstyle=\color{comment-color},
158         frame=lines,
159         gobble=4,
160         numbers=left,
161         numberstyle=\tiny, stepnumber=5,
162         numbersep=5pt,
163         keywordstyle=\color{cud-bluish-green!85!black}\bfseries,
164         keywordstyle={[2]\color{cud-sky-blue!75!black}},
165         emphstyle=\color{cud-vermillion}
166     }

```

```

167
168 \ifthenelse{\boolean{@xetex}}{
169     \RequirePackage{sourcecodepro}
170     \lstset{basicstyle=\footnotesize\sourcecodepro}
171 }{}
172
173 \lstdefinestyle{matlab}{
174     language=MATLAB,
175     mathescape=true
176 }
177
178 \lstdefinestyle{python}{
179     language=Python,
180     mathescape=true,
181     showstringspaces=false,
182     morekeywords={as,async,await}
183 }
184
185 \lstdefinestyle{mathematica}{
186     language=Mathematica,
187     upquote=true, % Needed to deal with the context symbol '.'
188     literate=
189         {->}{$\backslash$to$}1
190         {!=} {$\neq$}1
191         {\\"{}}{[DoubleStruckOne]}{$\{\backslash$id$\}$}1
192         {\\"{}}{[Sigma]}{$\{\backslash$\sigma$\}$}1
193         {(x)}{$\backslash$otimes$}1 % CG: I have the distinct impression this will break. Badly.
194     }
195 }{}
196

```

3.6 Import Warnings

The following command will cause a warning to be emitted if the package named by its argument is loaded. To make robust against the order in which packages are loaded, all such logic happens at `\begin{document}`. This code is adapted from the solution provided by Martin Scharrer at <http://tex.stackexchange.com/a/16200/615>.

```

\rq@warnpackage
197 \newcommand{\rq@warnpackage}[1]{
198     \AtBeginDocument{%
199         \@ifpackageloaded{#1}{%
200             \rq@quasiwarn{The #1 package is known to be incompatible with revtex4-1. You may en
201         }{}%
202     }%
203 }

```

With this command in place, we can now issue specific warnings for individual “bad” packages.

```
204 \rq@warnpackage{subcaption}
```

3.7 Slightly More Forgivable BibTeX Hacks

Next, we include a solution suggested by egreg for a rather annoying `{revtex4-1}` bug. In particular, we will set up `language={en}` as an alias for `language={english}`, so that `{revtex4-1}` will no longer raise `{babel}` errors for the undefined language. As with our unforgivable hacks, we will guard the forgivable hacks with the `[nobibtexhacks]` option.

```
\ORIGselectlanguage
205
206 \ifthenelse{\boolean{@bibtexhacks}}{
207     \LetLtxMacro{\ORIGselectlanguage}{\selectlanguage}
208     \DeclareRobustCommand{\selectlanguage}[1]{%
209         \@ifundefined{alias@\string#1}%
210             {\ORIGselectlanguage{#1}}%
211             {\begingroup\edef\x{\endgroup
212                 \noexpand\ORIGselectlanguage{\@nameuse{alias@#1}}}\x}%
213     }
214 }{%
215 }

\definelanguagealias
216
217 \newcommand{\definelanguagealias}[2]{%
218     \@namedef{alias@#1}{#2}%
219 }
220

221
222 \definelanguagealias{en}{english}
223 \definelanguagealias{EN}{english}
224 \definelanguagealias{English}{english}
225
```

We will also redefine `\doibase` to eat any newlines following it, and to prefer HTTPS to HTTP. This will fix a rather annoying bug where line breaks in the `*.bbl` source can introduce extraneous spaces into the target of each citation’s `\href`.

```
\doibase
226
227 \ifthenelse{\boolean{@bibtexhacks}}{
228     % Ensure that the \doibase command is defined, just in case.
229     \providecommand{\doibase}{}%
230     \renewcommand{\doibase}[1]{https://dx.doi.org/\ifdefempty{#1}{}{#1}}%
231 }{}
```

```

232
233 %      \end{macrocode}
234 % \end{macro}
235
236
237 % \subsection{TODO Support} %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
238
239 % These commands provide a way of marking items as needing to be done before
240 % the final version (denoted by the |final| package option).
241
242 % \begin{macro}{\todo}
243 %   \begin{macrocode}
244
245 \ifthenelse{\boolean{@final}}{
246     \newcommand{\todo}[1]{%
247         \PackageError{revquantum}{Unaddressed TODO}%
248         \rq@todo{#1}%
249     }
250 }{
251     \newcommand{\todo}[1]{%
252         \PackageWarning{revquantum}{Unaddressed TODO}%
253         \rq@todo{#1}%
254     }
255 }
256

```

We also define a `\citeneed` command for the special case of a missing citation. As per Steve Flammia's suggestion, this is formatted in analogy to the infamous Wikipedia annotation.

```

\citeneed
257 \ifthenelse{\boolean{@final}}{
258     \newcommand{\citeneed}{%
259         \PackageError{revquantum}{citation needed}%
260         \rq@todo{[citation needed]}%
261     }
262 }{
263     \newcommand{\citeneed}{%
264         \PackageWarning{revquantum}{citation needed}%
265         \rq@todo{[citation needed]}%
266     }
267 }

```

Both of these macros are based on the `\rq@todo` macro, which performs the formatting for TODOs.

```

\rq@todo
268 \newcommand{\rq@todo}[1]{%
269     {\color{magenta} #1}%
270 }

```

We also provide a few other special cases below.

```
\TODO  
271 \newcommand{\TODO}{\todo{TODO}}  
  
\todolist  
272 \newcommand{\todolist}[1]{\todo{  
273     \begin{itemize}  
274         #1  
275     \end{itemize}  
276 }}  
277
```

3.8 Color Universal Design

```
278 \definecolor{cud-black}      {RGB}{0,0,0}  
279 \definecolor{cud-orange}     {RGB}{230,159,0}  
280 \definecolor{cud-sky-blue}   {RGB}{86,180,233}  
281 \definecolor{cud-bluish-green} {RGB}{0,158,115}  
282 \definecolor{cud-yellow}     {RGB}{240,228,66}  
283 \definecolor{cud-blue}       {RGB}{0,114,178}  
284 \definecolor{cud-vermillion} {RGB}{213,94,0}  
285 \definecolor{cud-reddish-purple} {RGB}{204,121,167}
```

3.9 Affiliation Database

```
\newaffil  
286 \newcommand{\newaffil}[2]{  
287     \expandafter\newcommand\csname affil#1\endcsname{  
288         \affiliation{  
289             #2  
290         }  
291     }  
292 }
```

3.9.1 General Affiliations

```
293  
294 \newaffil{TODO}{\TODO}  
295
```

3.9.2 Australia

```
296  
297 \newaffil{EQuSUSyd}{  
298     Centre for Engineered Quantum Systems,  
299     University of Sydney,  
300     Sydney, NSW, Australia  
301 }  
302 \newaffil{EQuSMacq}{
```

```

303     Centre for Engineered Quantum Systems,
304     Macquarie University,
305     Sydney, NSW, Australia
306 }
307 \newaffil{USydPhys}{
308     School of Physics,
309     University of Sydney,
310     Sydney, NSW, Australia
311 }
312

```

3.9.3 Canada

```

313
314 \newaffil{IQC}{
315     Institute for Quantum Computing,
316     University of Waterloo,
317     Waterloo, ON, Canada
318 }
319 \newaffil{UWPhys}{
320     Department of Physics,
321     University of Waterloo,
322     Waterloo, ON, Canada
323 }
324 \newaffil{UWAMath}{
325     Department of Applied Mathematics,
326     University of Waterloo,
327     Waterloo, ON, Canada
328 }
329 \newaffil{UWChem}{
330     Department of Chemistry,
331     University of Waterloo,
332     Waterloo, ON, Canada
333 }
334 \newaffil{PI}{
335     Perimeter Institute for Theoretical Physics,
336     31 Caroline St. N,
337     Waterloo, Ontario, Canada N2L 2Y5
338 }
339 \newaffil{CIFAR}{
340     Canadian Institute for Advanced Research,
341     Toronto, ON, Canada
342 }
343

```

3.9.4 United States

```

344
345 \newaffil{CQuIC}{
346     Center for Quantum Information and Control,
347     University of New Mexico,
348     Albuquerque, NM 87131-0001, USA

```

```

349 }
350 \newaffil{IBMTJW}{
351     IBM T. J. Watson Research Center,
352     Yorktown Heights, New York 10598, USA
353 }
354
355

```

3.10 hyperref Setup

Finally, we load hyperref separately so that it can go last.

Get rid of hyperref's ugly boxes. From:<http://tex.stackexchange.com/a/51349>

```

356
357 \RequirePackage[breaklinks=true]{hyperref}
358
359 \hypersetup{
360     colorlinks = true, %Colours links instead of ugly boxes
361     urlcolor = blue, %Colour for external hyperlinks
362     linkcolor = blue, %Colour of internal links
363     citecolor = red %Colour of citations
364 }
365

```

3.10.1 autoref Setup

We must declare our autoref configuration at the beginning of the document to keep other packages from clobbering it.

```

\sectionautorefname
366 \AtBeginDocument{%
367     \def\sectionautorefname{Section}%
368 }

\algorithmautorefname
369 \AtBeginDocument{%
370     \def\algorithmautorefname{Algorithm}%
371 }

\equationautorefname See http://tex.stackexchange.com/a/66150.
372 \AtBeginDocument{%
373     \def\equationautorefname{\#1\null{(#1)\null}%
374 }

\lemmaautorefname
375 \AtBeginDocument{%
376     \newcommand{\lemmaautorefname}{Lemma}%
377 }

```

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