

Documentation of quantumarticle.cls

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1 Introduction

2 Package options

2.1 Document setup

2.1.1 Document format

The document class does not specify a default document format, an error is raised if none is specified.

Option	Description
<code>a4paper</code>	Sets the paper size to A4.
<code>a5paper</code>	Sets the paper size to A5.
<code>b5paper</code>	Sets the paper size to B5.
<code>letterpaper</code>	Sets the paper size to letter. TODO: official name
<code>legalpaper</code>	Sets the paper size to legal. TODO: official name
<code>executivepaper</code>	Sets the paper size to executive. TODO: official name

2.1.2 Orientation

The default orientation is portrait.

Option	Description
<code>landscape</code>	Sets the orientation of the document to landscape.

2.1.3 Fontsize

The default fontsize is 10pt.

Option	Description
<code>10pt</code>	Sets the normal fontsize to 10pt.
<code>11pt</code>	Sets the normal fontsize to 11pt.
<code>12pt</code>	Sets the normal fontsize to 12pt.

2.1.4 Sides

The default siding is oneside **TODO: better word than siding.**

Option	Description
<code>oneside</code>	Prepares the document as onesided.
<code>twoside</code>	Prepares the document as twosided.

2.1.5 Titlepage

By default, the document class is typset with no extra titlepage.

Option	Description
<code>titlepage</code>	Displays the title on a separate titlepage.
<code>notitlepage</code>	Displays the title on the same page as the text.

2.1.6 Draft

By default, the document class is typset as final.

Option	Description
<code>draft</code>	Marks the document as a draft.
<code>final</code>	Does not mark the document as a draft.

2.2 Style options

2.2.1 Equations

By default, equations are typset centered, with equation numbers on the right. **TODO: Clear fleqn behaviour**

Option	Description
<code>fleqn</code>	Display equations left aligned.
<code>leqno</code>	Display equation numbers to the left of the equation.

2.2.2 Bibliography

Option	Description
<code>openbib</code>	TODO: Find out what openbib does.

2.3 Pre-loaded packages

The document class only loads packages necessary for its operation, such as `geometry` or `hyperref`. For compatibility reasons, there are also commands that load certain widely used classes for the user.

Option	Description
<code>amsmaths</code>	Load the package <code>amsmaths</code> .
<code>noamsmaths</code>	Don't load the package <code>amsmaths</code> .
<code>amssymb</code>	Load the package <code>amssymb</code> .
<code>amssymbol</code>	— " —
<code>noamssymb</code>	Don't load the package <code>amssymb</code> .
<code>amsmath</code>	Load the package <code>amsmath</code> .
<code>noamsmath</code>	Don't load the package <code>amsmath</code> .

2.4 Publication

By default, all documents that are created with the `quantumarticle` documentclass are treated as possible submissions to Quantum.

Option	Description
<code>accepted=YYYY-MM-DD</code>	Adds the note 'Accepted in Quantum YYYY-MM-DD' to the document.
<code>unpublished</code>	Intended for works that are not published in Quantum. Disables all Quantum-related branding.
<code>noarxiv</code>	Intended for works that are not meant to be uploaded to the arXiv. Disables all arXiv-related sanity checks in the document. This option also sets <code>unpublished</code> .

2.5 Compatibility

The `quantumarticle` class aims to be maximally compatible with documents that were previously typeset with other document classes. For this reason, a lot of options are present for the sole purpose of compatibility but don't have an effect on how your document will be typeset. These include:

Option	Description
<code>checkin</code>	No effect.
<code>preprint</code>	— " —
<code>reprint</code>	— " —
<code>manuscript</code>	— " —
<code>noshowpacs</code>	— " —
<code>showpacs</code>	— " —
<code>showkeys</code>	— " —
<code>noshowkeys</code>	— " —
<code>balancelastpage</code>	— " —
<code>nobalancelastpage</code>	— " —
<code>nopreprintnumbers</code>	— " —
<code>preprintnumbers</code>	— " —
<code>hyperref</code>	— " —
<code>bibnotes</code>	— " —
<code>nobibnotes</code>	— " —
<code>footinbib</code>	— " —
<code>nofootinbib</code>	— " —
<code>altaffilletter</code>	— " —
<code>altaffilsymbol</code>	— " —

superbib	— " —
citeautoscript	— " —
longbibliography	— " —
nolongbibliography	— " —
eprint	— " —
noeprint	— " —
author-year	— " —
numerical	— " —
galley	— " —
raggedbottom	— " —
tightenlines	— " —
lengthcheck	— " —
reprint	— " —
eqsecnum	— " —
secnumarabic	— " —
floats	— " —
stfloats	— " —
endfloats	— " —
endfloats*	— " —
osa	— " —
osameet	— " —
opex	— " —
tops	— " —
josa	— " —
byrevtex	— " —
floatfix	— " —
nofloatfix	— " —
ltxgridinfo	— " —
outputdebug	— " —
raggedfooter	— " —
noraggedfooter	— " —
frontmatterverbose	— " —
linenumbers	— " —
nomerge	— " —
hypertext	— " —
frontmatterverbose	— " —
inactive	— " —
groupedaddress	— " —
unsortedaddress	— " —
runinaddress	— " —
superscriptaddress	— " —
aps	Triggers revtex compatibility mode
pra	— " —
prb	— " —
pre	— " —
prl	— " —
prx	— " —
aip	— " —

3 Further information