

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 |
|--------|-----------------------------------|
| 10pt | Sets the normal fontsize to 10pt. |
| 11pt | Sets the normal fontsize to 11pt. |
| 12pt | Sets the normal fontsize to 12pt. |

2.1.4 Sides

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

| Option | Description |
|---------|------------------------------------|
| oneside | Prepares the document as onesided. |
| twoside | Prepares the document as twosided. |

2.1.5 Titlepage

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

| Option | Description |
|-------------|--------------------------------------------------|
| titlepage | Displays the title on a separate titlepage. |
| notitlepage | Displays the title on the same page as the text. |

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 |
|--------|-------------------------------------------------------|
| fleqn | Display equations left aligned. |
| leqno | Display equation numbers to the left of the equation. |

2.2.2 Bibliography

| Option | Description |
|---------|------------------------------------------|
| openbib | 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 |
|------------|------------------------------------------|
| amsmaths | Load the package amsmaths . |
| noamsmaths | Don't load the package amsmaths . |
| amssymb | Load the package amssymb . |

| | |
|------------------------|-----------------------------------------------|
| <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 typset 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 typset. 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> | — ” — |
| <code>superbib</code> | — ” — |
| <code>citeautoscript</code> | — ” — |
| <code>longbibliography</code> | — ” — |
| <code>nolongbibliography</code> | — ” — |
| <code>eprint</code> | — ” — |
| <code>noeprint</code> | — ” — |
| <code>author-year</code> | — ” — |
| <code>numerical</code> | — ” — |
| <code>galley</code> | — ” — |
| <code>raggedbottom</code> | — ” — |

| | |
|--------------------|------------------------------------|
| 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