Template demonstrating the quantum bibstyle

David Wierichs[1] and Johannes Jakob Meyer[2,3]

[1]Institute for Theoretical Physics, University of Cologne, Germany

[2]Dahlem Center for Complex Quantum Systems, Freie Universität Berlin, 14195 Berlin, Germany

[3]QMATH, Department of Mathematical Sciences, University of Copenhagen, 2100 Copenhagen, Denmark

1 Reference class `article`

For the `article` class, the `title` is printed in *italics*. The `journal` is not reformatted, the `volume` printed in **bold font**. We also include the `pages` if present and the `year` in round brackets (). `doi` links are always included if given, the same holds for `eprint`. Only if neither of these two fields is given do we use the `url` to provide a hyperlink to the article. Code repositories are linked whenever provided via the `code` field, which is a non-standard field in quantum.bst.

Examples:

doi	eprint	url	code	result
✓	✓	✓/✗	✓	[1]
✓	✓	✓/✗	✗	[2]
✗	✓	✓/✗	✓	[3]
✗	✓	✓/✗	✗	[4]
✗	✗	✓/✗	✓	[5]
✗	✗	✓/✗	✗	[6]

Note that in particular citations via a URL alone are not recommended. If you want to cite a website or code repository, please use the respective reference classes `website` or `repository` (see below).

Article references

[1] Matthew McKague. "Self-testing in parallel with CHSH . Quantum **1**, 1 (2017). DOI: 10.22331/q-2017-04-25-1. eprint: arXiv:1609.09584. code: tony-blake/Hybrid-x509-s.

[2] Matthew McKague. "Self-testing in parallel with CHSH . Quantum **1**, 1 (2017). DOI: 10.22331/q-2017-04-25-1. eprint: arXiv:1609.09584.

[3] Matthew McKague. "Self-testing in parallel with CHSH . (2016). eprint: arXiv:1609.09584. code: tony-blake/Hybrid-x509-s.

[4] Matthew McKague. "Self-testing in parallel with CHSH . (2016). eprint: arXiv:1609.09584.

[5] Matthew McKague. "Self-testing in parallel with CHSH . (2016). URL: doi.org/10.22331/q-2017-04-25-1. code: tony-blake/Hybrid-x509-s.

[6] Matthew McKague. "Self-testing in parallel with CHSH . (2016). URL: doi.org/10.22331/q-2017-04-25-1.

2   Reference class `repository`

For the custom `repository` reference class, the `author` field is used if given but is not required (in contrast to the `article` class). If the repository address is given via `code` (strongly recommended), a properly formatted repository name is printed and links to the given address, including potentially version-, branch- or even commit-specific links. If no `code` entry is given, `url` is used as address instead, without any formatting of the printed text; Either `code` or `url` have to be provided. A title is not considered even if given. TODO: Consider a year in any way?

code	url	result
✓	✓/✗	[1]
✗	✓	[2]
✗	✗	invalid

Note that if you want both a `url` and a `code` link to be displayed, you can use the `website` reference class presented below for that.

Repository references

[1] Johannes Jakob Meyer. code: johannesjmeyer/rsmf.

[2] Johannes Jakob Meyer. URL: github.com/johannesjmeyer/rsmf.

3   Reference class `website`

For the new custom reference class `website`, we require a `title` and a `url` which are both printed always. `author` is optional and printed if given, the same holds for `code`, which is formatted as repository link like for `repository`. If you want to provide `code` but not `url`, the reference class `repository` (see above) is made for you.

author	code	result
✓	✓	[1]
✗	✓	[2]
✓	✗	[3]
✗	✗	[4]

Note that if you want both a `url` and a `code` link to be displayed, you can use the `website` reference class presented below for that.

Website references

[1] The Wiki-authors. "Wikipedia". URL: wikipedia.com. code: wikimedia/mediawiki.

[2] "Wikipedia". URL: wikipedia.com. code: wikimedia/mediawiki.

[3] The Wiki-authors. "Wikipedia". URL: wikipedia.com.

[4] "Wikipedia". URL: wikipedia.com.

4   Tests

Directly from the arxiv [1], arxiv via Zotero [2], some more testcases [3, 4, 5, 6, 7]

Test references

[1] Thomas Hubregtsen, David Wierichs, Elies Gil-Fuster, Peter-Jan H. S. Derks, Paul K. Faehrmann, and Johannes Jakob Meyer. "Training Quantum Embedding Kernels on Near-Term Quantum Computers" (2021) eprint: arXiv:2105.02276.

[2] Thomas Hubregtsen, David Wierichs, Elies Gil-Fuster, Peter-Jan H. S. Derks, Paul K. Faehrmann, and Johannes Jakob Meyer. "Training Quantum Embedding Kernels on Near-Term Quantum Computers". arXiv:2105.02276 [quant-ph] (2021). eprint: arXiv:2105.02276.

[3] A S Holevo and V Giovannetti. "Quantum channels and their entropic characteristics". Reports on Progress in Physics **75**, 046001 (2012). DOI: 10.1088/0034-4885/75/4/046001.

[4] A S Holevo and V Giovannetti. "Quantum channels and their entropic characteristics". Reports on Progress in Physics **75**, 046001 (2012). DOI: 10.1088/0034-4885/75/4/046001.

[5] Chris Akers, Netta Engelhardt, and Daniel Harlow. "Simple holographic models of black hole evaporation". JOURNAL OF HIGH ENERGY PHYSICS (2020). DOI: 10.1007/JHEP08(2020)032. Place: ONE NEW YORK PLAZA, SUITE 4600, NEW YORK, NY, UNITED STATES Publisher: SPRINGER Type: Article.

[6] Vishal Katariya and Mark M. Wilde. "Geometric distinguishability measures limit quantum channel estimation and discrimination". Quantum Inf Process **20**, 78 (2021). DOI: 10.1007/s11128-021-02992-7.

[7] Vishal Katariya and Mark M Wilde. "Geometric distinguishability measures limit quantum channel estimation and discrimination". Quantum Information Processing **20**, 1–170 (2021).