

# Template demonstrating the quantum bibstyle

David Wierichs

Institute for Theoretical Physics, University of Cologne, Germany

## 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](https://doi.org/10.22331/q-2017-04-25-1). eprint: [arXiv:1609.09584](https://arxiv.org/abs/1609.09584). code: [tony-blake/Hybrid-x509-s](https://github.com/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](https://doi.org/10.22331/q-2017-04-25-1). eprint: [arXiv:1609.09584](https://arxiv.org/abs/1609.09584).
- [3] Matthew McKague. *Self-testing in parallel with CHSH*. eprint: [arXiv:1609.09584](https://arxiv.org/abs/1609.09584). code: [tony-blake/Hybrid-x509-s](https://github.com/tony-blake/Hybrid-x509-s).
- [4] Matthew McKague. *Self-testing in parallel with CHSH*. eprint: [arXiv:1609.09584](https://arxiv.org/abs/1609.09584). code: [tony-blake/Hybrid-x509-s](https://github.com/tony-blake/Hybrid-x509-s).
- [5] Matthew McKague. *Self-testing in parallel with CHSH*. URL: [doi.org/10.22331/q-2017-04-25-1](https://doi.org/10.22331/q-2017-04-25-1). code: [tony-blake/Hybrid-x509-s](https://github.com/tony-blake/Hybrid-x509-s).
- [6] Matthew McKague. *Self-testing in parallel with CHSH*. URL: [doi.org/10.22331/q-2017-04-25-1](https://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?

<b>code</b>	<b>url</b>	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.

<b>author</b>	<b>code</b>	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*. eprint: [arXiv:2105.02276](#).
- [3] A S Holevo and V Giovannetti. *Quantum channels and their entropic characteristics*. 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**(4), 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*. 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*. 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**(2), 1–170 (2021).