

### 3A. Co-authorship statement

All papers/manuscripts with multiple authors which is part of a PhD thesis should contain a co-author statement, stating the PhD student's contribution to the paper



#### 1. PhD student

Name: Johannes Agerskov

UCPH user id: ptz888  
Or date of birth

Department: Department of Mathematical Sciences

#### 2. Paper/Manuscript

*This co-authorship declaration applies to the following:*

Title: Ground state energy of dilute Bose gases in 1D

Authors(s): Johannes Agerskov, Robin Reuvers, Jan Philip Solovej

Journal: ArXiv

Vol/page: arXiv:2203.17183

DOI: <https://doi.org/10.48550/arXiv.2203.17183>

#### 3. Contributions to the paper/manuscript made by the PhD student

What was the role of the PhD student in designing the study?

The study was designed by all three co-authors equally

How did the PhD student participate in data collection and/or development of theory?

The PhD student was a driving force in developing the theory and made several of the fundamental observations. There was no data collection involved. Note the author ordering is alphabetic.

Which part of the manuscript did the PhD student write or contribute to?

The PhD student wrote everything else except the introduction, which was a common effort

Did the PhD student read and comment on the final manuscript?

Yes

#### 4. Material in the paper from another degree / thesis

*Data collected and preliminary work carried out as part of another degree/thesis may be part of the PhD thesis if further research, analysis and writing are carried out as part of the PhD study.*

Does the paper contain data material, which has also formed part of a previous degree / thesis (e.g. your master's degree)?

☐ Yes

Please indicate which degree/thesis:

Please indicate which specific part(-s) of the paper that has been produced as part of the PhD study:

#### Signatures

*The co-author statement should always be signed by the first author, the corresponding -/senior author and the PhD student. If there are two or three authors the statement must always be signed by them all*

Date: 21-03-2023 Name: Johannes Agerskov

Signature:

*Johannes Agerskov*

21/03/2023 12:19:55

ROBIN JOHANNES PETRUS REUVERS

Date: 21-03-2023 Name: Robin Reuvers

Signature:

*[Signature]*

Date: 21-03-2023 Name: Jan Philip Solovej

Signature:

*Jan Philip Solovej* *RP*

The co-authorship statement must be handed in to the PhD secretary at your department at the same time as the PhD thesis, but **not included** in the PhD thesis. You can find your PhD secretary here: [www.science.ku.dk/phd/](http://www.science.ku.dk/phd/)