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| Candidate: | Yierpan Aierken |
| Thesis title: | First-principles studies of novel two-dimensional materials and their physical properties |
| Date pre-defense: | November 6, 2017 |
| Date public defense: | November 27, 2017 |

Pre-defense evaluation (check the boxes if the criterion has been met, and indicate for each criterion one of the options given in *italic* when applicable)

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|-------------------------------------|---|
| <input checked="" type="checkbox"/> | The candidate has presented a well-structured, clear and scientifically sound presentation. |
| <input checked="" type="checkbox"/> | The candidate has answered the jury's questions <i>adequately/well/very well</i> |
| <input checked="" type="checkbox"/> | The candidate has demonstrated an <i>insufficient/adequate/good/very good</i> mastering of the research topics presented in the thesis. |
| <input checked="" type="checkbox"/> | The candidate has demonstrated to have mastered the necessary abilities to function as an independent researcher. |
| <input checked="" type="checkbox"/> | The thesis manuscript is well written, well-structured and scientifically sound. |
| <input checked="" type="checkbox"/> | The candidate's work has resulted in <i>significant/exceptional</i> scientific progress. |
| <input checked="" type="checkbox"/> | The research has resulted in <i>one/several/many</i> publications accepted in prominent scientific journals and/or conference proceedings |
| <input checked="" type="checkbox"/> | The research has resulted in <i>one/several/many</i> publications submitted to prominent scientific journals and/or conference proceedings (apart from accepted publications mentioned above) |

Conclusion (check one of the boxes and indicate one of the options given in *italic* when applicable)

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| <input checked="" type="checkbox"/> | The candidate has fulfilled <i>enough/all</i> of the above criteria and the jury therefore decides that the work is ready to be admitted to the public defense without further essential revisions. |
| <input type="checkbox"/> | The candidate has fulfilled <i>enough/all</i> of the above criteria and the jury therefore decides that the work is ready to be admitted to the public defense, but suggests minor revisions of the thesis manuscript as specified in addendum to this document. |
| <input type="checkbox"/> | The candidate has fulfilled a number of the above criteria, but the jury decides that the thesis is accepted under the provision of a number of major revisions. Specific shortcomings and mandatory revisions are specified in addendum to this document. The entire jury has to agree on the revised manuscript before the thesis is admitted to the public defense. |
| <input type="checkbox"/> | The jury has decided that the current work does not meet the criteria of a doctoral thesis, and therefore does not admit the candidate to the public defense. An explicit motivation for this decision is given in addendum to this document. After a thorough revision, the thesis can be submitted again to the pre-defense. |

Chair (name, signature)

D. Lamoen

Secretary (name, signature)

S. Van Aert

Jury members (names, signatures)

D. Cakir

M. Houssa

O. Leenaerts

F. Peeters