

MINUTES OF THE EVALUATION COMMISSION MEETING

appointed to carry out the mid-term evaluation of a PhD student

1. Full name of a PhD student:

Mateusz Pulikowski

2. Date of commencement of education:

academic year 2020/2021

3. ORCID:

0000-0001-5202-8097

4. Scientific discipline:

mathematics

5. The planned title of the doctoral dissertation:

Grupa Witta ordynków (Witt group of orders)

6. Name and last name of a PhD supervisor(s), degree or scientific title:

dr hab. Paweł Gładki, prof. UŚ

7. Name and last name of the auxiliary supervisor (if designated):

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8. Members of the mid-term Evaluation Committee:

1) chair of the Committee (name and last name, degree or scientific title, position):

dr hab. Przemysław Koprowski prof. UŚ, University of Silesia in Katowice

2) member of the Committee (name and last name, degree or scientific title, position):

prof. dr hab. Franz-Viktor Kuhlmann, University of Szczecin

3) member of the Committee (name and last name, degree or scientific title, position):

dr hab. Tomasz Połacik prof. UŚ, University of Silesia in Katowice
(absent from the committee meeting due to a medical leave)

9. Date of presentation at the meeting of the Scientific Council of the Institute:

Dec. 13th, 2022



10. Date of mid-term evaluation of a PhD student:

Dec. 13th, 2022

11. Questions posed to the PhD student (both at the second stage, at the Scientific Council meeting of the Institute, and at the third stage):

1. Point out the actual scientific achievements obtained during the evaluation period.
2. What are the reasons for studying the order $\mathbb{Z}[\sqrt[3]{6}]$? What is so special about the constant 6?
3. What were your motivations for participating a category theory workshop? How does this theory relate to your research interests?
4. Have you considered studying orders arising in geometrical, rather than number-theoretic, context?
5. What is the connection between your results presented at the Scientific Council meeting, and expressed in the language of classical Witt rings, with the Balmer-Gille theory of Witt groups of triangulated categories? How do these two points of view relate?

12. The Evaluation Committee, acting on the basis of Article 19 of the Resolution No. 75 of the Senate of the University of Silesia in Katowice of January 26, 2021 on defining the Regulations of the Doctoral School at the University of Silesia in Katowice has conducted a mid-term evaluation of

Mateusz Pulikowski

After reviewing the Individual Research Plan, the Report on the execution of the educational program and the execution of the Individual Research Plan, the supervisor's opinion, hearing the presentation at the meeting of the Scientific Council of the Institute, having discussion with the PhD student and discussion with the supervisor¹, the Committee issues the following evaluation:

positive

RESULT OF MID-TERM EVALUATION (positive/negative):

13. Vote results:

Number of votes for positive evaluation: 2

Number of votes for negative evaluation: 0

Number of votes abstaining: 0

14. Remarks:

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1 Cross out if the discussion has not taken place.

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15. Detailed justification of the Commission on the result of the mid-term evaluation (justify the result in detail; under the Act of 20 July 2018. Law on Higher Education and Science [Ustawa z dnia 20 lipca 2018 r. Prawo o szkolnictwie wyższym i nauce], the evaluation result with justification is public and will be published):

In the committee's opinion, Mr. Matusz Pulikowski made some progress during the evaluation period. To some extent, he progressed toward the goals presented in his research plan. The main objection raised by the committee's members is that the candidate was unable to discuss his own results in-depth or their relation to the stated research goals. During the discussion at the meeting of the Scientific Council of the Institute of Mathematics, the candidate was not able to give any motivation for studying the particular order that appeared in the candidate's presentation. Far more should be expected from a graduate student with two years of seniority.

The committee fully recognizes the fact that genuine research activity is a highly non-linear process. One cannot expect that after half of the time, one will achieve half of the goals. This particularly applies to mathematics, where there is a vast (and constantly expanding) gap between what students know after graduating from a master's program and what is required for doing scientific research. Hence, in mathematics, actual scientific results are often obtained only during the third or fourth year of Ph.D. studies. Therefore, while the present research results of Mateusz Pulikowski are not yet very impressive, the committee recognizes the fact that they are positioned within the area of the research project and may eventually lead to some more in-depth results if the candidate is given a chance to continue his research. In the committee's opinion, Mr. Matusz Pulikowski can potentially achieve the planned research goals within the expected time frame and consequently obtain the doctoral degree. For this reason, the committee issues a positive evaluation of the candidate's progress.

Finally, the committee wants to stress that, again, most of the materials for the evaluation were prepared only in Polish, which is not a language spoken by all the committee members. In case when not all the members are Polish speakers, the materials should be prepared in English to respect the needs of everybody.

16. Signatures of the members of the Evaluation Committee:

1) (name and last name of the chair, signature)

Przemysław Koprucki

2) (name and last name of the member, signature)

Franz-V. Kuhlmann

[Handwritten signature of Franz-V. Kuhlmann]

3) (name and last name of the member, signature)

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this is legal evidence of all created e-signatures and e-seals

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