

Approved at the meeting of the Academic Council
Doctoral School of Mathematics

Agreed
Academic Director of the Doctoral School of
Mathematics_Mikhail Ignatev

**The program of the portfolio composition
of the main educational program of higher education – programs for the training of scientific and
scientific-pedagogical personnel at the Doctoral programme
Mathematics and mechanics**

Scientific specialties:

- 1.1.1. Real, complex and functional analysis
- 1.1.2 Differential Equations and Mathematical Physics
- 1.1.3 Geometrics and Topology
- 1.1.4 Probability Theory and Mathematical Statistics
- 1.1.5 Mathematical Logic, Algebra, Number Theory and Discrete Mathematics

1. The portfolio consideration

The main purpose of reviewing the portfolio of the main educational program of higher education – programs for the training of scientific and scientific-pedagogical personnel at the Doctoral School of Mathematics sciences programme "Mathematics and mechanics" in scientific specialties 1.1.1. Real, complex and functional analysis, 1.1.2 Differential Equations and Mathematical Physics, 1.1.3 Geometrics and Topology, 1.1.4 Probability Theory and Mathematical Statistics, 1.1.5 Mathematical Logic, Algebra, Number Theory and Discrete Mathematics is to identify the applicant's readiness to prepare and defend dissertation research.

The consideration for the portfolio of the main educational program of higher education – programs for the training of scientific and scientific-pedagogical personnel at the Doctoral School of Mathematics sciences programme "Mathematics and mechanics" in scientific specialties 1.1.1. Real, complex and functional analysis, 1.1.2 Differential Equations and Mathematical Physics, 1.1.3 Geometrics and Topology, 1.1.4 Probability Theory and Mathematical Statistics, 1.1.5 Mathematical Logic, Algebra, Number Theory and Discrete Mathematics consists of reviewing documents confirming the results of the applicant's scientific, academic and/or professional activities.

2. Portfolio structure

To participate in the individual achievement competition (portfolio) The applicant can provide the following documents in Russian or English:

1. **CV**, which includes a list of publications, information about participation in conferences, schools, research projects, research grants, work experience, knowledge of languages and software, etc.
2. **Scientific publications** on mathematics, preprints.
3. Information about participation in Russian and international conferences (with a report) on mathematics, indicating the name, venue of the conference, topic of the report and a link to the announcement of the report or a link to the conference program.
4. At least **two letters of recommendation**.
5. **Documents confirming other achievements**, such as winning student Olympiads, student paper competitions, receiving individual academic scholarships and study grants, if any.

3. Components included in the portfolio documents

The selection procedures for applicants to the quota places are held in the portfolio consideration format

The portfolio is not evaluated according to criteria and scores.

Components
Written papers
Publications on mathematics in journals from the Higher Attestation Commission list or preprints in English in the repository arxiv.org
Publications on mathematics indexed by the Math Reviews/MathSciNet database
Publications on mathematics Q1-Q2 on Scopus or from the list of HSE journals (check https://scientometrics.hse.ru/en/lists/)
CV
Presentations at student conferences
Presentations at regional conferences
Presentations at international conferences
Participation in student or school Olympiads
Participation in research projects

Working as a teaching assistant
Advanced math courses (Master's degree level and above)
Work experience with LaTeX
Work experience with computer algebra systems
Knowledge of programming languages (C++, Python, ...)
Recommendations (at least 2)
The recommendation contains a description of the applicant's scientific results.
The recommender has a permanent position at the university with a high subject rating in mathematics
The recommender considers the applicant to be the best in a certain group.
The recommender highly appreciates the applicant's motivation
The recommender highly appreciates the applicant's communication skills, ability to work, and other qualities.
The recommender agrees to be the applicant's supervisor, and the recommendation contains a description of the applicant's existing work on the topic of the proposed dissertation.