**Announcement of the project competition**

**1. Research topic**

Development and justification of algorithms for solving variational data assimilation problems in mathematical physics.

**2. Requirements to the content of the application for participation in the competition (hereinafter application)**

The application must contain: plan of scientific research on the declared topic; research team members; the expected results of scientific work; planned business trips for the project purpose.

The maximum amount of financial support for the project: 384 thousand rubles.

Project execution time: from the moment of signing the contract till February 28, 2020.

**3. Submission of the application**

The application is submitted in Russian and English in electronic form by e-mail director@mail.inm.ras.ru or to the address 119333, Moscow, Gubkina str. 8, office. 710 not later than the deadline for applications.

**4. Qualification requirements for applicants for participation in the competition**

Work experience on the topic of scientific research;

Possession of information about the current state of research on the subject of the project;

Scientific publications over the last 5 years: monographs, publications in leading peer-reviewed scientific publications, publications indexed in citation systems Web of Science, Scopus, RSCI;

Participation in national and international scientific events;

The experience of management and implementation of scientific projects (previously received grants, completed research projects) of the head (members of the research team) over the last 5 years.

**5. The list of essential violations of requirements of competitive documentation entailing non-admission of the application to competition**

Not allowed to competition:

* applications are documented and filed in the Department of the Center with violations of requirements to contents and registration of applications for participation in the contest, as set out in the announcement of competition and the competitive documentation or qualification requirements for candidates to participate in the contest, if such requirements provided in the competition documentation;
* applications submitted after the deadline for submission;
* applications containing contradictory information in terms of confirmation by applicants for participation in the competition of compliance with the qualification requirements.

**6. Criteria for competitive selection of projects**

*The criteria for the competitive selection of the project are listed in the Appendix*

**7. Information about the timing of summing up the competition**

Application deadline: 17:00 November 30, 2019 (Moscow time)

Summarizing the results of the competition: no later than December 10, 2019

**8. Other conditions**

Share of young researchers (under 39 years): at least 44.2%.

Appendix

Criteria for competitive selection of scientific projects

submitted for the competition on the program of creation and development of

“Moscow center for fundamental and applied mathematics” for 2019-2024

The criteria for the examination of scientific projects (hereinafter ‒ projects) in the implementation of their competitive selection by the world-class Scientific center "Moscow center for fundamental and applied mathematics" (hereinafter-the Center) are as follows.

1. Compliance of the project subject with the scientific directions of the Center creation and development Program.

*The conformity of the subject of the submitted project to the scientific directions of the program of creation and development of the Center is estimated.*

2. Professional level of the project Manager and research team.

*The professional and creative level of the project Manager, his research team, their potential in terms of the possibility of successful implementation of the project and the success story are evaluated.*

*To assess the professional level of the head (research team) can be used:*

* *information about the head (members of the research team) of the project (availability of academic degrees, titles, membership in leading scientific communities, the presence of awards and prizes for scientific activities, participation in the editorial boards of the leading peer-reviewed scientific publications);*
* *the list of the main publications of the head and key members of the research team for the last 5 years (monographs, publications in leading peer-reviewed scientific publications, publications indexed in citation systems Web of Science, Scopus, RSCI);*
* *information about the experience of management and implementation of research projects (previously received grants, completed research projects) at the head (members of the research team) over the last 5 years;*

*- information on the participation of the project head and main researchers in educational activities (management of graduate students, development and reading of new educational courses in Russian and foreign universities);*

*‒ other additional information, which, in the opinion of the project head, may be useful for deciding whether to finance the project.*

* 1. Scientific validity of the project.

*The scientific content of the project, including scientific relevance, topicality of the project, the enormity of the tasks, the degree of scientific novelty of the research, the complexity of the study, information about the current state of research on the subject of the project, proposed methods and approaches, likelihood of successful completion of the project and obtaining planned results, the availability of material and technical base, use during implementation of the project of collective use centers and unique stands and installations, information and other resources for the successful implementation of the project are estimated.*

* 1. The significance of the results of the project.

*The scientific and public significance of the expected results of the project is assessed, including: compliance of the expected results with the world level of research, the possibility of practical use of the expected results of the project in the economy and social sphere, publications and other ways of publishing the results of the project (including monographs, publications in leading peer-reviewed scientific journals, publications indexed in the citation systems Web of Science, Scopus, RSCI), obligations to attract young scientists and specialists, postgraduates and students to work on the project.*

* 1. Quality of project planning.

*The following criteria of quality of project management, including the assessment of the ability of the head to manage the project, the adequacy of recruitment of specialists in the research team, adequacy of the resources used for project implementation, compliance and completeness of work plan the tasks of the project, the validity of proposals for the acquisition of equipment, as well as about the planned business trips for the project, the adequacy and justification of the requested funding of the project are evaluated.*