

Flexibility and computational methods

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Research Unit of HSE University
Laboratory on Algebraic Transformation Groups

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project leader

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project leader

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Vietnam and Russia
make science together



Ivan Arzhantsev:

How did the project start?

It was the result of an official visit of the HSE delegation to Vietnam. Vice-Rector Victoria Panova signed a cooperation agreement between the Hanoi Institute of Mathematics and HSE.

What is the project aimed at?

One of the main goals is to obtain new knowledge about algebraic varieties, their geometric properties and symmetries. The methods developed in recent years should lead to fundamentally new theoretical results. Understanding the structure of combinatorial objects (cones and fans of cone, lattices and root systems) is a key step in proving many important results, so numerical experiments can be very useful. We also plan to create a database, aggregating properties of certain varieties, and to develop several software packages and frameworks. We hope for productive collaboration as Vietnamese colleagues and our team complement each other well experience wise.

International Academic Cooperation, HSE University

Joint Basic Research Projects



**SINCE 2023, A COMPETITION FOR JOINT
FUNDAMENTAL RESEARCH PROJECTS HAS
BEEN INITIATED.**

The Competition shall be held among academic (research) structural subdivisions of HSE University planning to implement joint basic research projects with academic units of international universities and research centres engaged in research topics similar to the academic (research) subdivisions of HSE University.

Our goal:

- development of international scientific collaborations
- expansion of the research agenda and multidisciplinary
- involvement of students in joint basic research projects to improve their culture of academic research

