



Discrete Geometry
The Fifth German-Russian Week of the Young Researcher

National Research University
Moscow Institute of Physics and Technology (MIPT)
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In September 2015 the Fifth German-Russian Week of the Young Researcher will be held by the German Academic Exchange Service (DAAD) and the German Research Foundation (DFG) under the umbrella of the German House of Research and Innovation (DWIH Moscow). The main goal of these weeks is to encourage wider networking and stronger partnerships among early career researchers. Doctoral and postdoctoral researchers as well as professors are invited to come together and present their research projects in the field of “Discrete Geometry” at Moscow Institute of Physics and Technology (MIPT). The Week is organized in cooperation with the Russian Foundation for Basic Research (RFBR) and with the support of the Embassy of the Federal Republic of Germany in Moscow.

Discrete geometry is a classical area of mathematics and, at the same time, is an active modern field with numerous applications in computational problems and visualization. In the 20th century discrete geometry attracted many researchers because of the huge development of computing machinery and the demand to solve practical problems of search and optimization. The conference is intended to bring together some recognized experts in discrete geometry and many young and promising mathematicians. The particular topics of interest are: arrangements of points, lines, and higher dimensional objects; fair partitions of point sets and measures; distance graphs, diameter graphs, and bodies of constant width; topological methods in all above and combinatorics of simplicial or polyhedral complexes. We expect lectures from renowned mathematicians such as Günter Ziegler, János Pach, Luis Montejano and Włodzimierz Kuperberg.

German-Russian Weeks of the Young Researcher take place in Russia once a year in order to discuss current topics of mutual interest. After focusing on „Man and Energy“ in Kazan (2011), „Health and Society“ in Yekaterinburg (2012), „Aviation and Space“ in Novosibirsk (2013) and „Global History“ in St. Petersburg (2014), in 2015 we discuss mathematical matters at the MIPT. The Moscow Institute of Physics and Technology was set up in 1946 with the efforts of prominent scholars of the Soviet Academy of Sciences, including the Nobel Prize winners Pyotr Kapitsa, Nikolay Semyonov and Lev Landau. MIPT was to become an elite school for natural sciences and has used a unique system for training young specialists from the very beginning, known as the *Phystech System*. Amongst MIPT graduates are the Nobel Prize winners of 2010 in Physics, Andrey Geim and Konstantin Novoselov. Today MIPT with its 6.000 students ranks among the top universities in the areas of physics, mathematics, and informatics. In 2009 MIPT was granted the status of a National Research University by the Russian government and therefore belongs to the prestigious group of “Russia’s Leading Universities”.

For more information please apply to the Homepage of the German House of Research and Innovation (DWIH Moskau) www.dwih.ru and to the organizers of the conference <http://rkarasev.ru/en/note/36>:

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