

September – December 2013



The Apostles Peter and Paul
Domenikos Theotokopoulos (El Greco) 1587-92
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St. Petersburg, Russia

Trimester Program

Universality and Homogeneity

Organizers: Alexander Kechris, Katrin Tent, Anatoly Vershik

The goal of the program is to study and link universality phenomena in different areas of pure mathematics. These areas include model theory, combinatorics, descriptive set theory, group theory, dynamical systems, especially ergodic theory and topological dynamics, random matrices and representation theory. In this way we hope to promote novel interactions between these different areas.

Universality is a pervasive notion in mathematics, and is suggestive of useful analogies between different areas. Examples are Fraïssé's theory in logic, universal graphs in combinatorics, the universal Urysohn space in topology, universality in algebraic geometry, and so on. We consider it important to initiate a discussion of universality as a global phenomenon in mathematics, and bring together some of the main contributors.

Those planning to attend include:

Itai Ben Yaacov	Claude Laflamme	Fedor Petrov
Manuel Bodirsky	Dugald Macpherson	Michael Pinsker
Emmanuel Breuillard	Julien Melleray	Jan Reimann
Gregory Cherlin	Benjamin Miller	Matatyahu Rubin
Manfred Droste	Nikolai Mnev	Slawomir Solecki
Cameron Freer	Jaroslav Nesetril	Stevo Todorcevic
Eli Glasner	Peter Neumann	Todor Tsankov
Yonatan Gutman	Lionel Nguyen Van The	Alex Usvyatsov
Ward Henson	Andre Nies	Ravi Vakil
Wieslaw Kubis	Vladimir Pestov	Boris Zilber