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Russian Winter

School in Geometry of Partial Differential Equations

Kostroma, Russia

January 25 - February 5, 2006

The aim of the School is to introduce undergraduate and Ph. D. students in Mathematics and Physics as well as post-doctoral researchers in a recently emerged area of Mathematics and Theoretical Physics:

Secondary Calculus.

A diffiety is a new geometrical object that properly formalizes the concept of the solution space of a given system of (nonlinear) PDEs, much as an algebraic variety does with respect to solutions of a given system of algebraic equations.

Secondary Calculus is a natural diffiety analogue of the standard Calculus on smooth manifolds, and as such leads to a very rich general theory of nonlinear PDEs. Moreover, it appears to be the unique natural language for quantum physics, just as the standard Calculus is the natural language for classical physics.

Scientific director: A. M. Vinogradov.

In Cooperation with: the "Bol'shaya peremena" program of Michael Batin (Kostroma, Russia), Diffiety Institute (Russia), Istituto Italiano per gli Studi Filosofici (Italy).

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Further information and how to apply can be found on the Diffiety Institute sites: http://diffiety.ac.ru, http://diffiety.org.