代数セミナー

Speaker :

Prof. Viacheslav V. Nikulin
(Liverpool University and Steklov Mathematical Institute, Moscow)

Date : December 3, 2007 (Monday)

Time : 16:30 - 17:30

Place : Room 14-201, 2nd Floor, Bldg.14
Faculty of Science and Technology
KEIO University

On classification of arithmetic hyperbolic reflection groups

Finiteness of the number of arithmetic hyperbolic reflection groups was established in full generality in 2006. E.g., see math.AG/0609256 .

Recently, I found explicit bounds for degree (over Q) of ground fields of these groups in dimensions at least 3. See arXiv: 0708.3991, 0710.0162, 0710.2340. This implies a principal possibility to get an effective, finite classification of these groups in all dimensions together (they don't exist in dimension greater than 29). This would be important for K3 and other algebraic varieties, and for hyperbolic (Borcherds) Kac-Moody Lie algebras.

問合わせ先: 慶應義塾大学21世紀COEプログラム　統合数理科学　渉外担当
横浜市港北区日吉３-14-1　Tel：045-566-1442　Fax：045-566-1768
e-mail：ogata@math.keio.ac.jp　URL：http://coe.math.keio.ac.jp