Groups and symmetries: From the Neolithic Scots to John McKay April 27 - 29, 2007

Colloque CRM-ISM Colloquium Counting rational points and rational curves: from Waring's problem to quantum cohomology

Yuri Manin

manin@mpim-bonn.mpg.de Max-Planck-Institut fuer Mathematik Vivatsgasse 7 Bonn, NRW 53111 Germany

Abstract

I will explain some results, constructions, and conjectures of the last two decades, motivated by number theory and quantum string theory respectively, whose common theme is: counting rational points/rational curves on algebraic varieties.