

Pathways Lecture Series in Mathematics, KEIO



Speaker : Prof. Thomas Geisser (University of Southern California)

Lecture 1 16:30 ~ 17:30 October 6, 2006 (Friday) Place: 14-203 (Seminar Room 3), Yagami Campus Lecture 2 16:30 ~ 17:30 October 12, 2006 (Thursday) Place: 14-203 (Seminar Room 3), Yagami Campus Lecture 3 16:30 ~ 17:30 October 13, 2006 (Friday) Place: 12-207, Yagami Campus

Lecture 4 16:30 ~ 17:30 October 20, 2006 (Friday) Place: 14-203 (Seminar Room 3), Yagami Campus

Algebraic cycles and special values of zeta-functions

Given a system polynomial equations X, one can ask for the number of solutions in finite fields. Varying the finite field, this information can be encoded in the zetafunction of X, so understanding the zeta-function leads to information about the number of solutions. A useful method of studying the zeta-function of X is by attaching other invariants, and finding relationships between the zeta-function and these other invariants.

In the first talk we will give a general introduction to zeta-functions and formulas for the zeta-function at integers (which can be thought of as an analog of the class number formular for the Rieman zeta function). We will then discuss higher Chow groups, Weil-etale cohomology groups, and formulas for special values of zeta-functions.



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: igarashi@math.keio.ac.jp URL: http://coe.math.keio.ac.jp