

Taniguchi Conference on Mathematics Nara '98

DATE: December 15–20, 1998

PLACE: the Nara Prefectural Cultural Hall, Nara, Japan

PROGRAM:

December 15 (Tuesday)

- 10:30 – 11:30 **R. E. Borcherds**
Vertex algebras
- 11:50 – 12:50 **M. Kontsevich**
Non-commutative algebraic manifolds
- 14:30 – 15:30 **K. Fukaya**
Lagrangian submanifolds and mirror symmetry
- 18:00 – 20:00 **P.-L. Lions**
On some mathematical problems in fluid mechanics

December 16 (Wednesday)

- 10:00 – 11:00 **K. Saito**
Infinite dimensional Lie algebras and their L -functions arising from weight systems
- 11:30 – 12:30 **M. Kashiwara**
Micro-localization and contact transforms
- 14:30 – 15:30 **J. Kollar**
The topology of real and complex algebraic varieties
- 16:00 – 17:00 **S. Mochizuki**
The intrinsic Hodge theory of p -adic hyperbolic curves

December 17 (Thursday)

- 10:00 – 11:00 **S. Mori**
Rational curves on algebraic varieties – a survey and problems
- 11:30 – 12:30 **G. Lusztig**
Representation theory in characteristic p

December 18 (Friday)

- 10:00 – 11:00 **M. Furuta**
Spin structure of 4-dimensional manifolds
- 11:30 – 12:30 **K. Kato**
Bloch's conductor formula and p -adic epsilon elements