MRI

MATHEMATICAL RESEARCH INSTITUTE

The Netherlands

Master Class

2006/2007

SYMPLECTIC GEOMETRY AND BEYOND

FIRST SEMESTER
> **Symplectic geometry** (G. Heckman)
> **Lie groups** (I. Moerdijk)
> **Foliation theory** (E. van den Ban)
> **Seminar on Lie algebroids and groupoids** (various speakers)

SECOND SEMESTER
> **Poisson geometry** (M. Crainic)
> **Quantization** (N.P. Landsman)
> **Equivariant cohomology and momentum maps** (J.J. Duistermaat)
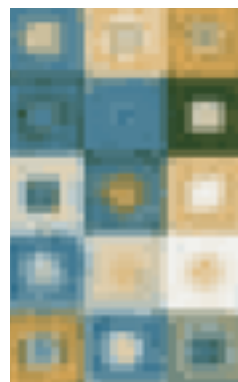> **Seminar** (various speakers)

LOGIC

FIRST SEMESTER
> **Recursion Theory/Proof Theory** (A. Weiermann)
> **Model Theory** (W. Veldman)
> **Typed Lambda Calculus** (H. Barendregt)
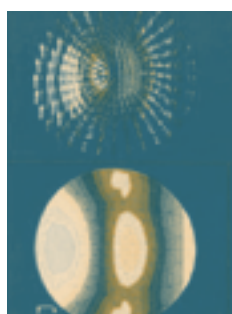> **Seminar: Category Theory** (I. Moerdijk, J. van Oosten)

SECOND SEMESTER
> **Arithmetic** (A. Visser)
> **Type Theory and Proof Assistants** (H. Geuvers, B. Spitters)
> **Topos Theory** (I. Moerdijk, J. van Oosten)
> **Seminar: Constructivism** (W. Veldman, B. Spitters)

Spring School

2006

ABELIAN VARIETIES

The lecture topics include:
> General Theory of Abelian Varieties
> Abelian Varieties over C
> Abelian Varieties over Finite Fields
> The Mordell-Weil Theorem for Abelian Varieties
> Rational points over finite fields
> Moduli of Abelian Varieties
> Jacobian Varieties

Lecturers include: **Ching-Li Chai*, Gunther Cornelissen, Bas Edixhoven, Gerard van der Geer, Adrian Iovita*, Ben Moonen, Frans Oort, Jaap Top. * to be confirmed.**

The Spring School takes place at Utrecht University during the period 2 May- 24 May (2006) and will be concluded by a Workshop on Abelian Varieties, to be held at the University of Amsterdam on 29-30-31 May 2006.
More information can be found at: **www.science.uva.nl/~bmoonen/springsch/ SprSch.html.**

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More information can be found in the 2006/2007 Master Class brochure or at **http://mri.math.uu.nl/.**

Participating in the MRI are the mathematical departments of the universities of Groningen, Nijmegen, Twente and Utrecht.

The final date for applications to the Spring School and Master Class is: **January 15th, 2006** for applicants requiring a stipend/ fellowship and/or applicants requiring an entrance visa for The Netherlands.

All other applicants must apply before **April 1st, 2006.**