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Japanese Alps

## Symposium

### Singularités en Géométrie et Topologie

Quatrième Congrès Franco-Japonais en Singularités

Toyama, 27 - 31 août, 2007

幾何学とトポロジーにおける特異点

第4回 日仏特異点シンポジウム

富山 2007年8月27日 - 31日

### Singularities in Geometry and Topology

Fourth Franco-Japanese Symposium on Singularities

Toyama, August 27 - 31, 2007

The conference is supported  
by JSPS and CNRS,  
partially by Hokudai COE.



## News

- The list of speakers has been renewed (May 24).
- [POSTER](#) (pdf file) is available.
- [Registration Page](#) was modified.
- Niigata workshop will be held in Aug. 20 -- Aug. 24 (go to [Info.](#)).

Past FJ: 1st (Sapporo, 1998) [2nd \(Luminy, 2002\)](#) [3rd \(Sapporo, 2004\)](#)



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## Committees

### Organizing committee:

Michel Vaquié (Toulouse)  
Jean-Paul Brasselet (Marseille)

Shihoko Ishii (Tokyo Inst. Tech.)  
Tatsuo Suwa (Niigata)  
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## Main topics

Geometry and topology of singularities

Jet schemes, arc spaces

Characteristic classes of singular varieties

Singularities of plane curves and fundamental groups

Local uniformization, resolution of singularities, valuations



## Program

August 27 (Monday)

09:00 -- 09:30 Opening ceremony

09:40 -- 10:40 K. Saito

The triangulated categories associated with regular systems of weights

11:00 -- 12:00 M. Vaquié

Approximate valuations and Newton polygon

14:00 -- 15:00 T. Yasuda

Flattening of Frobenius and G-Hilbert scheme

15:20 -- 16:20 P. Cassou-Nogues

Polytopes of quasiajunction and applications

16:40 -- 17:40 K. Matsuki

The Kawanoue program: an approach toward resolution of singularities  
in positive characteristic

before dinner Welcome Wine Party

August 28 (Tuesday)

09:40 -- 10:40 A. Bodin

Integer points on generic fibers

11:00 -- 12:00 A. Reguera

The stable points of the space of arcs: properties and applications

14:00 -- 15:00 M. Merle

Nearby motivic cycles, convolution and composition with a two variable function

15:20 -- 16:20 C. Plenat

The Nash problem of arcs

16:40 -- 17:40 S. Ishii

Smoothness criteria by jet schemes

August 29 (Wednesday)

09:40 -- 10:40 M. Ishikawa

On real analytic germs and contact structures

11:00 -- 12:00 N. A'Campo

Homotopic monodromy and arc spaces

14:00 -- 20:00 Short Excursion to Etchu-Yatsuo

August 30 (Thursday)

09:40 -- 10:40 A. Degtyarev

Zariski k-plets via dessins d'enfants

11:00 -- 12:00 I. Shimada

Non-homeomorphic conjugate complex varieties

13:45 -- 14:45 H. Tokunaga

Triple covers of algebraic surfaces and a generalization of Zariski's example

15:00 -- 16:00 C. Eyrat

On Zariski's multiplicity conjecture

16:15 -- 16:35 M. Shubladze (short communication)

Topology of non-isolated hyperplane singularities

16:50 -- 17:50 M. Oka

Geometry of pencil of curves via Taylor expansions

19:00 -- 21:00 Birthday Party

August 31 (Friday)

09:30 -- 10:30 N. Dutertre

A Gauss-Bonnet formula for closed semi-algebraic sets

10:50 -- 11:50 J. Schürmann

Motivic characteristic classes for singular spaces

13:30 -- 14:30 F. Loeser

Some applications of non-archimedean geometry to singularities

14:45 -- 15:45 M. Spivakovsky

On the local uniformization theorem in arbitrary characteristic

16:00 -- 17:00 H. Hironaka

Some new techniques on general singularities

September 1 (Saturday)

08:30 -- 14:20 Excursion to Tateyama