

Preface

This volume collects original or survey papers on Singularities in Geometry and Topology, which resulted from the 6th Franco-Japanese Symposium on Singularities, held in Fukuoka, during September 5–10, 2011. This followed the 5th Franco-Japanese Symposium held in Strasbourg in 2009.

Though singularity theory was born in the XIXth century, this field of research became more popular in France after Prof. Heisuke Hironaka came to Paris. Then, a lot of collaborations between Japanese and French mathematicians started and the conferences on Singularities in Geometry and Topology continue to develop this collaboration between France and Japan.

We note that all the papers in this volume have been carefully refereed.

At first, we were going to organize a Kagoshima Satellite Conference before or after the Fukuoka Symposium, but the situation changed after the March 11 disaster which hit the Tohoku region in Japan and caused a serious nuclear power plant accident in Fukushima. Therefore, we decided to cancel the Kagoshima Satellite Conference.

At this occasion, we would like to express our deepest sympathy to those affected by the terrible earthquake and tsunami that devastated the Tohoku region in Japan in March, 2011.

In spite of the disaster, for the Fukuoka Symposium, we had 90 participants in total, including 9 from France and additional 12 from other countries. The talks covered a broad range of geometry and topology of singularities. In particular, we had a talk by Prof. Heisuke Hironaka on resolution of singularities in positive characteristics. We also organized a poster session for young participants, and there were 11 posters presented.

During the Fukuoka Symposium, we had several important events. One was the GDRI inauguration ceremony. GDRI represents a CNRS international network project in singularity theory. The programs on September 5 (Mon) and September 8 (Thu) were respectively dedicated to the birthdays of Prof. Heisuke Hironaka and Prof. Shihoko Ishii. We also celebrated them at the occasion of the banquet on Thursday. On Saturday, we organized an excursion to Yanagawa city and we all enjoyed a boat ride traveling inside the old town.

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especially by JSPS KAKENHI Grant Number 23244008, Centre National de la Recherche Scientifique (CNRS), Inoue Foundation for Science, and Kyushu University Global COE Program, Education-and-Research Hub for Mathematics-for-Industry. In particular, this was part of the Japan-France Research Cooperative Program (Joint Seminar), and GDRI, France-Japan-Vietnam Network in Singularity Theory. We would like to thank all these organizations for their financial support. We would also like to thank Fukuoka Convention & Visitors Bureau for its kind assistance.

Many of the secretarial stuffs and students of Kyushu University also helped the organization of the meeting. We would like to thank them all for their devoted help.

Some data follow:

Organizing committee: Osamu Saeki (Kyushu)*, Shoji Yokura (Kagoshima)*, Toru Ohmoto (Hokkaido)*, Takahiro Yamamoto (Kyushu Sangyo)‡, Takehiko Yasuda (Kagoshima)‡, Vincent Blanlœil (Strasbourg)*, Jean-Paul Brasselet (Marseille)*, Anne Pichon (Marseille)*.

* : Editors of this volume, ‡ : Local organizers

Scientific Committee: Shihoko Ishii (Tokyo), Mutsuo Oka (Tokyo Sci.), Tomohiro Okuma (Yamagata), Kiyoshi Takeuchi (Tsukuba), Alexandru Dimca (Nice), Bernard Teissier (Paris), Michel Vaquié (Toulouse).

Home Page: http://www.math.sci.hokudai.ac.jp/~fj_singularities/FJ2011/index.html

These important activities are continuing: the 7th Franco-Japanese Symposium on Singularities (The 1st Franco-Japanese-Vietnamese Symposium on Singularities) was already held during September 16–20, 2013, in Nice, France.

<http://math.unice.fr/~parus/colloque3an.html>

Looking forward to seeing further developments of singularity theory, especially related to geometry and topology,

Chief Editors,
Vincent Blanlœil and Osamu Saeki

All papers in this volume have been refereed and are in final form. No version of any of them will be submitted for publication elsewhere.