SURGERY AND GEOMETRIC TOPOLOGY

ANDREW RANICKI AND MASAYUKI YAMASAKI, EDITORS

Proceedings of a conference held at Josai University
Sakado, September 1996

Contents

Foreword

As the second of a conference series in mathematics, Josai University sponsored the Conference on Surgery and Geometric Topology during the week of September 17 – 21, 1996. The scientific program consisted of 13 lectures, listed below, and there was an excursion to Takaragawa, Gunma on the 21st.

This volume collects papers by participants, as well as some of the abstracts prepared by the lecturers for the conference. The articles are also available electronically on WWW from:

`http://math.josai.ac.jp/~yamasaki/conference.html`

at least for several years.

We would like to thank Josai University, and Grant-in-Aid for Scientific Research (A)(1) of the Ministry of Education, Science, Sports and Culture of Japan, for their generous financial support. Thanks are also due to the university staff for their various support, to the lecturers and to the participants of the conference.

Andrew Ranicki
(Edinburgh, Scotland)
Masayuki Yamasaki
(Sakado, Japan)
December, 1996

Program of the Conference

Surgery and Geometric Topology

Sakado, Saitama

September 17, Tuesday

10:00 – 11:20 **Andrew Ranicki**
Chain Duality.

13:20 – 14:40 **Erik Pedersen**
Simplicial and Continuous Control

15:00 – 16:20 **Toshiyuki Akita**
Cohomology and Euler Characteristics of Coxeter Groups

September 18, Wednesday

10:00 – 11:20 **Frank Quinn**
Problems with Surgery and Handlebodies in Low Dimensions

13:20 – 14:40 **John Roe**
Surgery and Operator Algebras

15:00 – 16:20 **Tsuyoshi Kato**
The Asymptotic Method in the Novikov Conjecture

16:30 – 17:20 **Eiji Ogasa**
On the Intersection of Spheres in a Sphere

September 19, Thursday

10:00 – 11:20 **Bruce Hughes**
Stratified Spaces and Approximate Fibrations

13:20 – 14:40 **Francis Connolly**
An End Theorem for Manifold Stratified Spaces

15:00 – 16:20 **Tatsuhiko Yagasaki**
Infinite-dimensional Manifold Triples of Homeomorphism Groups

September 20, Friday

10:00 – 11:20 **Yongjin Song**
The Braid Structure of Mapping Class Groups

13:20 – 14:40 **Masaharu Morimoto**
On Fixed Point Data of Smooth Actions on Spheres

15:00 – 16:00 **Masayuki Yamasaki**
Epsilon Control and Perl

List of Participants

(The numbers correspond to the keys to the photograph on page xi.)

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