

UNIVERSITY OF IOANNINA  
DEPARTMENT OF MATHEMATICS

ΠΑΝΕΠΙΣΤΗΜΙΟ ΙΩΑΝΝΙΝΩΝ  
ΤΜΗΜΑ ΜΑΘΗΜΑΤΙΚΩΝ

SUMMER SCHOOL IN IOANNINA

“Interactions between Algebraic Topology and Invariant  
Theory”

A SATELLITE CONFERENCE  
OF THE THIRD EUROPEAN CONGRESS OF MATHEMATICS

26 - 30 JUNE 2000 IOANNINA, GREECE

PROCEEDINGS

Nondas E. Kechagias Editor

H. E. A. Campbell, *Modular Invariant Theory*

F. R. Cohen, *Algebraic Topology*

L. Smith, *Invariant Theory*

R. M. W. Wood, *Hit problems and the Steenrod algebra*

Number 3, Special Volume, December 2000



## FOREWORD

An international Summer School was held at the University of Ioannina, from June 26 to June 30 2000, as a satellite conference of the European Congress of Mathematics during summer 2000.

The theme of the School was "*Interactions between Algebraic topology and Invariant Theory*" and the aim to enrich and strengthen research relations among young researchers working on algebraic topology, invariant theory, and related areas. The program employed to accomplish our objectives was by short courses given by leading experts in these fields and problem sessions where common problems and research methods were recognized and demonstrated on particular research projects.

Four mini courses were delivered by:

H. E. A. Campbell, *Modular Invariant Theory*;

F. R. Cohen, *Algebraic Topology*;

L. Smith, *Invariant Theory*;

R. M. W. Wood, *Hit problems and the Steenrod algebra*.

We thank all the participants who undoubtedly contributed to the success of the event and the speakers for their effort in the preparation of their lectures and these notes. We also thank Fred Cohen and Larry Smith who worked very hard for organizing such an excellent scientific program. Special thanks to Fred Cohen for his encouragement and smooth handle of various aspects during the preparation of the school and Reg Wood for replacing Said Zarati at the last moment.

We want to express our gratitude to the University of Ioannina and in particular all members of the Section of Algebra and Geometry in the Department of Mathematics for their continuing encouragement and support. We will not mention internal or external bureaus or committees, which did not respond, but we will mention the great support we received from the Greek General Secretariat for Research and Technology, Ministry of Education and Religious Affairs (ΕΠΕΑΕΚ), and Prefecture of Ioannina. Without them, that event would not have taken place.

Nondas Kechagias  
December, 2000  
Ioannina.

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