

## Preface

The present volume is the Proceedings of the International Conference “Algebraic Geometry in East Asia, II” which was held at the Conference Hall (Hanoi, Vietnam), during October 10th – October 14th, 2005. There were about 50 participants who came from six countries: Vietnam, P. R. China, Korea, Japan, Russia and France, and 24 invited lectures were presented during the period of the conference. It was supported by Hanoi Institute of Mathematics, Grants-in Aid for Scientific Research by JSPS, ICTP, ARC-VNC, Spect Project.

The first conference under the same name was held in International Institute for Advanced Studies (Kyoto, Japan) in 2001 and this is the second meeting. One of our primary goals was to facilitate a chance to meet and exchange ideas among east Asian mathematical communities of algebraic geometry. Thanks to the active cooperations of all participants, we are quite confident that our aim was successfully achieved. We hope that this conference will continue to have a positive impact on the future relations among algebraic geometers in east Asia.

As the reader can see from the list of articles appearing in this volume, quite a number of different topics were touched upon. Some of those are: Zariski pairs, rational homogeneous manifolds, Kummer surfaces, arc spaces, Cremona groups, algebraic curves and dual varieties.

The book consists of two parts. The first part is devoted to the survey articles each of which provides the summary on the current status of research and gives a scope to the future, pointing out problems which deserve to be studied. The second part consists of the research articles showing various aspects of researches, methods and techniques, as well as the activity of our leading algebraic geometers.

During the conference, staffs and students in Hanoi Institute of Mathematics helped us. On behalf of the organizers, we wish to express our hearty thanks to all invited speakers for their interesting talks, and to all participants for their stimulating discussions and the warm response to the conference.

Osaka, October 2007  
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*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.*