

2005 Summer Research Institute— Algebraic Geometry

University of Washington
Seattle, Washington
July 25–August 12, 2005

The forty-fourth Summer Research Institute sponsored by the American Mathematical Society will be devoted to algebraic geometry and will be held at the University of Washington, Seattle, Washington, July 25–August 12, 2005. The members of the Organizing Committee are Aaron Bertram, University of Utah; Dan Abramovich, Brown University; Ludmil Katzarkov, University of California Irvine; and Rahul Pandharipande, Princeton University.

It is anticipated that the institute will be partially funded by a grant from the National Science Foundation and perhaps others. Support will primarily be given for travel and subsistence to young researchers, women, minorities, and other underrepresented groups. Other participants who wish to apply for support funds should so indicate; however, available funds are limited, and individuals who can obtain support from other sources are encouraged to do so. Funding is contingent upon a grant from the National Science Foundation.

The goal of the three-week institute is to review major achievements in and around algebraic geometry in the past decade and bring the attendants to the forefront of the relevant subjects. The three weeks will be roughly focused respectively on

- interactions with physics (M-theory, Gromov-Witten theory...)
- classical geometry (birational geometry, Hodge theory...)
- arithmetic geometry and related topics (geometric Langlands, Motivic integration...).

The institute will be generally modeled on the 1995 Summer Research Institute held at the University of California Santa Cruz, with plenary lecture series in the mornings and seminar series in the afternoons. A new feature will include special lectures sponsored by the Clay Institute.

All persons who are interested in participating in the institute should request an invitation by sending the following information to Summer Institute Coordinator, AMS, P.O. Box 6887, Providence, RI 02940, or by email to rha@ams.org no later than **March 4, 2005**. Please type or print the following:

1. Title and dates of conference.
2. Full name.
3. Mailing address.
4. Phone numbers (including area code) for office, home, and fax.

5. Email address.
6. Your anticipated arrival/departure dates.
7. Scientific background relevant to the institute topic; please indicate if you are a student or if you received your Ph.D. on or after 7/1/98.
8. The amount of financial assistance requested (or indicate if no support is required).

Please note that all potential participants, whether or not requesting support, should solicit an invitation from the AMS by the indicated deadline. All requests will be forwarded to the organizing committee for consideration. In late April applicants selected by the organizing committee will receive formal invitations (including specific offers of support if applicable), a brochure of conference information, program information known to date, along with information on travel and local housing. Participants will be required to pay a small conference fee.

Questions concerning the scientific program should be addressed to the organizers. Questions of a nonscientific nature should be directed to the Summer Research Institute coordinator at the address provided above. Please watch <http://www.ams.org/meetings/> for future developments about this institute.