

**PROCEEDINGS
of the
Research Experiences for Undergraduates
Program in Mathematics**

**Oregon State University
Summer 2011**

**Directed by
Holly Swisher**

This volume contains the Proceedings of the Research Experiences for Undergraduates Program held at the Mathematics Department of Oregon State University during the summer of 2011. This program was funded by the National Science Foundation and by Oregon State University. The Provost's Office, the Research Office, the College of Engineering, the College of Science, the Mathematics Department and the School of Electrical Engineering and Computer Science provided the funding from Oregon State University. Holly Swisher of the Mathematics Department directed the program. Holly Swisher, Yevgeniy Kovchegov, and Nick Michalowski of the Mathematics Department together with Glencora Borradaile and Paul Cull of the School of Electrical Engineering and Computer Science were faculty advisors on the research projects undertaken by the student participants. There were ten undergraduate participants in the program. The papers summarizing the research projects are listed below. The participants were:

Mary Ambrosino	The College of New Jersey	Emily Carlson	Bard College
Ben Cornelis	University of British Columbia	Michael Donatz	Oregon State University
Jennifer Iglesias	Harvey Mudd College	Nicole Marsaglia	University of Oregon
Patrik Nabelek	Oregon State University	Antonio Ochoa	Cal Poly Pomona
Tselil Schramm	Harvey Mudd College	Sangpo Sherpa	MIT

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