Pacific Institute *for the* Mathematical Sciences
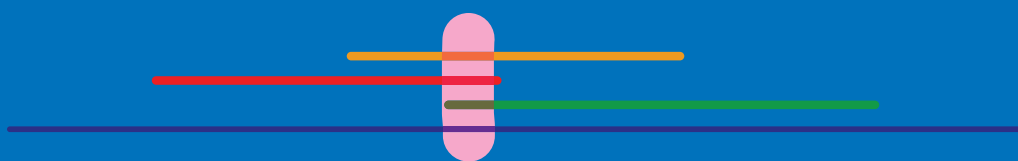
2016 Hugh Morris Lecture

Voting in Agreeable Societies

Francis Su
Harvey Mudd College
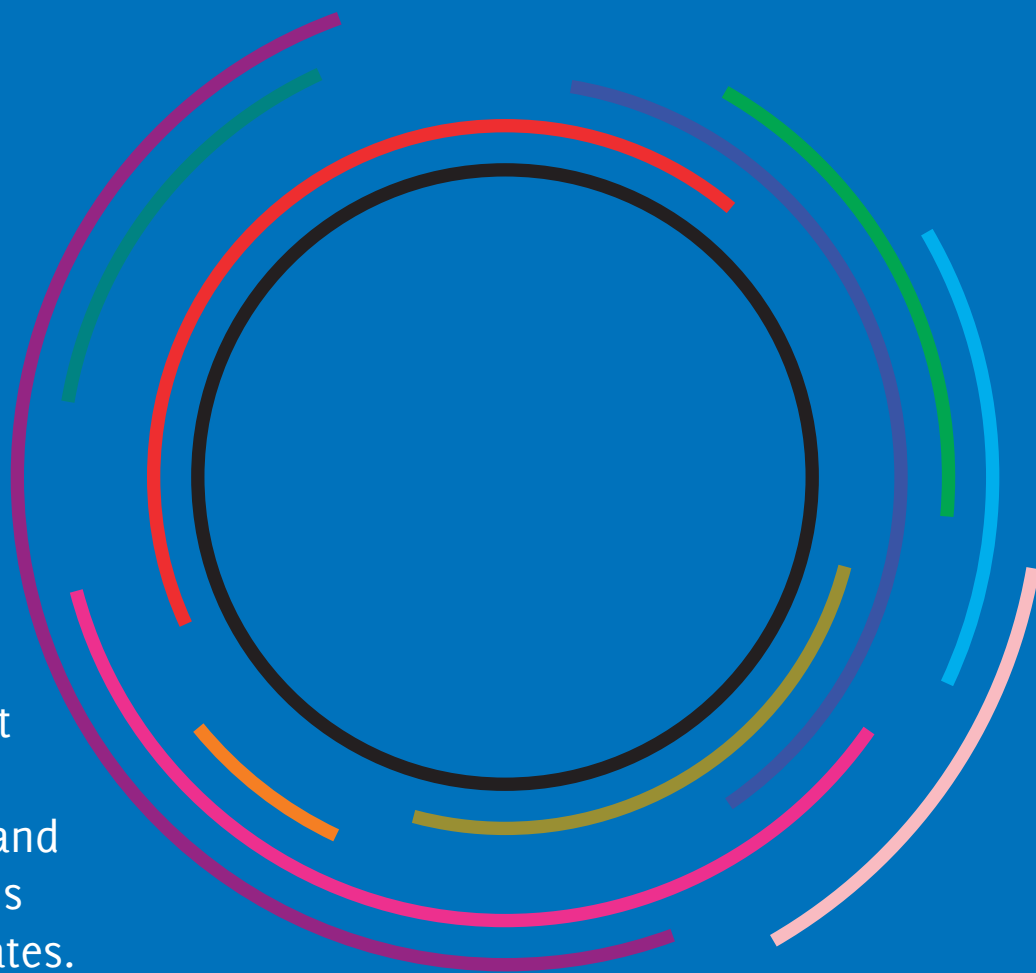President of the Mathematical Association of America

September 29, 2016

University of Victoria
Bob Wright Centre, room B150
6:30 pm

When does a majority exist? How does the geometry of the political spectrum influence the outcome? What does mathematics have to say about how people behave? When mathematical objects have a social interpretation, the associated results have social applications. We will show how some classical mathematics about the geometry of sets and their intersections can be used to model people's preferences and understand voting in *agreeable* societies. This talk also features research with undergraduates.

This PUBLIC LECTURE is open to the university community and beyond, with a special invitation to high school students and educators. Please distribute widely!