

BAMA

School Year 2013—2014
Join us for a free talk...

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Richard Scott

Cayley Graphs and Hypercubes



San Jose State University*
Engineering Building, Rm. 189

7:30 pm
Wednesday, March 5, 2014

The notion of symmetry in mathematics is encoded in an algebraic object known as a group. In the 1870's Arthur Cayley described a visual way to represent a group in terms of an "edge-labeled graph", i.e., a collection of points connected by colored line segments. A standard example of a Cayley graph is a wire-frame model of an n -dimensional (hyper)cube with edges colored so that parallel edges all have the same color. In this talk we shall explore some other Cayley graphs and, in particular, see if any arise from different colorings of the hypercube.

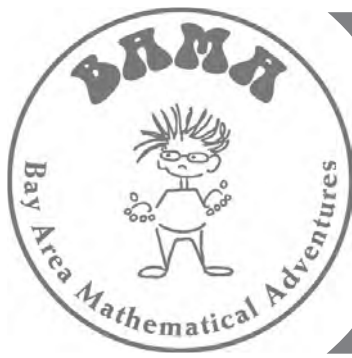
Richard Scott is a Professor of Mathematics at Santa Clara University. His favorite subjects are topology and group theory, but he also likes other obscure things like bluegrass guitar and inline skating.



* See back for map and directions.

Visit the Bay Area Mathematical Adventures (BAMA) at <http://mathematicaladventures.org>

To receive email notifications about BAMA talks, please contact Frank Farris at ffarris@scu.edu.



BAMA

Bay Area Mathematical Adventures

A series of presentations on diverse topics by remarkable mathematicians. All talks are free and open to the public.

WHY?

BAMA aims to challenge and motivate students to think mathematically. Speakers will present real mathematics, and will share with the audience modern views of mathematics. Some talks will provide students with related problems, or will enable teachers to expand later on the topics with their students.

WHO?

BAMA is aimed at bright high-school age students. However, all are welcome: younger or older students, teachers, parents, and the general public.

WHEN?

Evening talks will be given approximately once a month between September and April. Each talk will be self-contained (speakers will not assume their audiences have attended previous talks).

WHERE?

San Jose State University Engineering Building, Rm 189

- From 101 take the First Street or Guadalupe Expressway exit and go to Fourth Street.
- Take Fourth to San Salvador Street; turn left onto San Salvador Street. The garage is on the left side of the street.
- From 280 take the 7th Street exit and turn North on Seventh St. The garage is on the left after 5 or 6 blocks.



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