



The Math/Stats Colloquium  
Department of Mathematics and Statistics  
San José State University



**Kasia Jankiewicz**

UC Santa Cruz

*Reflections and Coxeter groups*

WED NOV 02, 2022, MH320

**Abstract:** A reflection is a symmetry where the image of any shape is its “mirror image”. We will analyze how two or more different reflections interact, and we will consider the collections of all symmetries generated by those reflections. Such collections of symmetries have an algebraic structure of a group. Coxeter groups are abstract generalizations of reflection groups. In this talk, I will present some examples of Coxeter groups and describe some questions about Coxeter groups that I consider in my research.

*Background:* Familiarity with the notion of a group is useful, but the majority of the talk should be accessible without it.

**About the speaker:** Kasia Jankiewicz has received her PhD from McGill University, and is an Assistant Professor at the University of California Santa Cruz. Her research is in geometric group theory.

SNACKS SERVED OUTSIDE BETWEEN MACQUARRIE HALL AND  
SWEENEY HALL AT 2:40PM (WEATHER PERMITTING)  
TALK STARTS AT 3:00PM

For more information, see our full schedule at:

<http://www.timhsu.net/colloq/>