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

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Curves in the Genus 2 Surface

April 24, 2019, MH320

Abstract: Think of a glazed donut. The glaze on the donut, but not the donut itself, is a genus 1 surface, usually called a torus. If we glue two glazed donuts together, side by side, the glaze on this new object is called a genus 2 surface, or sometimes a double torus. As a way to understand knots, we can consider the ways to draw curves on the genus 2 surface. In this talk, I will give a brief introduction to knots and discuss some of the properties that a genus 2 surface can help us understand about them.

Background: No particular background necessary; some linear algebra may come up.

About the speaker: Brandy Doleshal earned her Ph.D. from The University of Texas at Austin, and is an Associate Professor at Sam Houston State University. Her current research is in knot theory.

Snacks in MH331B at 2:30 pm
Talk starts at 3:00 pm

For more information, see our full schedule at:

`http://www.timhsu.net/colloq/`