

BI-CO MATHEMATICS COLLOQUIUM

Teddy Einstein

Swarthmore College

“Groups, Geometry and Small Cancellation”

Monday, October 21, 2024

Talk at 4:15 – Hilles 109

Tea 4:00 – Foyer outside of H109

Abstract:

What do a donut with two holes and a tessellation of a disk by octagons have in common? In this talk, we will answer this question, explain how to study the symmetries of such a tessellation, and see how these ideas relate to the topology and geometry of surfaces. As time permits, we will explore some more modern applications of these ideas. No knowledge of topology or group theory will be assumed.

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