

Anisah Nu'Man Ursinus College

## "Geodesic words for groups and formal language theory"

Monday, April 2, 2018 Talk at 4:00 – H109 Tea at 3:30 – Foyer outside of H109

## Abstract:

Given a finitely presented group *G* with generating set *S*, we can consider the shortest paths in its Cayley graph. Theses shortest paths are called geodesics, and can give rise to geodesic words with respect to the generating set *S*. We will investigate cases when the geodesic words form a regular language and special properties of these regular language.

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