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Teresa Arias-Marco, Emily Dryden, Carolyn Gordon, Asma Hassannezhad, Allie Ray*
(allie.ray@trincoll.edu) and **Elizabeth Stanhope**. *Spectral Geometry of the Steklov Problem on Orbifolds*.

An orbifold is a space locally modeled on \mathbb{R}^n/Γ , where Γ is a discrete group acting properly discontinuously on \mathbb{R}^n . We will begin by discussing some classical results about geometric properties of manifolds determined by the Laplace and Steklov spectrum. After introducing the concept of an orbifold, we will then look at how these results transfer (or fail to transfer) to the orbifold setting. One result is that the Steklov spectrum determines the number of singular points on the boundary of a compact 2-dimensional orbifold but does not detect the presence of interior singular points. (Received September 18, 2016)