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Christopher K Atkinson and **David Futer*** (dfuter@temple.edu), Mathematics Department, Temple University, 1805 North Broad St., Philadelphia, PA 19122. *Small volume link orbifolds.*

I will discuss recent investigations of small volume hyperbolic 3-orbifolds whose singular locus is a link. An orbifold of this type naturally arises as the quotient of a 3-manifold under a (nice) group action. Thus, lower bounds on the volume of these orbifolds lead to relations between the volume of a 3-manifold and the size of its symmetry group.

In this talk, I will describe the unique smallest volume link orbifold whose singular locus is a link in the 3-sphere. I will also identify the unique smallest volume link orbifold whose torsion order is n , for all sufficiently large n . (Received February 01, 2013)