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Christopher K Atkinson* (catkinso@morris.umn.edu), University of Minnesota, Morris, Division of Science and Mathematics, 600 E 4th Street, Morris, MN 56267, and **Jessica Mallepalle, Joseph Melby, Shawn Rafalski and Jennifer Vaccaro.** *Guts and volume for a simple family of hyperbolic 3-orbifolds.* Preliminary report.

If a hyperbolic 3-orbifold \mathcal{O} contains an orbifold incompressible 2-suborbifold S , one obtains a lower bound on the volume of \mathcal{O} in terms of the guts of the path metric completion of $\mathcal{O} \setminus S$ by applying work of Agol, Storm, and W. Thurston. For a simple family of hyperbolic 3-orbifolds, we show how to explicitly compute this volume bound in terms of the topology of a incompressible 2-suborbifold and the singular locus of the orbifold. (Received August 29, 2016)