

1070-57-264

**Christopher K. Atkinson\*** ([ckatkin@temple.edu](mailto:ckatkin@temple.edu)), Department of Mathematics, Wachman Hall, 1805 N. Broad St., Philadelphia, PA 19106. *Geometry and topology of polyhedral 3-orbifolds.*

We will describe the geometric decomposition of polyhedral 3-orbifolds. We will show how this decomposition can be detected algorithmically and how it can be applied to yield lower volume bounds for hyperbolic polyhedral orbifolds. (Received February 14, 2011)