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Ilesanmi Adeboye* (adeboye@math.ucsb.edu), Department of Mathematics, South Hall, Room 6607, University of California, Santa Barbara, CA 93106. *On volumes of hyperbolic orbifolds.*

One notable aspect of the study of covolumes of Kleinian groups is the variety in the techniques that have been brought to bear. In this talk, we show how revisiting H. C. Wang's results on discrete subgroups of Lie groups, plus a little differential geometry, leads to an explicit lower bound for the volume of a hyperbolic orbifold in any given dimension. This is joint work with Guofang Wei. (Received February 22, 2010)