1046-53-583   **Frank Morgan*** (`Frank.Morgan@williams.edu`), Department of Mathematics and Statistics, Williams College, 18 Hoxsey Street, Williamstown, MA 01267. *Isoperimetric balls in cones over tori.*

In the cone over a cubic three-torus T^3, balls about the vertex are isoperimetric if the volume of T^3 is less than pi/16 times the volume of the unit three-sphere. The conjectured optimal constant is 1. (Received September 08, 2008)