

1072-51-145

Nina Juliana White* (whitenj@umich.edu). *Bounds on eigenvalues of the Laplacian for certain hyperbolic 3-manifolds.*

I'll sketch a proof of the following: in the presence of bounds for the rank of the fundamental group and the injectivity radius, the k th eigenvalue of the Laplacian of a closed hyperbolic 3-manifold M is bounded from above and below by a multiple of $\text{vol}(M)^{-2}$. (Received June 26, 2011)