

1131-57-98

Michelle Chu* (mchu@math.utexas.edu). *Special subgroups of Bianchi groups*. Preliminary report.

Every cusped arithmetic hyperbolic 3-manifold is commensurable to the quotient of \mathbb{H}^3 by a Bianchi group. The Bianchi groups are the groups $\mathrm{PSL}_2(\mathcal{O}_d)$ where \mathcal{O}_d is the ring of integers in the imaginary quadratic field $\mathbb{Q}(\sqrt{-d})$. Recently there has been interest in determining special subgroups of 3-manifold groups. For the Bianchi groups, we explicitly determine special congruence subgroups. (Received July 06, 2017)