

1070-57-242

Genevieve S. Walsh* (genevieve.walsh@gmail.com). *Some cubed hyperbolic 2- and 3-manifolds.*

Given a Coxeter group with defining graph a triangulation of an $(n-1)$ -sphere, we produce an n -manifold with an underlying cubed structure, which naturally sits in a higher-dimensional Euclidean space. We explore the ramifications when n is 2 or 3. Here, given simple conditions on the defining graph, the manifold is hyperbolic. This is joint work with Sam Kim. (Received February 14, 2011)