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David Hume* (hume@maths.ox.ac.uk). *Direct embeddings of relatively hyperbolic groups with optimal ℓ^p compression exponent.*

We present direct methods for embedding hyperbolic and tree-graded simplicial graphs with bounded geometry into ℓ^p spaces and describe how such constructions can be adapted to the case of asymptotically tree-graded simplicial graphs with bounded geometry. (Received December 05, 2011)