

# **Low-distortion embeddings of graphs with large girth**

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The main purpose of the talk is to present a construction of a sequence of  $k$ -regular graphs,  $k > 2$ , with indefinitely growing girths admitting embeddings into  $L_1$  with uniformly bounded distortions. This result solves the problem posed by N. Linial, A. Magen, and A. Naor (2002).