

The Energy of Ramanujan Graphs

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Although it is currently an abstract graph invariant, the energy of a graph is defined to be the sum of the absolute value of its eigenvalues. Ramanujan graphs are important as they form the most explicitly described family of expander graphs. We explore the possibilities of Ramanujan graphs being hyper-energetic and hypo-energetic, and talk about the energy of certain other families of graphs.

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